HC CAR GO

Your Expert in Parts

# STARTER & DYNASTARTER COMPONENTS

## 2017-2019

# HC-CARGO Always Online

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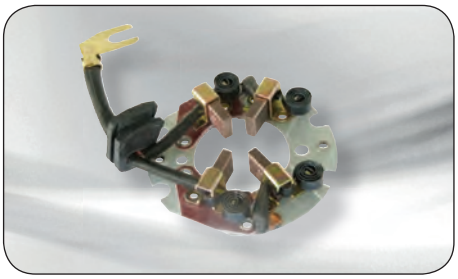
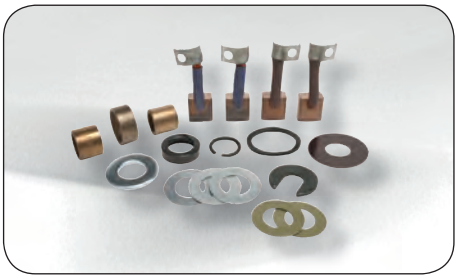
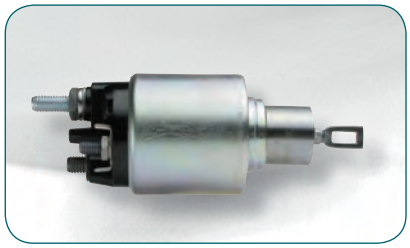
# STARTER & DYNASTARTER COMPONENTS

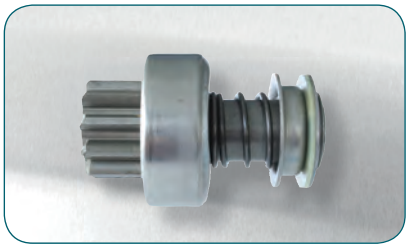


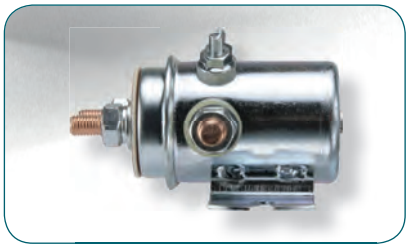


**Edition 2017-2019**

ISO 9001
BUREAU VERITAS
Certification





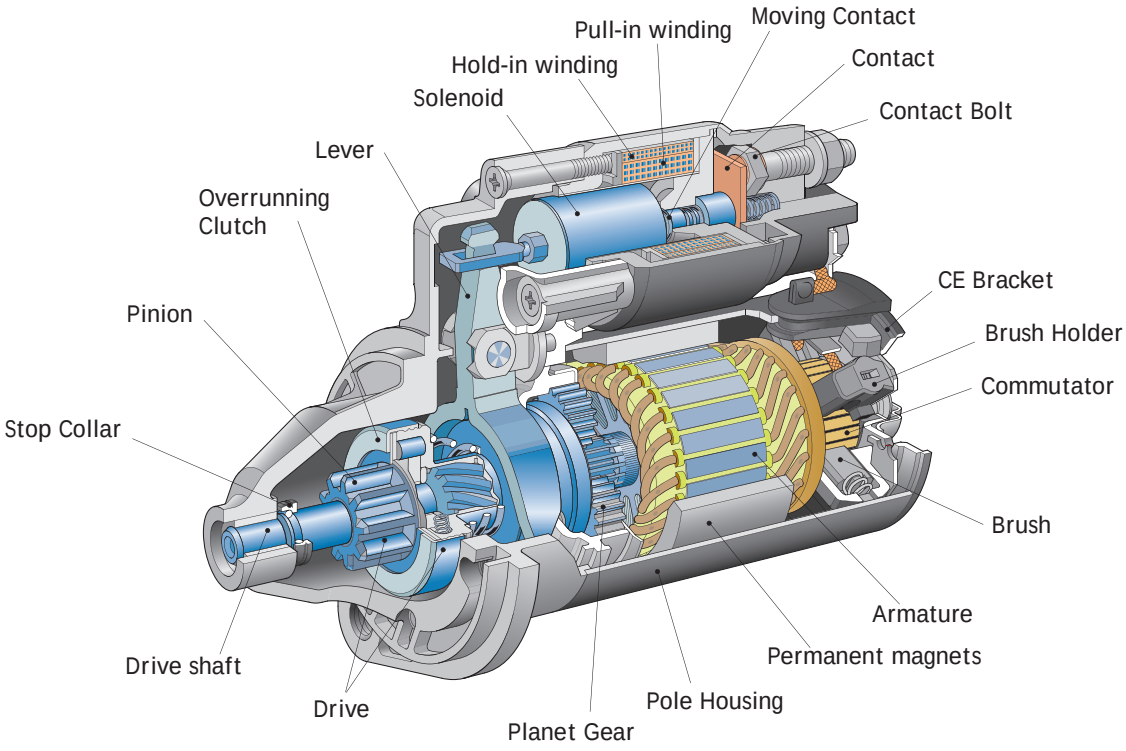


## HC-CARGO Spare Parts program – All you need

- High market coverage = all relevant parts for starter and alternators
- More than 14.000 numbers
- More than 1.000 OE Spare Parts
- HC-CARGO Spare Parts are used in production of leading reman brands
- HC-CARGO Spare Parts are also available on TecDoc

We stock an extensive range of starter parts like solenoids, bearings, brush gears, drives, armatures and other parts used for repairing starters.
Most spare part dealers offer only specialized programs. We have decided to have a broad product range to meet the demands of customers in the best possible way.

We continuously strive for extending the program to offer the most comprehensive solution whether it is a simple replacement of a complete unit or a spare.
You can always see an up-to-date and complete program by using our web catalogue at www.hc-cargo.com
This catalogue also includes a complete cross reference list.
With the HC-CARGO program, you have a one-stop-supplier opportunity for parts for units.



## HC-CARGO Bearings

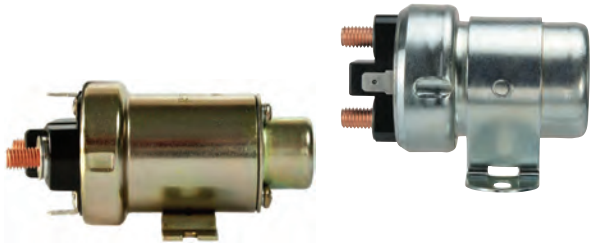
HC-CARGO high performance bearing are developed to meet the requirements for the new generation of start/stop starters and high performance alternators which require a bearing covering the challenge of high temperature resistance and long lifetime.
The HC-CARGO bearings are tested and approved via tests under tough conditions to meet requirements even higher than standard bearings.

## HC-CARGO Solenoids

One of HC-CARGOs most sold spare parts are solenoids. At our webpage you can see a short animation of the function of the solenoid and learn more about the HC-CARGO solenoid program – both for starters and universal solenoids.

**HC-CARGO Solenoid Program:**

- 1000+ part.no. – both starter components and universal solenoids
- Here of 125 universal solenoids (suitable for electrical motors, tail lid lifts, windlass etc.)
- Starter solenoids portfolio covers more than 85% of the European carpark
- All solenoids are produced by ISO certified suppliers
- All solenoids are tested in our test facilities
- Starter solenoid test - among other tests - includes endurance test of 9000 cycles. This grants you and your customer's trusted and high quality – always
- HC-CARGO starter solenoids are used in leading reman productions
- The HC-CARGO starter solenoid portfolio beside personal cars also include applications for trucks, agricultural machinery, marine and outdoor power equipment



## High Quality Alternatives in HC-CARGO

We offer a high quality guarantee with thorough testing carried out by our quality assurance department. Our engineers test the parts in terms of interaction, perfect fit and easy installation before the products are approved and released for sale. This procedure ensures that we keep the promised high quality. You can easily find our recommendations - look for these logos:

## Quality Stamps @ HC-CARGO

The 5 star icon will help you to make the right product choice. If you see the icon, the part is OE quality, i.e. 1:1 the quality of the original part. If no icon appears, the part is aftermarket quality, i.e. the high quality you are familiar with from HC-CARGO – tested at our own test facilities before launch.
The HC-CARGO 5-star program contains products known in the automotive aftermarket as "original spare parts". The suppliers of these parts are OE manufacturers.

You will find the entire HC-CARGO product portfolio available on our online shop.

**High Performance**
Highest Quality. Designed and developed for high endurance and long lifetime

**Best Choice**
HC-CARGOs High Quality alternative. Expert's recommendation for the best price/value offer in the market

## Our Quality – Your assurance

Quality is key to us at HC-CARGO. Even though the products are developed by our manufacturer network, the HC-CARGO logo on the packaging stands for high quality standards.

To constantly ensure high quality, our processes follow strict regulations.

The HC-CARGO ordering and management processes are certified to DIN EN ISO 9001. Certified management processes are also something we expect and require from our suppliers. They are all DIN EN ISO 9001 or TS 16949 certified.

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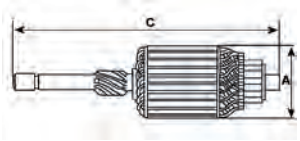
## ABBREVIATIONS:

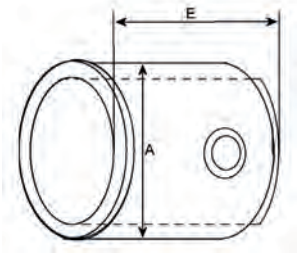
**ACR**=Anti-clockwise rotation, **AC**=Air condition, **A**=Ampere, **AT**=Automatic transmission, **BS**=Battery sense, **Cat**=Catalyzer, **CR**=Clockwise rotation, **Cyl.**=Cylunder, **D**=Insulated, **DD**=Direct drive, **DF**=DF plug, **Dia.**=Diameter, **Dim.**=Dimension, **Dist.**=Distance, **EF**=External fan, **Eng.**=Engine, **Eur.**=European application, **FW**=Free wheel pulley, **GR**=Gear reduction, **HD**=Heavy duty, **HP**=Horsepower, **ID**=Inner diameter, **IF**=Internal fan, **IR**=Internal regulator, **K**=Test lamp, **kW**=Kilowatt, **LHD**=Left hand drive, L**RC**=Load responce control, **OD**=Outer diameter, **PS**=Power steering, **RHD**=Right hand drive, **V**=Volt, **VP**=Vacuum pump, **w/**=with, **w/o**=without, **W**= RPM connection, **15**=Connection for the auxiliary start, **30h**=W/ additional terminal 30h, **3(2)**=Number of fixing holes - Number inbrackets represent threaded holes, **( )**=Vehicle type, **[ ]**=Engine type

**For armatures specific:**



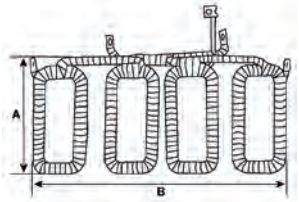

**A =** Core thickness
**C =** Shaft length

**For yokes specific:**



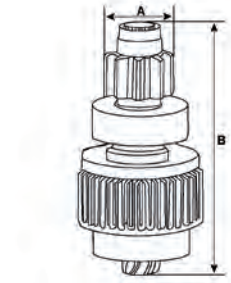

**A =** OD/middle
**E =** Length

**For field coils specific:**

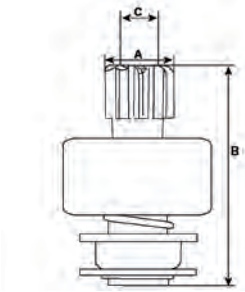



**A =** Height
**B =** Width

**For drives specific:**

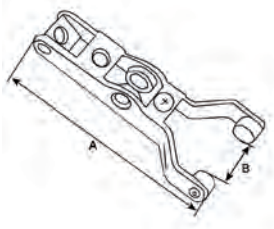



**A =** OD
**B =** Total length




**A =** OD
**B =** Total length
**C =** ID

**For levers specific:**




**A =** Length
**B =** Distance

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| TERMINAL CHART | Field / Rotor | Ground | Charging Lamp | Ignition | Point Central | Tacho / Stator | CPU Control | Battery Sense | Battery | Dummy |
|---|---|---|---|---|---|---|---|---|---|---|
| BOSCH | DF/F1/F2 | B-/D- | D+/61/L/61E | 15 | | W | COM/DF DFM/FR LI/RC LIN | S | B+ | |
| BUTEC | F | - | D+ | | | | | | B+ | |
| CHRYSLER | F1/F2/FLD | GRD | | | | | | | B+ | |
| DELPHI | | | L | | | | DFM | | B+ | |
| DENSO | F/F1/F2 | E- | L | IG/R | N | P | FR/C/M | S | B/A | D |
| DUCELLIER | EXC | -/B- | D+ | + | | W | | | B+ | |
| ELMOT | 67 | 31 | 15 | | | W | | | B+ | |
| FORD (VISTEON) | DF/F/FLD | D-/-VE | D+/IND/I | | | W/STA/S | | | B+/Bat | |
| HITACHI | F | E | L | IG/R | N | P | FR/G | S | B/A | D |
| ISKRA | DF | D- | D+ | | | W | | | B+ | |
| LADA | 67 | 31 | 15 | | | | | | B+/30 | |
| LUCAS | F | - | D+ | | | STA/W | | S | B+ | |
| PAL/MAGNETON | M | - | R | | | | | | B+ | |
| MANDO (VALEO) | F | E | L/I | IG/R | N | P | | S | B/A | D |
| MARELLI | 67 | 31 | 15 | | C | W | FR/SIG LI/STD PHIN/RC | | B+/30 | |
| MITSUBISHI | F | E | L | IG/R | N | P | FR/G/D | S | B/A | D |
| MOTOROLA | EXC | -/B- | D+ | | | W | | | B+ | |
| PARIS RHONE | EXC | -/B- | L | | | W | | | B+ | |
| REMY (DELCO) | F | GRD | D+/L/1 | I/IG | | P/R/W | F | M/S/2 | B+ | |
| SEV MARCHAL | DF | -/B- | 61+ | | | W | | | B+ | |
| VALEO | EXC | - | L/D+/61E | 15/+ | | W | COM/FR DF/DFM LIN | | B+ | |

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but HC CAR GO assumes no responsibility for possible errors.
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ISO 9001
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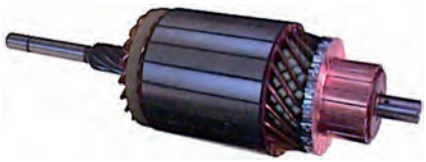
Certification

## Armatures

### 9 V



**131933** Armature

**Servicing:** 0001362001

9 **V**, 2.4 **kW**, **Shaft length** 283.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130113.*

**131934** Armature

**Servicing:** 0001362047

9 **V**, 2 **kW**, **Shaft length** 285.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130116.*

**133084** Armature

**Servicing:** 0001354004, 0001354005, 0001354018, 0001354027, 0001354031, 0001354077, 0001354079, 0001354085, EJD1,8/12R29, EJD1

9 **V**, 1.4 **kW**, **Shaft length** 300.00, **Core thickness** 73.00, **No./splines** 3, **Rotation** CR

*12 V: HC-CARGO 130109.*

**133085** Armature

**Servicing:** 0001354082, 0001354090, 0001354091, 0001354092

9 **V**, 1.8 **kW**, **Shaft length** 300.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130110.*

**133086** Armature

**Servicing:** 0001362009, 0001362016, 0001362022, 0001362024

9 **V**, 2.4 **kW**, **Shaft length** 288.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130114.*

**133087** Armature

**Servicing:** 0001362034, 0001362035, 0001362036, 0001362037, 0001362039, 0001362040, 0001362041, 0001362042, 0001362043, 0001362045

9 **V**, 2.4 **kW**, **Shaft length** 290.20, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130115.*

**133088** Armature

9 **V**, 2.4/2.7 **kW**, **Shaft length** 312.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130117.*

**133089** Armature

**Servicing:** 0001358017, 0001358018, 0001358020, 0001358035

9 **V**, 2.3 **kW**, **Shaft length** 335.00, **Core thickness** 73.00, **No./splines** 3, **Rotation** CR

*12 V: HC-CARGO 130118.*

**133090** Armature

**Servicing:** 0001358048, 0001358049, 0001358050, 0001358051

9 **V**, 3.2 **kW**, **Shaft length** 332.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 131130.*

**133098** Armature

**Servicing:** 0001362305, 0001362308, 0001362311, 0001362313, 0001362314, 0001362320, 0001362322, 0001362323, 0001362325, 0001362326

9 **V**, 2/2.4/2.7 **kW**, **Shaft length** 290.50, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 132158.*

**133510** Armature

**Servicing:** 0001317007, 0001317013, 0001317022, 0001317023

9 **V**, 1.7 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 131839.*

**133515** Armature

**Servicing:** 0001359008, 0001359021, 0001359071

9 **V**, 3 **kW**, **Shaft length** 333.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*12 V: HC-CARGO 130319.*



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## 134285 Armature

**Servicing:** 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010, 0001367011

9 **V**, 3 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR
*12 V: HC-CARGO 131075.*

## 134887 Armature

**Servicing:** 0001110001, 0001110004, 0001110007, 0001110009, 0001110011, 0001110012, 0001110013, 0001110014, 0001110018, 0001110019

9 **V**, 1.7/1.8 **kW**, **Shaft length** 161.00, **Core thickness** 60.00, **No./teeth** 15, **Rotation** CR/ACR
*12 V: HC-CARGO 132814.*

## 136106 Armature

**Servicing:** 0001362600, 0001362601, 0001362605

9 **V**, 2.3 **kW**, **Shaft length** 285.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR
*12 V: HC-CARGO 136105.*

## 331023 Armature

**Replacing:** 2004004045

**Servicing:** 0001354007, 0001354011, 0001354038, 0001354086

9 **V**, **Shaft length** 300.00, **Core thickness** 74.00, **No./splines** 3, **Rotation** ACR

## 12 V

## 130059 Armature

**Replacing:** 1004003900, 1004003127, 1004003125

**Servicing:** 0001311001, 0001311007, 0001311013, 0001311014, 0001311016, 0001311019, 0001311020, 0001311021, 0001311023, 0001311024

12 **V**, 1 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

## 130060 Armature

**Replacing:** 1004003901, 1004003143, 1004003134

**Servicing:** 0001311100, 0001311101, 0001311102, 0001311103, 0001311104, 0001311105, 0001311106, 0001311107, 0001311108, 0001311109

12 **V**, 1.1 **kW**, **Shaft length** 253.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

## 130061 Armature

**Replacing:** 9001184001, 9001082524, 9001082321, 9001082304, 1004012920, 1004012406

**Servicing:** 0001211207, 0001211208, 0001211215, 0001211225, 0001211227, 0001211228, 0001211229, 0001211232, 0001211237, 0001211239

12 **V**, 0.8 **kW**, **Shaft length** 222.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 130062 Armature

**Replacing:** 1004014104, 1004012917, 1004012452, 1004012417, 1004012407, 1004012404

**Servicing:** 0001204102, 0001204103, 0001211204, 0001211205, 0001211206, 0001211209, 0001211210, 0001211213, 0001211214, 0001211216

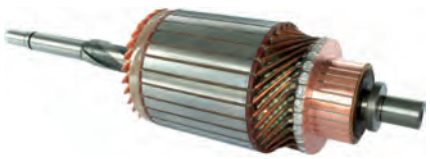
12 **V**, 0.8 **kW**, **Shaft length** 222.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 130108# Armature

**Replacing:** 2004004031, 2004002036, 2004002031

**Servicing:** 0001208049, 0001208051, 0001208052, 0001208053, 0001208054, 0001208055, 0001208249, 0001208252, 0001208254, 0001208255

12 **V**, 0.85 **kW**, **Shaft length** 253.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR



## 130109 Armature

**Replacing:** 2004004044, 2004004043, 2004004042, 2004004041, 2004004020, 2004004012

**Servicing:** 0001354010, 0001354016, 0001354021, 0001354029, 0001354055, 0001354064, 0001354077

12 **V**, 1.4 **kW**, **Shaft length** 300.00, **Core thickness** 73.00, **No./splines** 3
*9 V: HC-CARGO 133084.*



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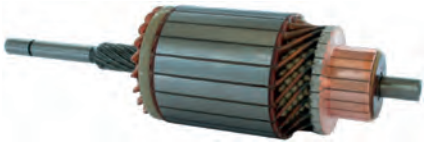
## 130110 Armature

**Replacing:** 2004004051

**Servicing:** 0001354080, 0001354082, 0001354088, 0001354090, 0001354091, 0001354092, 0001354093, 0001354094, 0001354095, 0001354099

12 **V**, 1.8 **kW**, **Shaft length** 300.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133085.*



## 130113 Armature

**Replacing:** 2007031001, 2004004071

**Servicing:** 0001362001, 0001362002, 0001362003, 0001362004, 0001362027, 0001362028, 0001362029, 0001362030, 9000143406

12 **V**, 2.4 **kW**, **Shaft length** 282.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 131933.*

## 130114 Armature

**Replacing:** 2007031003, 2004004072

**Servicing:** 0001362005, 0001362006, 0001362007, 0001362008, 0001362009, 0001362010, 0001362011, 0001362012, 0001362013, 0001362014

12 **V**, 2.4 **kW**, **Shaft length** 288.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133086.*

## 130115 Armature

**Replacing:** 2004004095, 2004004074

**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362039, 0001362040, 0001362041, 0001362042

12 **V**, 2.4 **kW**, **Shaft length** 290.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133087.*

**Alternative no.:** F032130115

## 130116 Armature

**Replacing:** 2004004075

**Servicing:** 0001362038, 0001362047, 0001362069, 0001362070, 0001362077, 0001362078, 0001362083, 0001362600, 9000143408, B001812171

12 **V**, 2 **kW**, **Shaft length** 285.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 131934.*

**Alternative no.:** F032130116

## 130117 Armature

**Replacing:** 2004014953, 2004014053, 2004004096, 2004004094, 2004004091, 2004004076

**Servicing:** 0001362051, 0001362052, 0001362063, 0001362064, 0001362082, 0001362093, 0001362096, 0001362097, 0001362300, 0001362301

12 **V**, 2.4/2.7 **kW**, **Shaft length** 312.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133088.*

## 130118 Armature

**Replacing:** 2004004081, 2004004025, 2004004024

**Servicing:** 0001358017, 0001358018, 0001358020, 0001358026, 0001358033, 0001358035, 0001358038, 0001358046, 0001358047

12 **V**, 2.3 **kW**, **Shaft length** 335.00, **Core thickness** 73.00, **No./splines** 3, **Rotation** CR

*9 V: HC-CARGO 133089.*

## 130122 Armature

**Replacing:** 2004012011, 1004012915, 1004012914, 1004012913, 1004012449, 1004012428, 1004012413, 1004012011

**Servicing:** 0001211223, 0001211224, 0001211255, 0001211256, 0001211257, 0001211258, 0001211992, 0001211993, 9000692015, 9000692050

12 **V**, 0.8 **kW**, **Shaft length** 215.50, **Core thickness** 60.00, **No./splines** 10, **Rotation** ACR

## 130319 Armature

**Replacing:** 9001140275, 2004004112, 2004004061

**Servicing:** 0001359001, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010, 0001359012, 0001359013, 0001359014, 0001359016

12 **V**, 3 **kW**, **Shaft length** 333.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133515.*

**Alternative no.:** F032130319



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## 130360 Armature

**Replacing:** 9003334020, 9001334020

**Servicing:** 9000330922, 9000330948

12 **V**, 0.8 **kW**, **Shaft length** 250.00, **Core thickness** 54.40, **No./splines** 12, **Rotation** CR

## 130994 Armature

**Replacing:** 1004012916, 1004012412

**Servicing:** 0001211221, 0001211222, 0001211251, 0001211252, 0001211253, 0001211254, 9000692062, B001211098, B001211204

12 **V**, 0.8 **kW**, **Shaft length** 227.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 131051 Armature

**Replacing:** 9001337082, 9001140182, 2004011032, 1004011003

**Servicing:** 0001157012, 0001157013, 0001157014, 0001157015, 0001157018, 0001157020, 0001157021, 0001157022, 0001157023, 9000141100

12 **V**, 0.7 **kW**, **Shaft length** 222.00, **Core thickness** 52.00, **No./splines** 10, **Rotation** CR

## 131063 Armature

**Replacing:** 9001334000, 1007010021, 1004012906, 1004012431, 1004012408

**Servicing:** 0001208172, 0001208200, 0001208201, 0001208202, 0001208204, 0001208206, 0001208208, 0001208209, 0001208211, 0001208216

12 **V**, 0.85 **kW**, **Shaft length** 232.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 131075 Armature

**Replacing:** 9001141143, 2004014961, 2004014960, 2004014060, 2004004010, 2004004007, 2004004006, 2004004005

**Servicing:** 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010, 0001367011

12 **V**, 3 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 134285.*

**Alternative no.:** F032131075

## 131130 Armature

**Replacing:** 2004004083

**Servicing:** 0001358048, 0001358049, 0001358050, 0001358051, B001804003

12 **V**, 3.2 **kW**, **Shaft length** 333.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133090.*

## 131435 Armature

**Replacing:** 1004003908, 1004003151

**Servicing:** 0001317009, 0001317010, 0001317014, 0001317015, 0001317018, 0001317019, 0001317020, 0001317021, B001329010

12 **V**, 1.7 **kW**, **Shaft length** 262.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

*9 V: HC-CARGO 133358.*

## 131663 Armature

**Replacing:** 9001049121, 1004003912, 1004003170, 1004003142, 1004003138, 1004003133, 1004003130

**Servicing:** 0001311041, 0001311042, 0001313003, 0001313005, 0001313006, 0001314001, 0001314002, 0001314005, 0001314006, 0001314009

12 **V**, 1.5 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

**Alternative no.:** F032131663

## 131665 Armature

**Replacing:** 2004004069

**Servicing:** 0001358200, 0001358201, 0001358202

12 **V**, 2.5 **kW**, **Shaft length** 303.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 131839 Armature

**Replacing:** 1004003907, 1004003154, 1004003150

**Servicing:** 0001317007, 0001317008, 0001317013, 0001317022, 0001317023, 0001317024, 0001317025, B001329009, B001329014, B001329044

12 **V**, 1.7 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133510.*



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## 132031 Armature

**Replacing:** 9003334034, 9003334033, 9003334029, 9003334028, 9003334026, 9003334025, 9001140339, 1004012450

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

12 **V**, 2.2 **kW**, **Shaft length** 158.00, **Core thickness** 50.00, **No./teeth** 18, **Rotation** CR

## 132143 Armature

**Replacing:** 1004012912, 1004012903, 1004012426, 1004012420

**Servicing:** 0001211500, 0001211501, 0001211502, 0001211503, 0001211504, 0001211505, 0001211510, 0001211511, 0001211512, 0001211513

12 **V**, 0.8 **kW**, **Shaft length** 207.50, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 132149 Armature

**Replacing:** 1004003915, 1004003148

**Servicing:** 0001314025, 0001314026, 0001314027, 0001314028, 0001314029, 0001314030, 0001314032, 0001314033, 0001314034, 0001314035

12 **V**, 1.5 **kW**, **Shaft length** 262.50, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133588.*

## 132152# Armature

**Replacing:** 9001337081, 1004011004

**Servicing:** 0001157024, 0001157025, 0001157028, 0001157029, 0001157030, 9000141114, 9000141116, 9000334102

12 **V**, 0.7 **kW**, **Shaft length** 228.00, **Core thickness** 52.00, **No./splines** 10, **Rotation** CR

## 132153 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 9001334001, 9001304001, 1004012905, 1004012432, 1004012422, 1004012421

**Servicing:** 0001208501, 0001208502, 0001208507, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518

12 **V**, 0.8/0.85/0.95 **kW**, **Shaft length** 216.94, **Core thickness** 59.90, **No./splines** 10, **Rotation** CR

## 132156 Armature

**Replacing:** 1004003913, 1004003171, 1004003139, 1004003132

**Servicing:** 0001314003, 0001314004, 0001314008, 0001314016, 0001314022, 0001314031, 0001314039, 0001314040, 0001314044, B001315003

12 **V**, 1.5 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

## 132158 Armature

**Replacing:** 2004014952, 2004004952, 2004004092, 2004004082

**Servicing:** 0001358040, 0001362034, 0001362035, 0001362036, 0001362039, 0001362041, 0001362042, 0001362045, 0001362046, 0001362048

12 **V**, 1.9-2.7 **kW**, **Shaft length** 290.50, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133098.*

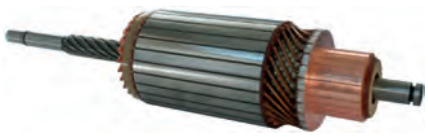
## 132164 Armature

**Replacing:** 1004003909, 1004003152

**Servicing:** 0001317011, 0001317012, 0001317016, 0001317017, B001329013, B001329029

12 **V**, 1.7 **kW**, **Shaft length** 282.50, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

*9 V: HC-CARGO 134084.*



## 132332 Armature

**Replacing:** 2004004926, 2004004105

**Servicing:** 0001365004, 0001365005, 0001365006, 0001365007, 0001365008, B001819001, B001819009, B001819015, B001819117

12 **V**, 3.7 **kW**, **Shaft length** 366.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR



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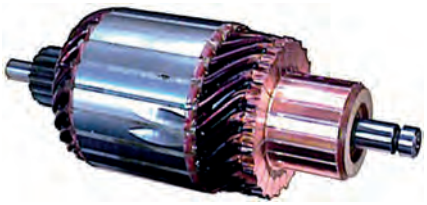


## 132814 Armature

**Replacing:** 1004011901, 1004011066, 1004011056, 1004011047, 1004011044, 1004011036, 1004011031, 1004011025

**Servicing:** 0001110001, 0001110002, 0001110007, 0001110008, 0001110009, 0001110010, 0001110011, 0001110012, 0001110013, 0001110014

12 **V**, 1.7/1.8 **kW**, **Shaft length** 161.00, **Core thickness** 60.00, **No./teeth** 15, **Rotation** CR/ACR

*9 V: HC-CARGO 134887.*

**Alternative no.:** F032132814

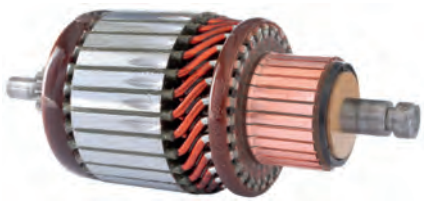
## 132815 Armature

**Replacing:** 1004011206, 1004011048, 1004011038, 1004011037, 1004011033, 1004011030, 1004001033

**Servicing:** 0001110003, 0001110005, 0001110017, 0001110024, 0001110025, 0001110026, 0001110033, 0001110040, 0001110042, 0001110047

12 **V**, 1.7 **kW**, **Shaft length** 163.00, **Core thickness** 59.00, **No./teeth** 18, **Rotation** CR/ACR

*9 V: HC-CARGO 234594.*



## 132816 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011203, 1004011085, 1004011077, 1004011070, 1004011065, 1004011051, 1004011034, 1004011032

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108005, 0001108006, 0001108007, 0001108009, 0001108010, 0001108011

12 **V**, 1.1/1.8 **kW**, **Shaft length** 136.00, **Core thickness** 55.00, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** 335177

## 132988 Armature

**Replacing:** 1004011136, 1004011120, 1004011111, 1004011101

**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014, 0001112015, 0001112016

12 **V**, 0.8/0.9 **kW**, **Shaft length** 212.00, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR

## 133107 Armature

**Replacing:** 2004002032

**Servicing:** 0001211997, 0001211998, 9000042021, 9000042027, 9000082009

12 **V**, 0.8 **kW**, **Shaft length** 248.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** ACR

## 133160 Armature

**Replacing:** 1004012901, 1004012410

**Servicing:** 0001212206, 0001212207, 0001212210, B001229004, B001229013

12 **V**, 0.7/0.8 **kW**, **Shaft length** 221.50, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 133209 Armature

**Replacing:** 1004012909, 1004012433

**Servicing:** 0001208425, 0001208426, 0001208428, 0001208429, B001208256

12 **V**, 0.95 **kW**, **Shaft length** 237.50, **Core thickness** 60.00, **No./splines** 10, **Rotation** ACR

## 133486 5★ Armature

**Manufacturer:** Remy

**Replacing:** 2005005026, 2004005155, 2004005026

**Servicing:** 0001413001, 0001413002, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010

12 **V**, 3.5/3.6 **kW**, **Shaft length** 235.50, **Core thickness** 83.00, **Rotation** CR

*Clutch housing: HC-CARGO 231369.*

## 134514 Armature

**Replacing:** 1004011086, 1004011068, 1004011062, 1004011042, 1004011039

**Servicing:** 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107009, 0001107012, 0001107013, 0001107014

12 **V**, 1.1 **kW**, **Shaft length** 123.00, **Core thickness** 55.00, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** 333588 5★

## 134521 Armature

**Replacing:** 1004003910, 1004003153

**Servicing:** 0001312108, 0001312109, B001335003

12 **V**, 1.7 **kW**, **Shaft length** 258.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR



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#Available while stock last, * Program development.

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## 134522 Armature

**Replacing:** 1004012468, 1004012409

**Servicing:** 0001212204, 0001212205, 0001212208, 0001212209, 0001212211, 0001212212, 0001212213, 0001212214, B001229003

12 **V**, 0.8 **kW**, **Shaft length** 221.50, **Core thickness** 60.00, **No./splines** 10, **Rotation** ACR

## 134799 Armature

**Replacing:** 2004003036, 2004003031, 1004003919

**Servicing:** 0001312100, 0001312110, B001322002, B001322022

12 **V**, 1.5 **kW**, **Shaft length** 257.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

## 135113# Armature

**Replacing:** 1004011126, 1004011106

**Servicing:** 0001114005, 0001114006, B001181007

12 **V**, 1 **kW**, **Shaft length** 227.00, **Core thickness** 59.00, **No./splines** 10, **Rotation** ACR

## 135351 Armature

**Replacing:** 2004014965, 2004004965, 2004004056, 2004004040, 2004004037

**Servicing:** 0001369001, 0001369002, 0001369003, 0001369005, 0001369006, 0001369007, 0001369011, 0001369012, 0001369013, 0001369015

12 **V**, 3.1/3.6 **kW**, **Shaft length** 322.50, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 135639 Armature

**Replacing:** 1004003922, 1004003141

**Servicing:** 0001315002, 0001315004, B001317004

12 **V**, 1.9 **kW**, **Shaft length** 253.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

## 135842# Armature

**Replacing:** 9001082594, 9001082574

**Servicing:** 9000082043, 9000082044, 9000082050, 9000082052, 9000082054, 9000082055, 9000082058, 9000082059, 9000082061, 9000082063

12 **V**, 0.95 **kW**, **Shaft length** 229.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

## 136105 Armature

**Replacing:** 2004014951, 2004004090

**Servicing:** 0001362038, 0001362600, 0001362601, 0001362605, B001812171, B001812265, B001812301, B001812357

12 **V**, 2-2.3 **kW**, **Shaft length** 285.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 136106.*

## 136231 Armature

**Replacing:** 1004011902, 1004011099, 1004011055, 1004011045, 1004011041

**Servicing:** 0001109001, 0001109002, 0001109003, 0001109006, 0001109007, 0001109008, 0001109009, 0001109011, 0001109012, 0001125011

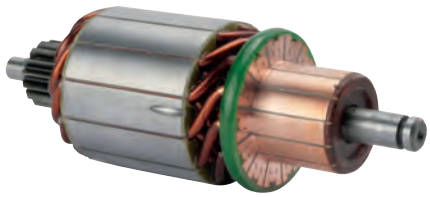
12 **V**, 1.6 **kW**, **Shaft length** 148.00, **Core thickness** 59.00, **No./teeth** 18

## 136783# Armature

**Replacing:** F000AL1506, 1004011144, 1004011124, 1004011118, 1004011018

**Servicing:** 0001112029, 0001112033, 0001112037, 0001113009, 0001113015, 9000695004, 9000695005, 9000695007, 9000695008, B001180063

12 **V**, 0.8/0.9 **kW**, **Shaft length** 206.50, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR



## 136784 Armature

**Replacing:** 9003334032, 9003334031

**Servicing:** 0001218162, 0001218165, 0001218172, 0001218173

12 **V**, 2.2 **kW**, **Shaft length** 152.00, **Core thickness** 50.00, **No./splines** 15, **No./teeth** 15

## 136986 Armature

**Replacing:** 2004014955, 2004004078

**Servicing:** 0001362085, 0001362094, 0001362099, 0001366005, 0001366006, 0001366010, 0001366013, 0001366014, 0001366028, 9000143204

12 **V**, 1.9/2.4 **kW**, **Shaft length** 290.50, **Core thickness** 75.00, **No./splines** 10, **Rotation** ACR

## 136988 Armature

**Replacing:** F000AL1521, 1004011123

**Servicing:** 0001112014, 0001112027, 0001112028, 0001112044, 0001112045, 0001113013, 0001113014, B001180052

12 **V**, 0.8/0.9 **kW**, **Shaft length** 224.50, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR



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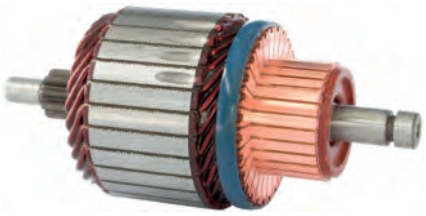
#Available while stock last, * Program development.

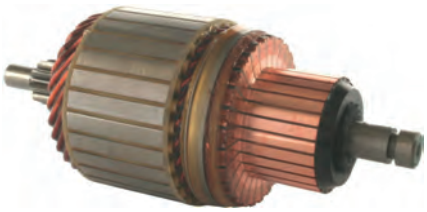


## 137069 Armature

**Replacing:** 1004011097, 1004011063, 1004011058, 1004011046

**Servicing:** 0001107010, 0001107011, 0001107030, 0001107031, 0001107032, 0001107037, 0001107038, 0001107039, 0001107048, 0001107049

12 **V**, 1.1 **kW**, **Shaft length** 123.00, **Core thickness** 55.00, **No./teeth** 9



## 137070 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011204, 1004011091, 1004011076, 1004011071, 1004011057, 1004011043

**Servicing:** 0001108115, 0001108145, 0001108153, 0001108157, 0001108167, 0001108169, 0001108190, 0001108196, 0001108208, 0001108209

12 **V**, 1.4 **kW**, **Shaft length** 138.00, **Core thickness** 55.00, **No./teeth** 9, **Rotation** CR

## 137233 Armature

**Replacing:** 2004014967, 2004004055

**Servicing:** 0001369014, 0001369020, 0001369024, B001828111

12 **V**, 3.1 **kW**, **Shaft length** 301.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 137284 Armature

**Replacing:** 1004011087, 1004011074

**Servicing:** 0001109003, 0001109017, 0001109043, 0001109044, 0001109047, 0001109049, 0001109056, 0001109059, 0001109060, 0001109064

12 **V**, 2 **kW**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 16

## 137479 Armature

**Replacing:** 9003334037, 9003334030, 9003334027

**Servicing:** 9000331201, 9000331203

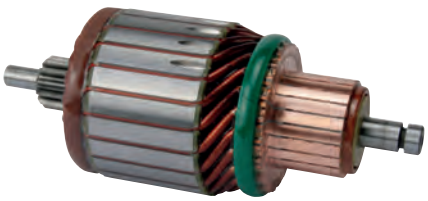
12 **V**, 1.9 **kW**, **Shaft length** 158.00, **Core thickness** 50.00, **No./teeth** 10, **Rotation** CR

## 137482 Armature

**Replacing:** F000AL1321, 1004011143, 1004011138, 1004011133

**Servicing:** 0001112035, 0001112041, 0001113010, 0001113017, F000AL0325, F000AL0327, F004A95002

12 **V**, 0.8/0.9 **kW**, **Shaft length** 202.50, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR



## 137893 Armature

**Replacing:** F010AL1014, 1004011220, 1004011088, 1004011072

**Servicing:** 0001109014, 0001109018, 0001109025, 0001109026, 0001109028, 0001109029, 0001109030, 0001109031, 0001109033, 0001109034

12 **V**, 1.8/2 **kW**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 13

*11 tooth: HC-CARGO 230371.*

## 138330 Armature

**Replacing:** 1004003918, 1004003916, 1004003176, 1004003157, 1004003155

**Servicing:** 0001314046, 0001314047, 0001314049, B001315184, B001315186

12 **V**, 1.5 **kW**, **Shaft length** 271.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

## 138334 Armature

**Replacing:** 1004003904, 1004003137

**Servicing:** 0001311115, 0001311134, 0001311135, 0001311138, B001311048, B001311075, B001311102, B001311148

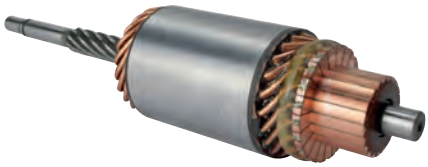
12 **V**, 1.1 **kW**, **Shaft length** 252.00, **Core thickness** 65.00, **No./splines** 10, **Rotation** ACR

## 138674 Armature

**Replacing:** 1004011054, 1004011040

**Servicing:** 0001110063, 0001110068, B001117150, B001117155

12 **V**, 1.7 **kW**, **Shaft length** 163.00, **Core thickness** 59.00, **No./teeth** 11, **Rotation** ACR



## 138848 Armature

**Replacing:** 9001083327

**Servicing:** 9000083027, 9000083028, 9000083049, 9000083053, 9000083054, 9000083055, 9000083056, 9000083057, 9000083058, 9000083059

12 **V**, 3 **kW**, **Shaft length** 329.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR

## 139404 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011218, 1004011205, 1004011202, 1004011080

**Servicing:** 0001110017, 0001110026, 0001110079, 0001110089, 0001110095, 0001110114, 0001110126, 0001110127, 0001110128, 0001110129

12 **V**, 1.8 **kW**, **Shaft length** 160.00, **Core thickness** 59.00, **No./teeth** 16, **Rotation** CR/ACR

**Alternative no.:** 335078



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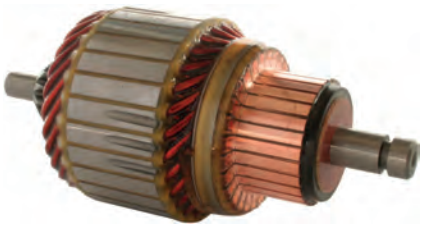


## 139658 Armature

**Replacing:** 1004011096, 1004011083

**Servicing:** 0001107010, 0001107048, 0001107072, 0001107096, 0001107107, 0001121006, 0001121007, 0001121008, 0001121009, 0001121010

12 **V**, 1.1 **kW**, **Shaft length** 123.00, **Core thickness** 55.00, **No./teeth** 14, **Rotation** CR/ACR

## 139703 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011082

**Servicing:** 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512, 0001125513, 0001125514

12 **V**, 2 **kW**, **Shaft length** 143.00, **Core thickness** 59.00, **No./splines** 0, **No./teeth** 16, **Rotation** CR

**Alternative no.:** 335083

## 139704 Armature

**Replacing:** 1004011319, 1004011224, 1004011090

**Servicing:** 0001109021, 0001109022, 0001109066, 0001109067, 0001109070, 0001109202, 0001109203, 0001109265, 0001109266, 0001109302

12 **V**, 2 **kW**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333412 5★

## 230193 Armature

**Replacing:** 1004003902, 1004003135

**Servicing:** 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, B001324002, B001324003, B001324004, B001324007

12 **V**, 1/1.35 **kW**, **Shaft length** 263.00, **Core thickness** 65.00, **No./splines** 10

## 230371 Armature

**Replacing:** 1004011315, 1004011225, 1004011208

**Servicing:** 00010DB98E, 0001105205, 0001109015, 0001109023, 0001109045, 0001109052, 0001109055, 0001109062, 0001109068, 0001109201

12 **V**, 2.1 **kW**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 11, **Rotation** CR

*13 tooth: HC-CARGO 137893.*

**Alternative no.:** 333411 5★

## 230518 Armature

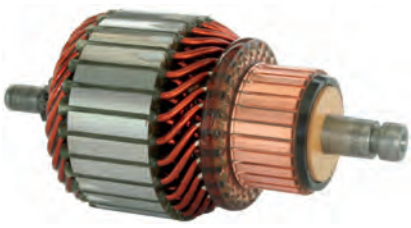
**Replacing:** 1004011207, 1004011067

**Servicing:** 0001110016, 0001110029, 0001110030, 0001110039, 0001110041, 0001110048, 0001110053, 0001110071, 0001110072, 0001110075

12 **V**, 1.7/1.8 **kW**, **Shaft length** 160.00, **Core thickness** 59.00, **No./teeth** 13, **Rotation** CR

*15 tooth: HC-CARGO 132814.*

**Alternative no.:** F032230518



## 231065 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011089

**Servicing:** 0001106011, 0001106012, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019, 0001106022, 0001106023, 0001106024

12 **V**, 0.9 **kW**, **Shaft length** 115.50, **Core thickness** 55.00, **No./teeth** 9, **Rotation** CR/ACR

**Alternative no.:** 335077

## 231985 Armature

**Replacing:** 2004014962, 2004004008

**Servicing:** 0001367061, B001816377

12 **V**, 3 **kW**, **Shaft length** 336.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** ACR

## 233475 Armature

**Replacing:** 6033AD1059, 6033AD0436, 6033AD0010

**Servicing:** 0001223001, 0001223002, 0001223003, 0001223004, 0001223007, 0001223008, 0001223009, 0001223010, 0001223011, 0001223012

12 **V**, 2.3 **kW**, **Shaft length** 144.00, **Core thickness** 58.00, **No./teeth** 14, **Rotation** CR



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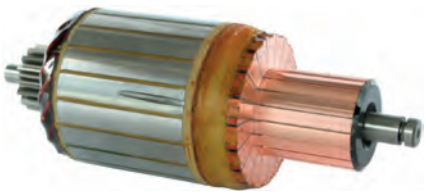
#Available while stock last, * Program development.

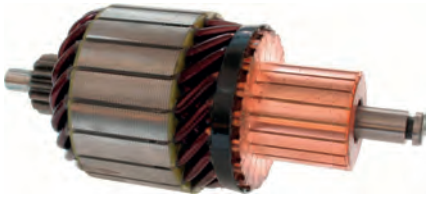


## 233585 Armature

**Replacing:** 6033AD3242, 6033AD3018, 6033AD0121, 6003AD0121

**Servicing:** 0001230001, 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010

12 **V**, 3 **kW**, **Shaft length** 169.00, **Core thickness** 60.00, **No./teeth** 16, **Rotation** CR



## 233698 5★ Armature

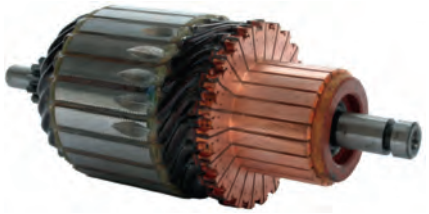
**Manufacturer:** Bosch

**Replacing:** 6033AD1104, 6033AD1061, 6033AD0446

**Servicing:** 0001223013, 0001223014

12 **V**, 2.3 **kW**, **Shaft length** 140.00, **Core thickness** 58.00, **No./teeth** 14, **Rotation** CR

**Alternative no.:** 335081

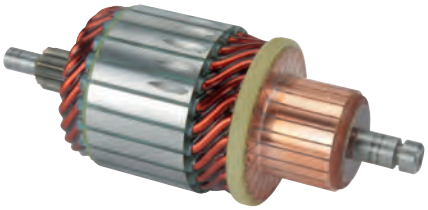


## 233715 Armature

**Replacing:** 1004011304, 1004011084

**Servicing:** 0001115005, 0001115006, 0001115009, 0001115011, 0001115013, 0001115035, 0001115045, 0001115046, 0001115068, 0001115069

12 **V**, 1.7 **kW**, **Shaft length** 145.50, **Core thickness** 55.00, **No./teeth** 11, **Rotation** CR/ACR



## 234022 Armature

**Replacing:** 1004011092, 1004011073

**Servicing:** 0001115001, 0001115002, 0001115007, 0001115008, 0001115012, 0001115015, 0001115016, 0001115017, 0001115020, 0001115021

12 **V**, 1.7 **kW**, **Shaft length** 146.00, **Core thickness** 55.00, **No./teeth** 9, **Rotation** CR

**Alternative no.:** F032234022

## 234023 Armature

**Replacing:** 1004011137

**Servicing:** 0001116001

12 **V**, 0.7 **kW**, **Shaft length** 179.00, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR

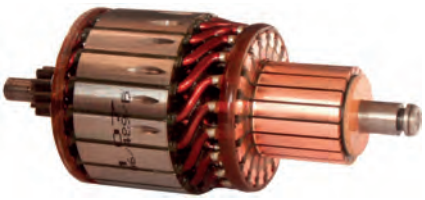
## 234166 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1007010119, 1004011211

**Servicing:** 0001110132, F000AL0108

12 **V**, 1.8 **kW**, **Shaft length** 160.00, **Core thickness** 59.00, **No./teeth** 11, **Rotation** CR



## 234244 Armature

**Replacing:** 6033AD1107, 6033AD0206

**Servicing:** 0001223005, 0001223006

12 **V**, 2.3 **kW**, **Shaft length** 140.00, **Core thickness** 58.00, **No./teeth** 11, **Rotation** CR

## 234895 Armature

**Replacing:** 1004011142, 1004011139

**Servicing:** 0001116003, 0001116006, 0001116008, 0001116009

12 **V**, 0.7 **kW**, **Shaft length** 189.00, **Core thickness** 59.00, **No./splines** 10, **Rotation** CR

## 235212 5★ Armature

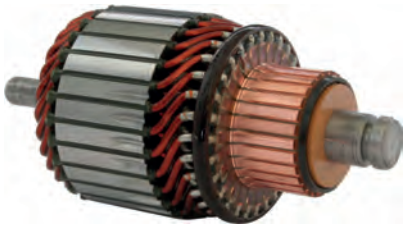
**Manufacturer:** Bosch

**Replacing:** 1004011243, 1004011216

**Servicing:** 0001115042, 0001115056, 0001115057, 0001115082, 0001115083, 0001115102, 0001115103, 0001115110, 0001123004, 0001123005

12 **V**, 1.4/1.7 **kW**, **Shaft length** 145.50, **Core thickness** 55.00, **No./splines** 14, **No./teeth** 14, **Rotation** ACR

**Alternative no.:** 335080



## 235324 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011212

**Servicing:** 0001107401, 0001107404, 0001107405, 0001107408, 0001107411, 0001107415, 0001107423, 0001107424, 0001107426, 0001107429

12 **V**, 1.1 **kW**, **Shaft length** 114.00, **Core thickness** 52.00, **No./teeth** 9, **Rotation** CR

*Used w/ gear: HC-CARGO 235025.*

**Alternative no.:** 335079



All measurements are in mm, unless else stated.
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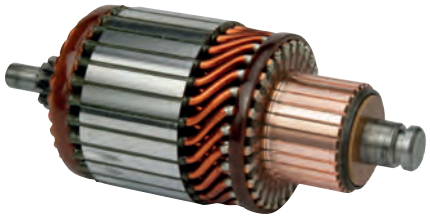


## 238108 Armature

**Replacing:** 1004011235, 1004011217

**Servicing:** 0001108400, 0001108409, 0001108410, 0001108420, 0001108421, 0001108428, 0001108429, 0001108444, 0001108450, 0001108451

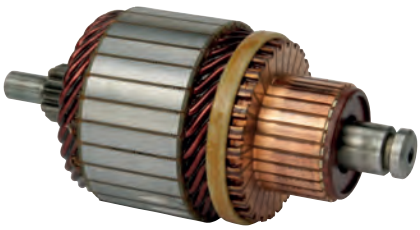
12 **V**, 1.4 **kW**, **Shaft length** 129.00, **Core thickness** 52.00, **No./teeth** 11, **Rotation** CR

## 239760 Armature

**Replacing:** 1004011201, 1004011098, 1004011059, 1004011053

**Servicing:** 0001110001, 0001110002, 0001110004, 0001110007, 0001110008, 0001110009, 0001110010, 0001110011, 0001110018, 0001110027

12 **V**, 1.7/1.8 **kW**, **Shaft length** 160.00, **Core thickness** 59.00, **No./teeth** 15, **Rotation** CR/ACR



## 330084 Armature

**Replacing:** 1004011210

**Servicing:** 0001107402, 0001107403, 0001107406, 0001107407, 0001107409, 0001107410, 0001107417, 0001107418, 0001107421, 0001107422

12 **V**, 1.2 **kW**, **Shaft length** 114.00, **Core thickness** 52.00, **No./teeth** 11, **Rotation** CR

**Alternative no.:** F032330084

## 330493 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011316, 1004011226

**Servicing:** 0001138001, 0001138002, 0001138003, 0001138004, 0001138011, 0001138012, 0001138013, 0001138014, 0001138015, 0001138016

12 **V**, 1.7 **kW**, **Shaft length** 138.19, **Core thickness** 51.95, **No./teeth** 14, **Rotation** CR

## 333098 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011214

**Servicing:** 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120409

12 **V**, 0.9 **kW**, **Shaft length** 107.40, **Core thickness** 52.00, **No./teeth** 11, **Rotation** ACR

## 333360 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011215

**Servicing:** 0001108401, 0001108402, 0001108403, 0001108404, 0001108405, 0001108406, 0001108408, 0001108411, 0001108412, 0001108415

12 **V**, 1.4 **kW**, **Shaft length** 128.70, **Core thickness** 51.90, **No./splines** 9, **No./teeth** 9, **Rotation** CR

## 333411 5★ Armature

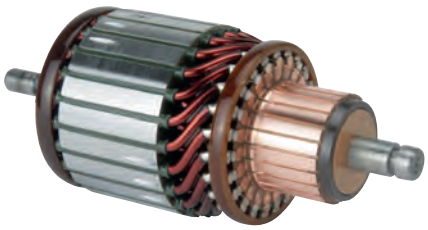
**Manufacturer:** Bosch

**Replacing:** 1004011315, 1004011208

**Servicing:** 0001109205, 0001109324, 0001109328, 0001109329, 0001109387, 0001109388, 0001109391, 0001109392

12 **V**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 11

**Alternative no.:** 230371



## 333412 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 1004011319, 1004011224, 1004011090

**Servicing:** 0001109069, 0001109070, 0001109262, 0001109263, 0001109271, 0001109272, 0001109273, 0001109274, 0001109280, 0001109281

12 **V**, 2.3 **kW**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 139704

## 333424 Armature

**Replacing:** 1004011263

**Servicing:** 0001115078, 0001115079, 0001115104, 0001115105, 0001115114, 0001115115

12 **V**, **Shaft length** 145.90, **Core thickness** 55.10, **No./teeth** 11



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## 333534 5★ Armature

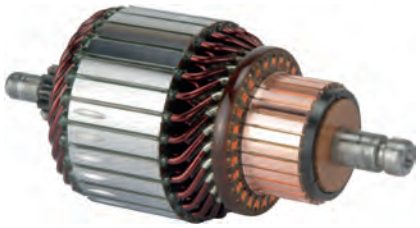
**Manufacturer:** Bosch

**Replacing:** 1004011268, 1004011220

**Servicing:** 0001109300, 0001109315, 0001109422, 0001125609, 0001125610

12 **V**, **Shaft length** 149.00, **Core thickness** 59.00, **No./teeth** 13

**Alternative no.:** 333625



## 333588 5★ Armature

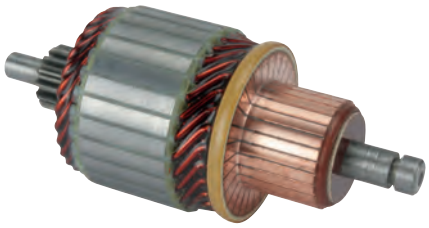
**Manufacturer:** Bosch

**Replacing:** 1004011086, 1004011068, 1004011062, 1004011042, 1004011039

**Servicing:** 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107009, 0001107012, 0001107013, 0001107014

12 **V**, 1.1 **kW**, **Shaft length** 123.00, **Core thickness** 55.00, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** 134514

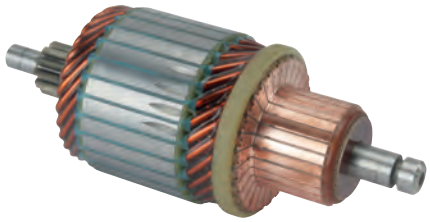


## 333770 Armature

**Replacing:** 1004011245

**Servicing:** 0001137001, 0001137002, 0001137003, 0001137004, 0001137005, 0001137006, 0001137011, 0001137012

**Shaft length** 125.80, **Core thickness** 52.00, **No./teeth** 14



## 333774 Armature

**Replacing:** 1004011317

**Servicing:** 0001138009, 0001138010, 0001138039, 0001138040, 0001142001, 0001142002, 0001142003, 0001142004, 0001142005, 0001142006

12 **V**, **Shaft length** 138.50, **Core thickness** 52.00, **No./teeth** 11

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## 333775 Armature

**Replacing:** 1004011325

**Servicing:** 0001179500, 0001179501, 0001179502, 0001179503, 0001179504, 0001179505, 0001179506, 0001179507

**Shaft length** 111.10, **Core thickness** 52.00, **No./splines** 18

**NEW PRODUCT**
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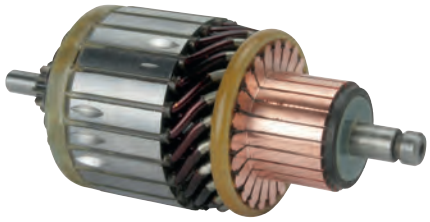
## 334071* Armature

**Replacing:** 2004015003

**Servicing:** 0001260001

12 **V**, 2 **kW**, **Shaft length** 145.50, **Core thickness** 49.70, **No./teeth** 16, **Rotation** CR

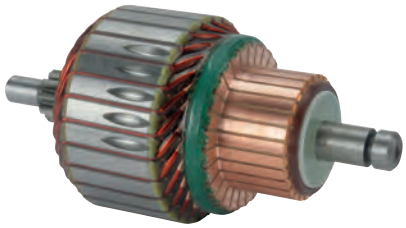


## 334199 Armature

**Replacing:** 1004011225

**Servicing:** 0001125519, 0001125520, 0001125521, 0001125522

12 **V**, **Shaft length** 143.00, **Core thickness** 59.00, **No./teeth** 11, **Rotation** CR



## 335077 Armature

**Replacing:** 1004011089

**Servicing:** 0001106012, 0001106016, 0001106017, 0001106018, 0001106022, 0001106023, 0001106024, F000AL0101

12 **V**, 0.9 **kW**, **Shaft length** 115.50, **Core thickness** 55.00, **No./teeth** 9, **Rotation** CR/ACR

**Alternative no.:** 231065 5★

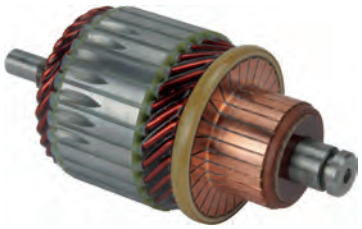
## 335078 Armature

**Replacing:** 1004011218, 1004011205, 1004011202, 1004011080

**Servicing:** 0001110126, 0001110127, 0001110128, 0001110129, 0001110136, 0001110137, 0001110138, 0001110139, 0001124011, 0001124012

12 **V**, 1.8 **kW**, **Shaft length** 160.00, **Core thickness** 59.00, **No./teeth** 16, **Rotation** CR/ACR

**Alternative no.:** 139404 5★



## 335079 Armature

**Replacing:** 1004011212

**Servicing:** 0001107401, 0001107408, 0001107425, 0001107426, 0001107429, 0001107433, 0001107434, 0001107437, 0001107438, 0001107439

12 **V**, 1.1 **kW**, **Shaft length** 114.00, **Core thickness** 52.00, **No./splines** 9, **Rotation** CR

**Alternative no.:** 235324 5★



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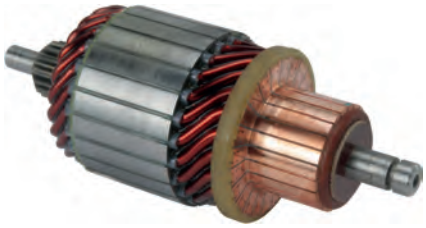


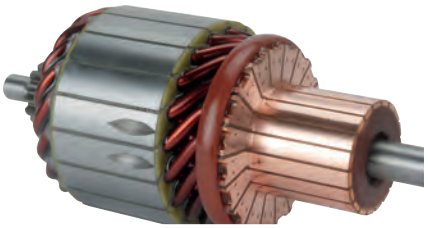
## 335080 Armature

**Replacing:** 1004011243, 1004011216

**Servicing:** 0001115110, 0001123012, 0001123013, 0001123014, 0001123015, 0001123017, 0001123018, 0001123019, 0001123020, 0001123021

12 **V**, 1.4/1.7 **kW**, **Shaft length** 145.50, **Core thickness** 55.00, **No./splines** 14, **Rotation** ACR

**Alternative no.:** 235212 5★



## 335081 Armature

**Replacing:** 6033AD1104, 6033AD1061, 6033AD0446

**Servicing:** 0001223013, 0001223014

12 **V**, 2.3 **kW**, **Shaft length** 140.30, **Core thickness** 58.00, **No./teeth** 14

**Alternative no.:** 233698 5★

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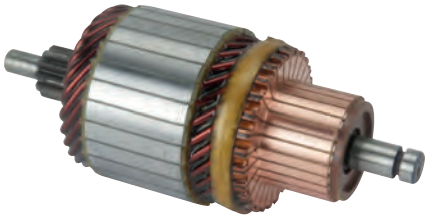
## 335083 Armature

**Replacing:** 1004011082

**Servicing:** 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512, 0001125513, 0001125514

12 **V**, 2 **kW**, **Shaft length** 143.00, **Core thickness** 59.00, **No./teeth** 16, **Rotation** CR

**Alternative no.:** 139703 5★



## 335177 Armature

**Replacing:** 1004011203, 1004011077, 1004011070, 1004011065, 1004011051, 1004011034, 1004011032, 1004011026

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108009, 0001108010, 0001108011, 0001108012, 0001108018, 0001108020

12 **V**, 1.1/1.8 **kW**, **Shaft length** 136.00, **Core thickness** 55.00, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** 132816 5★

### 18 V

## 137286 Armature

**Servicing:** 0001359120, 0001360002, 0001360004, 0001360005, 0001360007, 0001360008, 0001360015, 0001360016, 0001360017, 0001360018

18 **V**, 4 **kW**, **Shaft length** 334.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*24 V: HC-CARGO 130119.*

## 137287 Armature

**Servicing:** 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008, 0001368009, 0001368010

18 **V**, 4 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*24 V: HC-CARGO 131309.*

### 24 V

## 130119 Armature

**Replacing:** 2004004111, 2004004062

**Servicing:** 0001360002, 0001360004, 0001360005, 0001360007, 0001360008, 0001360009, 0001360010, 0001360012, 0001360013, 0001360014

24 **V**, 4 **kW**, **Shaft length** 333.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*18 V: HC-CARGO 137286.*

## 130120 Armature

**Replacing:** 2004005153, 2004005073, 2004005046, 2004005037, 2004005022, 2004005002

**Servicing:** 0001414001, 0001414002, 0001414003, 0001414004, 0001414005, 0001414006, 0001414007, 0001414008, 0001414009, 0001414010

24 **V**, 5 **kW**, **Shaft length** 235.00, **Core thickness** 83.00

*Clutch housing: HC-CARGO 231369.*

## 130320 Armature

**Replacing:** 2004005151, 2004005071, 2004005025

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

24 **V**, 5.5 **kW**, **Shaft length** 270.00, **Core thickness** 83.00, **Rotation** CR

*Clutch housing: HC-CARGO 231369.*



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#Available while stock last, * Program development.

## 131116 Armature

**Replacing:** 2004014928, 2004004968, 2004004928, 2004004128, 2004004115

**Servicing:** 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106, 0001364108, 0001364200, 0001364201

24 **V**, 4.8 **kW**, **Shaft length** 366.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 131124 Armature

**Replacing:** 2004336099, 2004004114, 2004004067

**Servicing:** 0001360023, 0001360025, 0001360036, 0001360040

24 **V**, 4 **kW**, **Shaft length** 340.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 131309 Armature

**Replacing:** 2004014975, 2004014075, 2004004038, 2004004036, 2004004035, 2004004033, 2004004032

**Servicing:** 0001367301, 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008, 0001368009

24 **V**, 4 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*18 V: HC-CARGO 137287.*

## 131311 5★ Armature

**Manufacturer:** Remy

**Replacing:** 2004005024, 2004005023

**Servicing:** 0001417001, 0001417002, 0001417005, 0001417006, 0001417007, 0001417008, 0001417012, 0001417013, 0001417014, 0001417015

24 **V**, 6.6 **kW**, **Shaft length** 256.00, **Core thickness** 83.00, **Rotation** CR

*Clutch housing: HC-CARGO 231369.*

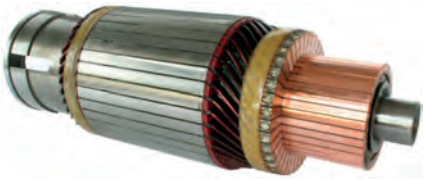
## 131379 Armature

**Replacing:** 2004014972, 2004004118

**Servicing:** 0001108025, 0001363101, 0001363104, 0001363105, 0001363107, 0001363108, 0001363109, 0001363110, 0001363111, 0001363112

24 **V**, 2.6/3.2 **kW**, **Shaft length** 290.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

**Alternative no.:** F032131379



## 131666 Armature

**Replacing:** 2004006101, 2004006091

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009, 0001510010, 0001510011

24 **V**, 9 **kW**, **Shaft length** 315.00, **Core thickness** 100.00

## 132904 Armature

**Replacing:** 2007010061, 2007010059, 2004005918, 2004005907, 2004005906, 2004005061, 2004005004, 2004005003

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

24 **V**, 7.5 **kW**, **Shaft length** 428.50, **Core thickness** 85.00, **No./splines** 19, **Rotation** CR/ACR

## 136998 Armature

**Replacing:** 2004004925, 2004004100

**Servicing:** 0001364300, 0001364301, 0001364400, 0001364402, B001841010, B001841012

24 **V**, 4.8/5.2 **kW**, **Shaft length** 355.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## 138254 Armature

**Replacing:** 9003334024

**Servicing:** 0001219001, 0001219002, 0001219003, 0001219004, 0001219005, 0001219006, 0001219007, 0001219008, 0001219009, 0001219010

24 **V**, 2.5 **kW**, **Shaft length** 158.00, **Core thickness** 50.00, **No./teeth** 18

## 138849 Armature

**Replacing:** 9001083498

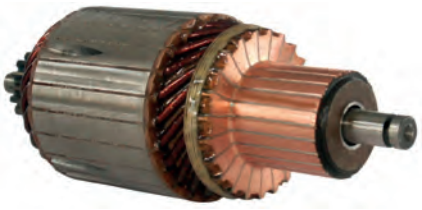
**Servicing:** 9000083043, 9000083045, 9000083063, 9000083064, 9000083065, 9000083066, 9000083068, 9000083073, 9000083076, 9000453075

24 **V**, 4 **kW**, **Shaft length** 329.00, **Core thickness** 73.00, **No./splines** 10, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 139657 Armature

**Replacing:** 9003334039, 6033AD4080, 6033AD4013, 6033AD0285

**Servicing:** 0001231001, 0001231002, 0001231003, 0001231004, 0001231005, 0001231006, 0001231007, 0001231008, 0001231009, 0001231010

24 **V**, 4 **kW**, **Shaft length** 169.00, **Core thickness** 60.00, **No./teeth** 16, **Rotation** CR

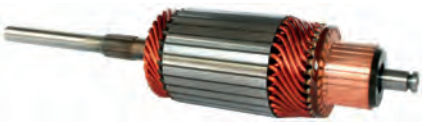
**Alternative no.:** 333496 5★

## 231272 Armature

**Replacing:** 2004014028

**Servicing:** 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012, 0001371013, 0001371014

24 **V**, 6.7 **kW**, **Shaft length** 394.00, **Core thickness** 75.00, **No./teeth** 19, **Rotation** CR

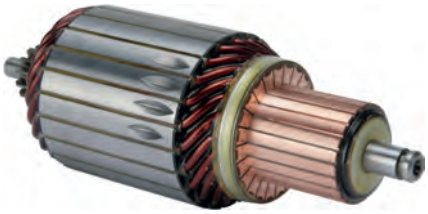


## 231493 Armature

**Replacing:** 2004014034

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0AA137200B, 0AA137200F

24 **V**, 6.2 **kW**, **Shaft length** 370.00, **Core thickness** 75.00, **No./teeth** 19, **Rotation** CR

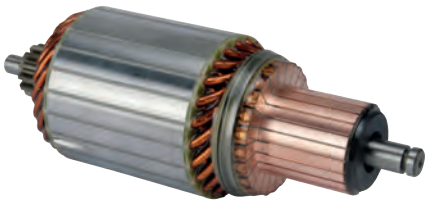


## 237748 Armature

**Replacing:** 6033AD5148

**Servicing:** 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241014, 0001241015

24 **V**, 5.5 **kW**, **Shaft length** 174.20, **Core thickness** 59.95, **No./teeth** 13, **Rotation** CR



## 239092 Armature

**Replacing:** 6033AD5025

**Servicing:** 0001241001, 0001241008, 0001241012, 0001241016, 0001241019, 0001241020, 0001241021, 0001241022, 0001241023, 0001241024

24 **V**, 5.5 **kW**, **Shaft length** 174.20, **Core thickness** 59.95, **No./teeth** 13

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## 239101 Armature

**Replacing:** 20041014091, 2004014090

**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013

24 **V**, 6 **kW**, **Shaft length** 159.50, **Core thickness** 75.00, **No./splines** 15

## 333410 5★ Armature

**Manufacturer:** Bosch

**Replacing:** 2004015007

**Servicing:** 0001261026, 0001261027, 0001261028, 0001261041, 0001261044, 0001261045, 0001261069

24 **V**, **Shaft length** 179.60, **Core thickness** 60.00, **No./teeth** 13

## 333496 5★ Armature

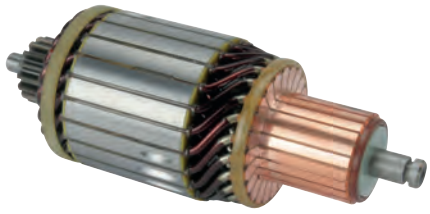
**Manufacturer:** Bosch

**Replacing:** 9003334039, 6033AD4080, 6033AD4013, 6033AD0285

**Servicing:** 0001231001, 0001231002, 0001231006, 0001231008, 0001231010, 0001231011, 0001231012, 0001231013, 0001231014, 0001231016

24 **V**, 4 **kW**, **Shaft length** 169.00, **Core thickness** 60.00, **No./teeth** 16, **Rotation** CR

**Alternative no.:** 139657



## 333771 Armature

**Replacing:** 2004015010, 2004015004

**Servicing:** 0001263001, 0001263002, 0001263003, 0001263004, 0001263005, 0001263006, 0001263008, 0001263010, 0001263012, 0001263014

**Shaft length** 168.20, **Core thickness** 60.00, **No./splines** 16, **No./teeth** 16

# Armature Parts

## Various

Pkg. 10

## 138769 Brake Washer

**ID** 12.80, **OD** 23.00, **Thickness** 1.00

Pkg. 10

## 138770 Brake Washer

**Servicing:** 0001116006, 0001116009, F000AL0321

**ID** 12.50, **OD** 31.00, **Thickness** 2.00



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#Available while stock last, * Program development.

**B134571**# Commutator

**Replacing:** B134571

**Bar dist.** 2.50, **Bar cross dist.** 36.30, **ID** 14.75, **ID/bar lane** 35.50, **OD** 57.25, **Bar length** 10.80, **Height/bar** 6.35, **Height/bar lane** 20.80, **Total height** 30.30, **No./bars** 23

**B134578**# Commutator

**Replacing:** B134578

**Bar dist.** 3.00, **Bar cross dist.** 53.20, **ID** 22.10, **ID/bar lane** 51.00, **OD** 77.00, **Bar length** 11.60, **Height/bar** 7.15, **Height/bar lane** 42.15, **Total height** 56.00, **No./bars** 29

**B134581**# Commutator

**Replacing:** B134581

**Bar dist.** 2.00, **Bar cross dist.** 34.35, **ID** 15.20, **ID/bar lane** 34.00, **OD** 42.20, **Bar length** 4.15, **Height/bar** 5.50, **Height/bar lane** 18.75, **Total height** 28.30, **No./bars** 19

## Yokes

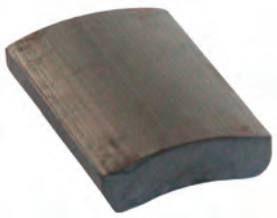
### Yoke Parts

### Magnets

Pkg. 4

**134439** Magnet

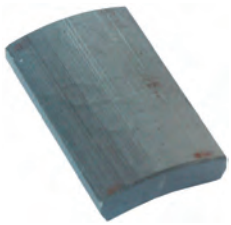
**Length** 42.00, **Height** 6.95, **Width** 25.20, *Non magnetized.*



**134896** Magnet (south)

**Servicing:** 0001107080, 0001108202, 0001108222, 0001108240, 0001121018, 0001121019, 0001121023, 0001121024, 0001121025, 0001138011

**Length** 42.20, **Height** 8.20, **Width** 25.15, **Pole type** South



**134897** Magnet (North)

**Servicing:** 0001107080, 0001108202, 0001108222, 0001108240, 0001121018, 0001121019, 0001121023, 0001121024, 0001121025, 0001138011

**Length** 42.15, **Height** 6.85, **Width** 25.15, **Pole type** North

Pkg. 10

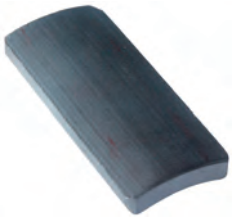
**134905**# Magnet

**Length** 60.20, **Height** 6.80, **Width** 26.75, *Non magnetized.*

Pkg. 10

**134906**# Magnet

**Length** 59.40, **Height** 6.75, **Width** 25.40, *Non magnetized.*



**135221** Magnet (north)

**Servicing:** 0001124015

**Length** 60.25, **Height** 7.00, **Width** 26.75, **Pole type** North

**135222** Magnet (south)

**Servicing:** 0001124015

**Length** 60.20, **Height** 8.00, **Width** 26.75, **Pole type** South

**135223** Magnet (south)

**Servicing:** 0001124020, 0001124021

**Length** 59.60, **Height** 8.00, **Width** 25.40, **Pole type** South

**135224** Magnet (north)

**Servicing:** 0001124020, 0001124021

**Length** 59.45, **Height** 6.70, **Width** 25.45, **Pole type** North

**230206** Magnet (south)

**Servicing:** 0001109069, 0001115015, 0001115046, 0001123001

**Length** 51.55, **Height** 7.00, **Width** 25.35, **Pole type** South



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## 230207 Magnet (north)

**Servicing:** 0001109069, 0001115015, 0001115046, 0001123001

**Length** 51.65, **Height** 7.20, **Width** 25.60, **Pole type** North

## 230209 Magnet (south)

**Servicing:** 0001105205, 0001109325, 0001109389, 0001125016, 0001125017, 0001125519, 0001125520

**Length** 51.55, **Height** 7.10, **Width** 27.10, **Pole type** South

## 230210 Magnet (north)

**Servicing:** 0001105205, 0001109325, 0001109389, 0001125016, 0001125017, 0001125519, 0001125520

**Length** 51.60, **Height** 6.70, **Width** 26.80, **Pole type** North

# Yokes w/ magnets

## 12 V

## 137168 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001912

**Servicing:** 0001110003, 0001110016, 0001110017, 0001110026, 0001110028, 0001110029, 0001110030, 0001110039, 0001110040, 0001110041

12 **V**, 1.7/1.8 **kW**, **OD/middle** 78.00, **Length** 135.00, **Brush gear** w/o, **Magnets** w/

## 137169 Yoke

**Replacing:** 1005001937, 1005001924, 1005001915

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108018, 0001108026, 0001108027, 0001108042, 0001108054

12 **V**, 1.4 **kW**, **OD/middle** 74.00, **Length** 112.55, **Brush gear** w/o, **Magnets** w/

## 137308 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** F00MAL1149, F000AL1027, 1005001953

**Servicing:** 0001112021, 0001112022, 0001113001, 0001113002, 0001113003, 0001113004, 0001113005, 0001113006, 0001113007, 0001113008

12 **V**, 0.8/0.9 **kW**, **OD/middle** 78.50, **Length** 99.65, **Brush gear** w/o, **Magnets** w/

## 137619 Yoke

**Replacing:** 1005001931, 1005001923

**Servicing:** 0001107009, 0001107012, 0001107013, 0001107015, 0001107019, 0001107025, 0001107026, 0001107030, 0001107033, 0001107034

12 **V**, 1/1.2 **kW**, **OD/middle** 74.00, **Length** 98.60, **Brush gear** w/o, **Magnets** w/

## 137620 Yoke

**Replacing:** 1005001997, 1005001934

**Servicing:** 0001123003, 0001124001, 0001124002, 0001124003, 0001124004, 0001124005, 0001124006, 0001124007, 0001124008, 0001124011

12 **V**, 1.8 **kW**, **OD/middle** 78.00, **Length** 135.00, **Brush gear** w/o, **Magnets** w/

## 137621 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 9001081020, 1005001950

**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014, 0001112015, 0001112016

12 **V**, 0.9 **kW**, **OD/middle** 78.25, **Length** 99.45, **Brush gear** w/o, **Magnets** w/

## 137622 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001976, 1005001949

**Servicing:** 0001125001, 0001125002, 0001125003, 0001125004, 0001125005, 0001125006, 0001125007, 0001125008, 0001125009, 0001125010

12 **V**, 1.8/2 **kW**, **OD/middle** 78.20, **Length** 124.60, **Brush gear** w/o, **Magnets** w/



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#Available while stock last, * Program development.

## 137729 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001978, 1005001905

**Servicing:** 0001110003, 0001110004, 0001110005, 0001110007, 0001110008, 0001110011, 0001110012, 0001110013, 0001110019, 0001110022

12 **V**, 1.7/1.8 **kW**, **OD/middle** 79.00, **Length** 135.00, **Brush gear** w/o, **Magnets** w/

## 137896 Yoke

**Replacing:** 1005001982, 1005001925

**Servicing:** 0001107014, 0001107015, 0001107016, 0001107017, 0001107018, 0001107027, 0001107028, 0001107029, 0001107031, 0001107032

12 **V**, 1.1 **kW**, **OD/middle** 74.40, **Length** 98.70, **Brush gear** w/o, **Magnets** w/

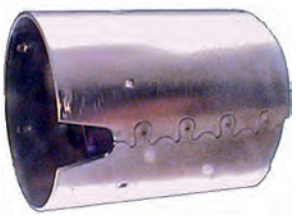
## 137897 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001948, 1005001943, 1005001843, 1005001826

**Servicing:** 0001105205, 0001109015, 0001109018, 0001109026, 0001109028, 0001109034, 0001109040, 0001109052, 0001109055, 0001109057

12 **V**, 1.8/2 **kW**, **OD/middle** 78.25, **Length** 124.65, **Brush gear** w/o, **Magnets** w/



## 137919 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 9001081095, 1005001952

**Servicing:** 0001112003, 0001112004, 0001112034, 0001112036, 0001112038, 0001112039, 9000081010, B001180008, B001180041, F000AL0401

12 **V**, 0.9 **kW**, **OD/middle** 78.50, **Length** 99.55, **Brush gear** w/o, **Magnets** w/

## 138323 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001942

**Servicing:** 0001109014, 0001109017, 0001109021, 0001109022, 0001109025, 0001109030, 0001109031, 0001109033, 0001109035, 0001109036

12 **V**, 1.6/2/2.1 **kW**, **OD/middle** 78.20, **Length** 124.60, **Brush gear** w/o, **Magnets** w/

## 139551# Yoke

**Replacing:** 1005001962

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009

12 **V**, 0.7 **kW**, **OD/middle** 78.00, **Length** 89.00, **Brush gear** w/o, **Magnets** w/

## 139574 Yoke

**Replacing:** 1005851066, 1005001946, 1005001832

**Servicing:** 0001107038, 0001115001, 0001115002, 0001115005, 0001115006, 0001115007, 0001115008, 0001115009, 0001115012, 0001115015

12 **V**, 1.7 **kW**, **OD/middle** 74.00, **Length** 120.00, **Brush gear** w/o, **Magnets** w/

## 230076 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001921, 1005001902

**Servicing:** 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107020, 0001107021, 0001107022, 0001107023

12 **V**, 1.1 **kW**, **OD/middle** 74.00, **Length** 98.50, **Brush gear** w/o, **Magnets** w/

## 230231 Yoke

**Replacing:** 1005001938, 1005001878

**Servicing:** 0001110104, 0001110110, 0001110122, 0001110123, 0001110126, 0001110127, 0001110128, 0001110129, 0001110132, 0001110136

12 **V**, 1.8 **kW**, **OD/middle** 78.00, **Length** 135.15, **Brush gear** w/o, **Magnets** w/



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#Available while stock last, * Program development.



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## 230232 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001980

**Servicing:** 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512, 0001125513, 0001125514

12 **V**, 2 **kW**, **OD/middle** 78.30, **Length** 119.55, **Brush gear** w/o, **Magnets** w/

## 230233 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001981

**Servicing:** 0001121006, 0001121007, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121018, 0001121019

12 **V**, 1.1 **kW**, **OD/middle** 74.00, **Length** 98.55, **Rotation** ACR, **Brush gear** w/o, **Magnets** w/

## 231642 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001990, 1005001987

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106017, 0001106018, 0001106019, 0001106022, 0001106023, 0001106024

12 **V**, 0.9/1 **kW**, **OD/middle** 74.00, **Length** 90.95, **Brush gear** w/o, **Magnets** w/

## 233572 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001999, 1005001812

**Servicing:** 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408, 0001107409, 0001107410

12 **V**, 1.1 **kW**, **OD/middle** 70.00, **Length** 93.85, **Brush gear** w/o, **Magnets** w/

## 233663 Yoke

**Replacing:** 1005001904

**Servicing:** 0001110001, 0001110002, 0001110009, 0001110010, 0001110014, 0001110015, 0001110018, 0001110031, 0001110032, 0001110033

12 **V**, 1.7/1.8 **kW**, **OD/middle** 79.55, **Length** 135.00, **Brush gear** w/o, **Magnets** w/

## 234735 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001947, 1005001940

**Servicing:** 0001108080, 0001108114, 0001108121, 0001108123, 0001108125, 0001108128, 0001108134, 0001108135, 0001108139, 0001108140

12 **V**, 1.4 **kW**, **OD/middle** 74.00, **Length** 112.55, **Brush gear** w/o, **Magnets** w/

## 235572 5★ Yoke

**Manufacturer:** Bosch

**Replacing:** 1005001808

**Servicing:** 0001109250, 0001109252, 0001109253, 0001109256, 0001109258, 0001109259, 0001109260, 0001109261, 0001109262, 0001109263

12 **V**, 2.2 **kW**, **OD/middle** 78.40, **Length** 124.57, **Magnets** w/

## 333418 Yoke

**Replacing:** 1005001191

**Servicing:** 0001109028, 0001109063, 0001109068, 0001109070, 0001109205, 0001109340, 0001109341, 0001109387, 0001109388, 0001109389

12 **V**, **OD/middle** 78.20, **Length** 124.60, **Magnets** w/

## 333421 Yoke

**Replacing:** 1005001853

**Servicing:** 0001108428, 0001108429

12 **V**, **OD/middle** 70.15, **Length** 109.00, **Rotation** CR, **Brush gear** w/o, **Magnets** w/

### 24 V

## 137167 Yoke

**Replacing:** 1005001903

**Servicing:** 0001108001, 0001108002, 0001108004, 0001108009, 0001108010, 0001108011, 0001108012, 0001108013, 0001108016, 0001108017

12-24 **V**, 1.4/1.6 **kW**, **OD/middle** 74.20, **Length** 112.80, **Brush gear** w/o, **Magnets** w/



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#Available while stock last, * Program development.

**333631** Yoke

**Replacing:** 6033AD4177

**Alternative no.:** 333597 5★

## Yokes

### Yoke Parts

### Magnet Gripper

Pkg. 5

**138361** Magnet Gripper

**Servicing:** 0001105205, 0001109069, 0001109325, 0001109389, 0001124015, 0001125519, 0001125520, 0001139015, 0001139016

**Total length** 61.00, **Width** 9.55

Pkg. 5

**138362** Magnet Gripper

**Servicing:** 0001106014, 0001106023, 0001107080, 0001107402, 0001107406, 0001107410, 0001107425, 0001107428, 0001107439, 0001107440

**Mount. hole** 3.28/5.60, **ID** 7.90, **Thickness** 5.80

## Field Cases

**139697** Yoke Assembly/Field Case

**Replacing:** 6033AD4109, 6033AD4108, 6033AD4107, 6033AD4096, 6033AD4092, 6033AD4064, 6033AD0151, 6033AD0128

**Servicing:** 0001231001, 0001231002, 0001231003, 0001231004, 0001231005, 0001231006, 0001231007, 0001231008, 0001231009, 0001231010

24 **V**, 4 **kW**, **OD/middle** 95.30, **Length** 121.00, **Brush gear** w/

**Alternative no.:** 333533 5★

**230993** 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD1251, 6033AD0225, 6033AD0160, 6033AD0058

**Servicing:** 0001223002, 0001223004, 0001223008, 0001223016, 0001223021, 0001223022, 0001223104

12 **V**, 2.3 **kW**, **OD/middle** 85.65, **Length** 96.30, **Brush gear** w/

**231652** 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD1248, 6033AD1110, 6033AD0311

**Servicing:** 0001223005, 0001223013, 0001223014

12 **V**, 2.3 **kW**, **OD/middle** 85.65, **Length** 92.20, **Brush gear** w/

**233477** 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD3281, 6033AD3192, 6033AD3191, 6033AD3149, 6033AD3132, 6033AD3019, 6033AD0167, 6033AD0165

**Servicing:** 0001230001, 0001230002, 0001230003, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010, 0001230011

12 **V**, 3 **kW**, **OD/middle** 113.10, **Length** 141.95, **Brush gear** w/

*Field case: HC-CARGO 234193.*

**233922** 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD1245, 6033AD0162, 6033AD0007

**Servicing:** 0001223001, 0001223002, 0001223003, 0001223007, 0001223010, 0001223011, 0001223012, 0001223018, 0001223019, 0001223024

12 **V**, 2.3 **kW**, **OD/middle** 85.70, **Length** 98.90, **Brush gear** w/

*Brush gear: HC-CARGO 231648. Brush set: HC-CARGO BSX192-1934.*

**234392** 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD1254, 6033AD1109, 6033AD0209

**Servicing:** 0001223005, 0001223006, 0001223013

12 **V**, 2.3 **kW**, **OD/middle** 85.65, **Length** 93.95, **Brush gear** w/, **Magnets** w/



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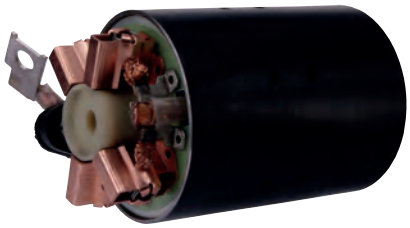
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 330031 Field Case

**Replacing:** 6033AD3283

**Servicing:** 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230014

12 **V**, 3 **kW**, **OD/middle** 95.50, **Length** 120.70, **Rotation** CR, **Brush gear** w/

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## 333417 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 2005005182

**Servicing:** 0001261007, 0001261008, 0001261012, 0001261014, 0001261016, 0001261022, 0399504011

24 **V**, **OD/middle** 95.25, **Length** 126.40, **Rotation** CR

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## 333419 Field Case

**Replacing:** 6033AD4199

**Servicing:** 0001231040, 0001231041

24 **V**, **OD/middle** 95.00, **Length** 120.70, **Brush gear** w/

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## 333420 Field Case

**Replacing:** 6033AD4156

**Servicing:** 0001231036

24 **V**, **OD/middle** 95.00, **Length** 120.70, **Brush gear** w/

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## 333533 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD4109, 6033AD4108, 6033AD4107, 6033AD4096, 6033AD4092, 6033AD4064, 6033AD0151, 6033AD0128

**Servicing:** 0001231008, 0001231013, 0001231014, 0001231017, 0001231018, 0001231019, 0001231023, 0001231026, 0001231027, 0001231028

24 **V**, **OD/middle** 95.30, **Length** 120.70, **Brush gear** w/

**Alternative no.:** 139697

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## 333597 5★ Field Case

**Manufacturer:** Bosch

**Replacing:** 6033AD4177

**Servicing:** 0001231016, 0001231033, 0001231146

**OD/middle** 95.30, **Length** 120.70, **Brush gear** w/

**Alternative no.:** 333631

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## Field Houses

## 234054# Field House

**Servicing:** 0001218172, 0001218173

**Length** 77.00

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## 234193 Field House

**Servicing:** 0001367005, 0001367017, 0001367034, 0001367059, 0001367077, 0001367300, 0001367301, 0001367303, 0001368311

**Length** 142.00

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## 234508# Field House

**Servicing:** 0001364400

**OD/middle** 116.00, **Length** 157.00, **Brush gear** w/o

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## 234509# Field House

**Servicing:** 0001369023

**OD/middle** 116.00, **Length** 127.00

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## 235134# Field House

**Servicing:** 0001360061, 0001360063

**OD/middle** 113.00, **Length** 137.00, **Brush gear** w/o

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## 235423# Field House

**Servicing:** 0001218116, 0001218117, 0001218125, 0001218153, 0001218158, 0001218159, 0001218175, 0001218177, 0001218725

**OD/middle** 93.50, **Length** 75.00

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## Field House Parts

### Pole Shoes

Pkg. 10

**234196**# Pole Shoe

**Servicing:** 0001368311, 0001372006

**Length** 84.00, **Thread size** M10, **Height** 15.20, **Width** 40.00

**234197**# Pole Shoe

**Length** 99.60, **Thread size** M10, **Height** 15.75, **Width** 41.15

## Field Coils

### 12 V

**130065** Field Coil

**Replacing:** 1004112548, 1004112542, 1004112540, 1004112535, 1004112532

**Servicing:** 0001211204, 0001211205, 0001211206, 0001211207, 0001211208, 0001211209, 0001211210, 0001211213, 0001211214, 0001211215

12 **V**, 0.8 **kW**

**130124** Field Coil

**Replacing:** 2004112004, 1004112537

**Servicing:** 0001211200, 0001211201, 0001211221, 0001211222, 0001211241, 0001211992, 0001211993, 0001212208, 0001212209, 9000692062

12 **V**, 0.8 **kW**, **Height** 75.40, **Width** 197.00, **Internal height** 40.50, **Inner width** 26.70, **Rotation** ACR

**130128** 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** 2004114169

**Servicing:** 0001359002, 0001359003, 0001359021, 0001359031, 0001359033, 0001359035, 0001359038, 0001359049, 0001359050, 0001359053

12 **V**, 3 **kW**, **Height** 133.50, **Width** 275.60, **Internal height** 85.60, **Inner width** 32.50

**130323** Field Coil

**Replacing:** 2004105017, 2004105015, 2004105012

**Servicing:** 0001400016, 0001401007, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401044

12 **V**, 3 **kW**, **Height** 115.85, **Internal height** 73.60, **Inner width** 28.60

**130325** Field Coil

**Replacing:** 2004115043, 2004115042, 2004115041, 2004115040

**Servicing:** 0001401007, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401044, 0001401045

12 **V**, 3 **kW**, **Height** 116.00, **Internal height** 71.25, **Inner width** 28.65

**131134** 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** 2004114297, 2004114291, 2004114137, 2004114060

**Servicing:** 0001367001, 0001367002, 0001367003, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010

12 **V**, 3 **kW**, **Height** 128.30, **Internal height** 87.00, **Inner width** 32.25

**131313** Field Coil

**Replacing:** 2004114298, 2004114289, 2004114241, 2004114189, 2004114188, 2004114177, 2004114148, 2004114146

**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038, 0001362039, 0001362040, 0001362041

12 **V**, 1.9/2/2.2/2.4 **kW**, **Height** 112.25, **Internal height** 71.65, **Inner width** 32.60

**131314** Field Coil

**Replacing:** 2004114145, 2004114143, 2004114085

**Servicing:** 0001362092, 0001362300, 0001362301, 0001362302, 0001362303, 0001362304, 0001362305, 0001362306, 0001362307, 0001362308

12 **V**, 2.3/2.7 **kW**, **Height** 113.55, **Internal height** 72.85, **Inner width** 33.00

**131674**# Field Coil

**Replacing:** 1004112567

**Servicing:** 0001208204, 0001208220, 0001208232, 9000082051, 9000333118, 9000333119, B001208261

12 **V**, 0.85 **kW**, **Height** 73.60, **Internal height** 41.00, **Inner width** 27.00

**131677** Field Coil

**Replacing:** 2004114117, 2004114116, 2004114115, 2004114109, 2004114105, 2004114104, 2004114100

**Servicing:** 0001354004, 0001354005, 0001354016, 0001354018, 0001354027, 0001354029, 0001354031, 0001354036, 0001354055, 0001354064

12 **V**, 1.8 **kW**, **Height** 107.15, **Internal height** 62.00, **Inner width** 30.00



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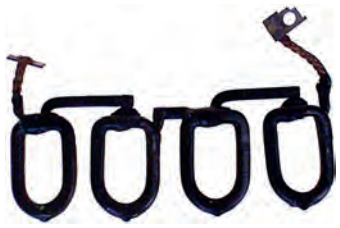
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 132144[#] Field Coil

**Replacing:** 1004112900

**Servicing:** 0001211500, 0001211501, 0001211502, 0001211503, 0001211504, 0001211505, 0001211510, 0001211511, 0001211512, 0001211513

12 **V**, 0.8 **kW**, **Height** 70.50, **Width** 196.60, **Internal height** 41.00, **Inner width** 26.00

## 132154 Field Coil

**Replacing:** 1004113536, 1004113516, 1004113416

**Servicing:** 0001312100, 0001312110, 0001314003, 0001314004, 0001314008, 0001314012, 0001314013, 0001314016, 0001314031, 0001314039

12 **V**, 1.5 **kW**, **Height** 102.65, **Internal height** 69.20, **Inner width** 28.10

## 132356 Field Coil

**Replacing:** 2004114005, 2004114004

**Servicing:** 0001358017, 0001358018, 0001358020, 0001358026, 0001358033, 0001358035, 0001358038, 0001358040, 0001358046, 0001358047

12 **V**, 3.2 **kW**, **Height** 131.75, **Internal height** 86.55, **Inner width** 28.70

## 132360 Field Coil

**Replacing:** 2004125089, 2004125087, 2004125086, 2004125085

**Servicing:** 0001413001, 0001413002, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010

12 **V**, 3.5/3.6 **kW**, **Height** 115.00, **Internal height** 65.60, **Inner width** 28.00

## 132585 Field Coil

**Replacing:** 1004112906

**Servicing:** 0001218001, 0001218004, 0001218006, 0001218007, 0001218009, 0001218011, 0001218012, 0001218013, 0001218015, 0001218016

12 **V**, 2.2 **kW**, **Height** 83.09, **Internal height** 50.45, **Inner width** 18.65

## 133100 Field Coil

**Replacing:** 1004114547, 1004112547

**Servicing:** 0001211223, 0001211224, 0001211241, 0001211251, 0001211252, 0001211253, 0001211254, 0001211255, 0001211256, 0001211257

12 **V**, 0.7/0.8 **kW**, **Height** 72.65, **Internal height** 41.00, **Inner width** 26.90

## 133101 Field Coil

**Replacing:** 1004113900, 1004113100

**Servicing:** 0001312108, 0001312109, 0001317007, 0001317008, 0001317013, 0001317022, 0001317023, 0001317024, 0001317025, B001329009

12 **V**, 1.7 **kW**, **Height** 111.55, **Internal height** 75.00, **Inner width** 26.00

## 133184 Field Coil

**Replacing:** F002G20186, 1004111005, 1004111004, 1004111002

**Servicing:** 0001157012, 0001157013, 0001157014, 0001157015, 0001157018, 0001157020, 0001157021, 0001157022, 0001157023, 0001157024

12 **V**, 0.7 **kW**, **Height** 80.85, **Internal height** 50.00, **Inner width** 21.45

## 133307 Field Coil

**Replacing:** 1004112904

**Servicing:** 0001208510, 0001208515, 0001208517, 0001208526, 0001208528, 0001208717, 9000333114, 9000333117, B001208323, B001208338

12 **V**, 0.85 **kW**, **Height** 77.30, **Width** 199.00, **Internal height** 46.80, **Inner width** 25.75

## 134012 Field Coil

**Replacing:** 1004113537, 1004113535, 1004113519

**Servicing:** 0001311042, 0001312101, 0001312103, 0001312104, 0001312105, 0001312106, 0001312107, 0001314002, 0001314005, 0001314014

12 **V**, 1.5 **kW**, **Height** 104.75, **Internal height** 68.20, **Inner width** 28.30

## 134030[#] Field Coil

**Replacing:** 1004112905, 1004112105

**Servicing:** 0001208513, 0001208521, 0001208702, 0001208705, 0001208706, 0001208707, 0001208708, 0001208709, 0001208710, 0001208711

12 **V**, 0.95 **kW**, **Height** 80.75, **Internal height** 46.90, **Inner width** 26.20

## 134091 Field Coil

**Replacing:** 1004112545

**Servicing:** 0001208172, 0001208200, 0001208201, 0001208203, 0001208204, 0001208205, 0001208206, 0001208208, 0001208211, 0001208214

12 **V**, 0.85 **kW**, **Height** 79.00, **Internal height** 47.10, **Inner width** 26.20



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[#]Available while stock last, * Program development.

## 134359 Field Coil

**Replacing:** 1004113552, 1004113522

**Servicing:** 0001311100, 0001311101, 0001311103, 0001311104, 0001311105, 0001311106, 0001311107, 0001311108, 0001311109, 0001311110

12 **V**, 1.1 **kW**, **Height** 95.00, **Internal height** 56.75, **Inner width** 29.15

## 134527 Field Coil

**Replacing:** 9001082568, 1004112564, 1004112553

**Servicing:** 0001208213, 0001208411, 0001208412, 0001208414, 0001208415, 0001208416, 0001208417, 0001208418, 0001208419, 0001208425

12 **V**, 0.95 **kW**, **Height** 81.50, **Internal height** 46.60, **Inner width** 26.20

## 136987 Field Coil

**Replacing:** 2004114178, 2004114149, 2004114147

**Servicing:** 0001362010, 0001362058, 0001362085, 0001362094, 0001362099, 0001362104, 0001366003, 0001366005, 0001366006, 0001366010

12 **V**, 1.9/2.4 **kW**, **Height** 105.20, **Internal height** 71.00, **Inner width** 32.85

## 137234 Field Coil

**Replacing:** 2007010070, 2004114233, 2004114092, 2004114087, 2004114086

**Servicing:** 0001369001, 0001369002, 0001369003, 0001369004, 0001369005, 0001369006, 0001369007, 0001369012, 0001369013, 0001369014

12 **V**, 3.1 **kW**, **Height** 114.20, **Internal height** 72.25, **Inner width** 32.80

## 138317 Field Coil

**Replacing:** 2004114062, 2004114061

**Servicing:** 0001367027, 0001367036, 0001367046, 0001367051, 0001367054, 0001367057, 0001367063, 0001367077, 0001367081, B001816041

12 **V**, 3.2 **kW**, **Height** 129.85, **Internal height** 88.10, **Inner width** 35.25

## 230194 Field Coil

**Replacing:** 1004112519

**Servicing:** 0001208006, 0001208014, 0001208017, 0001208048, 0001212002, 0001212003, 0001214002, AL/EEF0.8/12L1

12 **V**, 0.8 **kW**, **Height** 87.20, **Internal height** 63.25, **Inner width** 22.25, **Rotation** ACR

## 232187# 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** F002G20188, 9001140272

**Servicing:** 9000141104, 9000334101

12 **V**, 0.65 **kW**, **Height** 84.20, **Internal height** 53.00, **Inner width** 19.80, **Rotation** ACR

## 232625 Field Coil

**Servicing:** 0001218162, 0001218165

12 **V**, 2.2 **kW**, **Height** 74.30, **Internal height** 43.20, **Inner width** 22.45

## 232627 Field Coil

**Servicing:** 0001218172, 0001218173

12 **V**, 2.2 **kW**, **Height** 73.55, **Internal height** 41.50, **Inner width** 22.20

## 235664 Field Coil

**Replacing:** 1004112907

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

12 **V**, 2.2 **kW**, **Height** 80.00, **Width** 79.50, **Internal height** 48.95, **Inner width** 18.95

### 24 V

## 130127 Field Coil

**Replacing:** 2004114168

**Servicing:** 0001359101, 0001360004, 0001360005, 0001360010, 0001360012, 0001360014, 0001360020, 0001360022, 0001360023, 0001360026

24 **V**, 4 **kW**, **Height** 127.00, **Width** 277.00, **Internal height** 86.50, **Inner width** 33.00

## 130130 5★ Field Coil

**Manufacturer:** Remy

**Replacing:** 2004125052, 2004125036, 2004125031, 2004125030, 2004125029, 2004125009, 2004125008, 2004125007

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

24 **V**, 5.5/6.5 **kW**, **Height** 152.25, **Width** 308.00, **Internal height** 100.50, **Inner width** 28.60 *Long.*



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#Available while stock last, * Program development.



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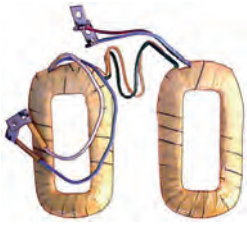
## 130131 Field Coil

**Manufacturer:** Remy

**Replacing:** 2004125080, 2004125078, 2004125075

**Servicing:** 0001413017, 0001414001, 0001414002, 0001414003, 0001414004, 0001414005, 0001414006, 0001414007, 0001414008, 0001414009

24 **V**, 5 **kW**, **Height** 120.50, **Width** 307.50, **Internal height** 65.70, **Inner width** 28.40
*Short.*



## 130322 Field Coil

**Replacing:** 2004105020, 2004105009

**Servicing:** 0001402007, 0001402008, 0001402018, 0001402031, 0001402034, 0001402041, 0001402043, 0001402050, 0001402052, 0001402054

24 **V**, 4 **kW**, **Height** 114.15, **Internal height** 72.25, **Inner width** 28.40

## 131074 Field Coil

**Replacing:** 2004114295, 2004114290, 2004114135, 2004114134, 2004114067, 2004114065

**Servicing:** 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008, 0001368009, 0001368010

24 **V**, 4 **kW**, **Height** 127.60, **Internal height** 86.75, **Inner width** 33.30

## 131312 Field Coil

**Manufacturer:** Remy

**Replacing:** 2004125083, 2004125076, 2004105048

**Servicing:** 0001416055, 0001417001, 0001417002, 0001417003, 0001417004, 0001417005, 0001417006, 0001417007, 0001417008, 0001417009

24 **V**, 5.4/6.6 **kW**, **Height** 138.25, **Internal height** 85.20, **Inner width** 29.40

## 131341 Field Coil

**Replacing:** 2004114258

**Servicing:** 0001108169, 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106, 0001364108, 0001364200

24 **V**, 4.8/5.2 **kW**, **Height** 146.65, **Internal height** 101.00, **Inner width** 32.90

## 132358 Field Coil

**Replacing:** 2004114186, 2004114185, 2004114180

**Servicing:** 0001363001, 0001363002, 0001363101

24 **V**, 2/2.6 **kW**, **Height** 111.00, **Internal height** 72.45, **Inner width** 32.70

## 132905 Field Coil

**Replacing:** 2004115013

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

24 **V**, 7.5 **kW**, **Height** 150.80, **Internal height** 101.85, **Inner width** 32.60

## 138255 Field Coil

**Servicing:** 0001219001, 0001219005, 0001219006, 0001219007, 0001219008, 0001219009, 0001219011, 0001219012, 0001219014

24 **V**, 2.2/2.5 **kW**, **Height** 80.15, **Internal height** 48.55, **Inner width** 19.25

## 138314 Field Coil

**Replacing:** 2004114234, 2004114066, 2004114064

**Servicing:** 0001368018, 0001368030, 0001368031, 0001368035, 0001368036, 0001368041, 0001368057, 0001368061, 0001368064, 0001368065

24 **V**, 4 **kW**, **Height** 127.00, **Internal height** 86.15, **Inner width** 33.65

## 138318 Field Coil

**Replacing:** 2004114260

**Servicing:** 0001364300, 0001364301, 0001364400, 0001364402, B001841010, B001841012

24 **V**, 4.8/5.2 **kW**, **Height** 142.80, **Internal height** 100.45, **Inner width** 33.00

## 139587 Field Coil

**Replacing:** 2004116099

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019

24 **V**, 9 **kW**, **Height** 169.45, **Internal height** 100.70, **Inner width** 33.35



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#Available while stock last, * Program development.

## 139989 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** 9003334151

**Servicing:** 0001219001, 0001219002, 0001219003, 0001219004, 0001219005, 0001219006, 0001219007, 0001219008, 0001219009, 0001219011

24 **V**, 2.2/2.5 **kW**, **Height** 77.65, **Internal height** 49.35, **Inner width** 19.00

*Field coil: HC-CARGO 138255.*

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## 230841 Field Coil

**Replacing:** 9001453717, 2004124001

**Servicing:** 0001370001, 0001370002, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010

24 **V**, 6.7 **kW**, **Height** 150.80, **Internal height** 99.25, **Inner width** 33.75

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## 231085 Field Coil

**Replacing:** 2004124006, 2004124005

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0AA137200B, 0AA137200F

24 **V**, 6.2 **kW**, **Height** 129.70, **Internal height** 86.10, **Inner width** 31.15

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# C.E. Brackets

## 132217 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2000520057, 2000520055

**Servicing:** 0001358200, 0001358201, 0001358202, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359014, 0001359016

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## 133488 C.E. Bracket

**Replacing:** 2000580160, 2000580127, 2000580121

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029, 0001410035, 0001410037

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## 133489 C.E. Bracket

**Replacing:** 2005885073, 2005855383, 2005855381, 2005855379, 2005855365, 2005855325, 2005855166, 2005855165

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410021, 0001410026, 0001410029, 0001410032, 0001410033, 0001410034

**Kl. 30** M10, **Kl. 31** M10, **ID** 111.00, **Double isolation** w/o

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## 133490 C.E. Bracket

**Replacing:** 2005855382, 2005855372, 2005855366, 2005855326, 2005855174, 2005855173

**Servicing:** 0001410019, 0001410022, 0001410024, 0001410037, 0001410047, 0001410049, 0001410050, 0001410051, 0001410064, 0001410068

**Kl. 30** M10, **Kl. 31** M10, **Double isolation** w/

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## 133908 C.E. Bracket

**Replacing:** 2005854199, 2005854198, 2005854195, 2005854143, 2005854116, 2005854110, 2005854107, 2005854100

**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038, 0001362039, 0001362040, 0001362041

**ID** 60.00

*Moulded aluminium.*

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## 134440 5★ C.E. Bracket

**Replacing:** 2000580103

**Servicing:** 0001410053, 0001410063, 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017

*Bosch.*

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## 136547# C.E. Bracket

**Replacing:** 1005852336

**Servicing:** 0001208515, 0001208517, 0001208526, 0001208528, 0001208717, 9000333117, B001208323, B001208338, B001232021

**Double isolation** w/o

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## 136558 C.E. Bracket

**Replacing:** 2005855373, 2005855371, 2005855333, 2005855331, 2005855276, 2005822333

**Servicing:** 0001416010, 0001416044, 0001416045, 0001417037, 0001417059, 0001714059, B001411040, B001450109, B001450127, B001450199

**Kl. 30** M12, **Kl. 31** M10, **Double isolation** w/

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#Available while stock last, * Program development.

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## 136559 C.E. Bracket

**Replacing:** 2005855378, 2005855377, 2005855368, 2005855338, 2005855306, 2005855299, 2005855298, 2005855297

**Servicing:** 0001410024, 0001410065, 0001410088, 0001411007, 0001411009, 0001411017, 0001411025, 0001411026, 0001411027, 0001416002

**Kl. 30** M12, **Kl. 31** M10

## 137000 C.E. Bracket

**Replacing:** 2005855376

**Servicing:** 0001417065, 0001417069, B001411400

**Kl. 30** M12, **Kl. 31** M12

## 137985 C.E. Bracket

**Replacing:** 9001338878

**Servicing:** 0001218157, 9000331201, 9000331203

**Double isolation** w/o

## 138924 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005851097, 1005851069, 1005851008

**Servicing:** 0001109011, 0001109012, 0001109023, 0001109029, 0001109044, 0001109047, 0001110001, 0001110002, 0001110009, 0001110010

**Double isolation** w/o

## 139065 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005853388, 1005853385, 1005853381

**Servicing:** 0001310006, 0001310007, 0001310008, 0001310009, 0001310010, 0001310011, 0001310016, 0001310018, 0001310019, 0001310023

## 139357 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** F000AL1421, 1005851153, 1005851071, 1005851068, 1005851012, 1005821071, 1005821012

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106017, 0001106018, 0001106019, 0001106022, 0001106023, 0001106024

**ID** 10.00

## 139547 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005851095, 1005851093, 1005851070, 1005851042, 1005851010

**Servicing:** 00010DB98E, 0001105205, 0001109001, 0001109002, 0001109003, 0001109006, 0001109007, 0001109008, 0001109009, 0001109014

**ID** 10.00

## 230078 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** F000AL1528, 1005851072, 1005851016

**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014, 0001112015, 0001112016

## 230175 C.E. Bracket

**Replacing:** 9001140349, 6033AD1267

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218007, 0001218008, 0001218010, 0001218011, 0001218012, 0001218013

## 230616 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005854207, 2005854149

**Servicing:** 0001362092, 0001362096, 0001362700, 0001363120, 0001363122, 0001368068, 0001368073, 0001368312, 9000143602, B001812388

**ID** 105.50

## 230773 C.E. Bracket

**Replacing:** 1005851151, 1005851073, 1005851014

**Servicing:** 0001106016, 0001106020, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107020, 0001107021

## 231088 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005854183, 2005854173

**Servicing:** 0001368316, 0001372001, 0001372006, 0AA137200B, 0AA137200F, 0AA137200G, B001960018



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#Available while stock last, * Program development.

## 231273 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 2005854212, 2005854181
**Servicing:** 0001371006, 0001371008

## 231357 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 6033AD0180, 6033AD0149
**Servicing:** 0001230002, 0001230009, 0001231002, 0001231003, 0001231008, 0001231011, 0001231012, 0001231016, 0001231029, 0001231032
**ID** 10.00

## 231650 C.E. Bracket

**Replacing:** 6033AD0056
**Servicing:** 0001223002, 0001223003, 0001223004, 0001223005, 0001223007, 0001223008, 0001223016, 0001223021, 0001223022, 0001223024
**ID** 85.20

## 233571 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 1005851105
**Servicing:** 0001106405, 0001106406, 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408
**ID** 16.55

## 234221 C.E. Bracket

**Replacing:** 6033AD0175
**Servicing:** 0001230006, 0001230014
**ID** 82.95

## 234371 C.E. Bracket

**Replacing:** 6033AD0141
**Servicing:** 0001231007, 0001231019, 0001231023, 0001231030, 0001231034, 0001231119

## 234395 C.E. Bracket

**Replacing:** 6033AD0325
**Servicing:** 0001223013
**ID** 70.00

## 234531# C.E. Bracket

**Replacing:** 2005854211, 2005854179
**Servicing:** 0001371004, 0001371010, 0001371013, 0001371018, 0001371020, 0001371120
**ID** 103.30

## 234791 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 6033AD0290, 6033AD0197
**Servicing:** 0001123004, 0001231004, 0001231014

## 234899 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 6033AD0016
**Servicing:** 0001218728, 0001218741, 0001218768, 0001218774, 0001223001, 0001223006, 0001223009, 0001223010, 0001223014
**ID** 80.00

## 235534 C.E. Bracket

**Replacing:** 9003338886, 1005852312, 1005852311, 1005852309
**Servicing:** 0001218006, 0001218009, 0001218021, 0001218026, 0001218028, 0001218108, 0001218134, 0001218136, 0001218140, 0001218150

## 235585 5★ C.E. Bracket

**Manufacturer:** Bosch
**Replacing:** 6033AD0198
**Servicing:** 0001230003, 0001230004, 0001230005, 0001231009
**ID** 83.60



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**235603** 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005854118

**Servicing:** 0001368008, 0001368046, 0001368048, 0001368064

**ID** 105.75, **Double isolation** w/o

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**235604** 5★ C.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005854145

**Servicing:** 0001362313, 0001362700, 0001362701, 0001362705, 0001367067, 0001367301, 0001367303, 0001368062, 0001368077, 0001368307

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**333750*** C.E. Bracket

**Replacing:** 2005854229, 2005854227

**Servicing:** 0001330012, 0001330013, 0001330014, 0001330501, 0001330502, 000133E101, 000133F102, 000133F407, 000133F707, 0001340501

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## D.E. Brackets

**132049** D.E. Bracket

**Replacing:** 2005825226, 2005825186, 2005825169, 2005825087, 2005825083

**Servicing:** 0001410021, 0001410029, 0001410038, 0001410044, 0001410046, 0001410050, 0001410053, 0001410062, 0001410063, 0001410067

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**132219** D.E. Bracket

**Replacing:** 2005834341, 2005824843, 2005824666, 2005824570

**Servicing:** 0001358048, 0001358050, 0001359043, 0001359084, 0001359107, 0001360022, 0001360037, 0001360052, 0001360065, 0001360222

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**132220** D.E. Bracket

**Replacing:** 2005825099

**Servicing:** 0001410037, 0001415007, 0001415008, 0001417042, 0001417043, 9000084012, 9000084013

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**132221** D.E. Bracket

**Replacing:** 2005825218

**Servicing:** 0001410024, 0001410088, 0001411009, 0001411022, 0001413017, 0001415001, 0001416002, 0001416010, 0001416078, 0001417001

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**134056#** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005834064, 2005824864

**Servicing:** 0001359118, 0001360061, 0001367026, 0001367073, 0001368017, 0001368063, 0001368074, B001816159, B001816160, B001816394

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**134058#** D.E. Bracket

**Replacing:** 1005823456

**Servicing:** 0001317011, 0001317012, 0001317016, 0001317017, B001329013, B001329029

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**134060** D.E. Bracket

**Replacing:** 1005821277, 1005821126

**Servicing:** 0001110013, 0001110019, 0001110043, 0001110064, 0001110088, 0001110104, 0001110105, B001117018, B001117057, B001117070

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**134116#** D.E. Bracket

**Replacing:** 1007010035, 1005822389

**Servicing:** 0001208425, 0001208426, 0001208428, 0001208429, 0001211251, 0001211252, 0001211253, 0001211254, B001208256, B001211204

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**134130** D.E. Bracket

**Replacing:** 2005834337, 2005834197, 2005834196, 2005824549

**Servicing:** 0001362016, 0001362034, 0001362091, 0001362305, 0001362313, 0001362703, 0001369014, 0001369024, B001812174, B001812325

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**134131**# D.E. Bracket

**Replacing:** 1005821231

**Servicing:** 0001108054, 0001108065, 0001108108, 0001108115, B001111158, B001111219, B001111349

**134134** D.E. Bracket

**Replacing:** 1005822456

**Servicing:** 0001208416, 0001208417, 0001208418, 0001208419, 0001211257, 0001211258, B001208243, B001211201

**134136** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005823111

**Servicing:** 0001312100, 0001312110, B001322002, B001322022

**134318** D.E. Bracket

**Replacing:** 2005824909, 2005824695

**Servicing:** 0001359014, 0001359074, 0001360009, 0001360029, 0001362063, 0001362300, 0001367001, 0001369016, B001812289

**134319** D.E. Bracket

**Replacing:** 2005834747, 2005834027, 2005824747

**Servicing:** 0001359032, 0001359101, 0001360010, 0001360038, 0001360039, 0001360057, 0001367033, 0001367038, 0001367057, 0001367068

**134362** D.E. Bracket

**Replacing:** 2005834311, 2005834073, 2005824906

**Servicing:** 0001359122, 0001360063, 0001367029, 0001368020, B001816053, B001816054

**134393**# D.E. Bracket

**Replacing:** 2005834155, 2005824425

**Servicing:** 0001359016, 0001359090

**134403** D.E. Bracket

**Replacing:** 2005824738, 2005824579

**Servicing:** 0001359051, 0001359089, 0001360010, 0001360023, 0001360036

**134406** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005821596, 1005821190

**Servicing:** 0001110025, 0001110082, 0001110125, B001117224, B001117297

**134435**# D.E. Bracket

**Replacing:** 9002338837

**Servicing:** 0001218818, 6033A1J05B, 9000331406, 9000331421, 9000331424, 9000331430

**134493** D.E. Bracket

**Replacing:** 2005834325, 2005834009, 2005824916, 2005824692, 2005824325

**Servicing:** 0001359003, 0001359012, 0001359027, 0001359046, 0001359049, 0001359073, 0001359078, 0001359105, 0001360012, 0001360014

**134536**# D.E. Bracket

**Replacing:** 2005824780

**Servicing:** 0001364102, 0001364200, 0001364201, 0001364203, 0001364204, B001819014, B001819102, B001819202, B001819206

**134610**[#] D.E. Bracket

**Replacing:** 1005822396

**Servicing:** 0001208211, 0001208507, B001208306

**134677** D.E. Bracket

**Replacing:** 1005821299, 1005821285, 1005821055

**Servicing:** 0001108001, 0001108002, 0001108009, 0001108010, 0001108016, 0001108017, 0001108026, 0001108027, 0001108028, 0001108029

**134815** D.E. Bracket

**Replacing:** 1005821272

**Servicing:** 0001108040, 0001108071, 0001108082, 0001108111, 0001108152, 0001108158, B001111238, B001111280, B001111357

**134850**[#] D.E. Bracket

**Replacing:** 1005821737, 1005821065

**Servicing:** 0001110001, 0001110002, 0001110014, 0001110015, 0001110076, 0001110077, 0001110098, 0001110099, 0001110133, 0001110134

**134864** D.E. Bracket

**Replacing:** 1005821103

**Servicing:** 0001110009, 0001110010, B001117030

**135214** D.E. Bracket

**Replacing:** 2005824849, 2005824383

**Servicing:** 0001362001, 0001362002, 0001362029, 0001362030, 0001362047, 0001362600, 0001369004, 9000143408, B001812265, B001828041

**135289**[#] D.E. Bracket

**Replacing:** 2005834173

**Servicing:** 0001367056, 0001368038, B001816129, B001816130

**135806** D.E. Bracket

**Replacing:** 1005821070

**Servicing:** 0001110003, 0001110026, 0001110089, 0001110095, 0001110114, B001117311

**135892** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831144, 1005821480, 1005821291

**Servicing:** 0001110022, 0001110023, 0001110045, 0001110046, 0001110066, 0001110067, 0001110106, 0001110107, 0001110108, 0001110122

**135897** D.E. Bracket

**Replacing:** 1005821088

**Servicing:** 0001108018, 0001108064, B001111079, B001111218

**135912** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005834035

**Servicing:** 0001368016, 0001368043, 0001368056, 0001368317, B001816150, B001816334, B001816548, B001816592

**135914** D.E. Bracket

**Replacing:** 1005821153

**Servicing:** 0001108030, 0001108088, B001111060, B001111299



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**135915** D.E. Bracket

**Replacing:** 1005821096

**Servicing:** 0001109017, 0001109049, 0001110007, 0001110008, B001117011

**135984**# D.E. Bracket

**Replacing:** 1005821599

**Servicing:** 0001107014, 0001108004, 0001108033, 0001108087, 0001108106, B001110071, B001111124, B001111287, B001111351

**136049** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 9002338856

**Servicing:** 0001218024, 0001218103, 0001218703, B001233151

**136090** D.E. Bracket

**Replacing:** 2005825355

**Servicing:** 0001416062, 0001416067, 0001416068, B001450253, B001450288, B001450291

**136127**# D.E. Bracket

**Replacing:** 2005834147

**Servicing:** 0001360026, 0001360058, 0001368034, 0001368078, B001816098, B001816426

**136134** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005821649, 1005821468

**Servicing:** 0001107003, 0001107004, 0001107022, 0001107023, 9000081001, B001110041, B001110100, F000AL0125

**136199** D.E. Bracket

**Replacing:** 1005821683, 1005821058

**Servicing:** 0001108003, 0001108124, 0001108149, B001111010, B001111044, B001111100, B001111143, B001111392

**136233** D.E. Bracket

**Replacing:** 2007010106, 2007010082

**Servicing:** 0001362307, B001812330

**136290** D.E. Bracket

**Replacing:** 9003335895, 9002338852

**Servicing:** 0001218019, 0001218101, 0001218163, 0001218167, 0001218763, 0001218767, B001233048, B001233139

**136310**# D.E. Bracket

**Replacing:** 2005824639

**Servicing:** 0001358200, 0001358201, 0001358202

**136438**# D.E. Bracket

**Replacing:** 1005822416

**Servicing:** 0001211512, 0001211535, 9000333120, B001211306, B001211340

**136582** D.E. Bracket

**Replacing:** 1005821498, 1005821477

**Servicing:** 0001107007, 0001107008, 0001107020, 0001107021, 0001107052, 0001107053, 6004AA0019, 9000694029, B001110054, B001110099

**136706** D.E. Bracket

**Replacing:** 1005821497, 1005821159

**Servicing:** 0001112003, 0001112004, 0001112038, 0001112039, 0001113011, 0001113012, 0001114005, 0001114006, 9000695006, 9000695009

**136707**# D.E. Bracket

**Replacing:** 1005821233

**Servicing:** 0001112010, 0001112011, 0001114009, 0001114010, B001111217, B001180021, B001181014

**136714** D.E. Bracket

**Replacing:** 1005821193

**Servicing:** 0001112008, 0001112015, 0986010030, B001180011, B001180034

**136790**# D.E. Bracket

**Replacing:** 9003338898, 9002338870, 1005822451, 1005822449

**Servicing:** 0001218006, 0001218021, 0001218108, 0001218150, 0001219001, 0001219007, B001233066, B001233090, B001233106, B001233121

**136804** D.E. Bracket

**Replacing:** 1005821461

**Servicing:** 0001110061, 0001110062, B001117140

**136994** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005834315

**Servicing:** 0001362312, 0001362316, 0001367075, 0001367078, 0001369001, 0001369005, 0001369022, B001812415, B001816581, B001828011

**136995** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 9003338855, 9003335855, 9003335824

**Servicing:** 0001218007, 0001218126, 0001218176, 0001218776, 0001219014, B001233039, B001233224

**137114** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005824704

**Servicing:** 0001364100, 0001365004, B001819001, B001819002

**137136** D.E. Bracket

**Replacing:** 2005834465

**Servicing:** 0001368083, B001816570

**137155** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005821731, 1005821133

**Servicing:** 0001110017, 0001110056, 0001110999, B001117203, F010AL0101

**137156**# D.E. Bracket

**Replacing:** 1005821188

**Servicing:** 0001108047, 0001108078, 0001108079, B001111106, B001111214, B001111226

**137161** D.E. Bracket

**Replacing:** 2005824931, 2005824852

**Servicing:** 0001359108, 0001359113, 0001367005, 0001367013, B001816015, B001816035



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**137162** D.E. Bracket

**Replacing:** 9002338882

**Servicing:** 0001218016, 0001218110, 0001218710, 0001219013, B001233182

**137273** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005834053

**Servicing:** 0001363127, 0001367022, 0001368027, 0001368064, B001813256, B001816075, B001816076, B001816406

**137327**# D.E. Bracket

**Replacing:** 1005821711

**Servicing:** 0001108151

**137611**# D.E. Bracket

**Replacing:** 9003338836

**Servicing:** 0001218817, 9000331428

**137628** D.E. Bracket

**Replacing:** 1005821702

**Servicing:** 0001107034, 0001107045, B001110097, F000AL0114, F000AL0119, F000AL0122, F005M00001, F005M00024

**137629** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831159, 1005821901, 1005821768

**Servicing:** 0001123003, 0001124003, 0001124004, 0001125005, 0001125006, 0001125035, 0001125036, B001127016

**137630** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831169, 1005821787

**Servicing:** 0001124005, 0001124006, 0001125001, 0001125002, 0001125003, 0001125011, 0001125031, 0001125032

**137632** D.E. Bracket

**Replacing:** 2005824837

**Servicing:** 0001362046, 0001363112, B001812200, B001813223

**137633** D.E. Bracket

**Replacing:** 9001338021

**Servicing:** 0001218157, 0001218757

*Needle bearing: HC-CARGO 140242.*

**137635** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 9001338857

**Servicing:** 9000331201, 9000331203

**137763** D.E. Bracket

**Replacing:** 1005821147

**Servicing:** 0001108031, 0001108052, 0001108056, 0001108154, B001111091, B001111171

**137906** D.E. Bracket

**Replacing:** 1005821585

**Servicing:** 0001107016, 0001108121, B001110078, B001111359

**137911** D.E. Bracket

**Replacing:** 1005821790

**Servicing:** 0001108157, B001111498



# STARTER COMPONENTS

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## 137912 D.E. Bracket

**Replacing:** 1005831163, 1005821793

**Servicing:** 0001124007, 0001124008, 0001124011, 0001124012, 0001124022, 0001124023, 0001125003, 0001125004

*Dust proof.*

## 137915 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005831167, 1005831167, 1005821903, 1005821746

**Servicing:** 0001108031, 0001124001, 0001124002, 0001125007, 0001125008, 0001125012, 0001125013, 0001125042, 0001125043

*Dust proof.*

## 137918 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 2005834177

**Servicing:** 0001362302, 0001362319, 0001362332, 0001367002, 0001367032, 0001367058, 0001367079, 0001367080, 0001368037, 0001368039

## 138210 D.E. Bracket

**Replacing:** 2005825283

**Servicing:** 0001410101, 0001410111, 0001411029, 0001416033, 0001416036, 0001417024, 0001417079, B001411264, B001450208, B001450212

## 138324 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831432, 1005821755

**Servicing:** 0001109014, 0001109036, 0001109250, 0001110112, F002G20795

## 139261 D.E. Bracket

**Replacing:** 1005821213

**Servicing:** 0001109009, 0001110028, 0001110041, 0001110042, B001116011, B001117013, B001117075, B001117125, B001117247

## 139499 D.E. Bracket

**Replacing:** 9003338820, 9001338010

**Servicing:** 0001218120, 0001218121, 0001218133, 0001218146, 0001218147, 0001218159, 0001218759, B001233208, B001233238

## 139502 D.E. Bracket

**Replacing:** 2007010112

**Servicing:** 0001362700, B001812413

## 139548# D.E. Bracket

**Replacing:** 1005821796

**Servicing:** 0001107076, 0001107166, 0001108166, 0001108189, 0001115002

## 139554 D.E. Bracket

**Replacing:** 9001338067

**Servicing:** 0001218174, 0001218774

## 139573 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005821985

**Servicing:** 0001108180, 0001108182, 0001108186

## 139695# D.E. Bracket

**Replacing:** 1005821615

**Servicing:** 0001107033, 0001108129, 0001111003, B001111195

## 139906 D.E. Bracket

**Replacing:** 1005821932

**Servicing:** 0001107067, 0001108173



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**139913** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 2005834453
**Servicing:** 0001368081, 0001368310, B001816592

**139977** D.E. Bracket
**Replacing:** 9001338064
**Servicing:** 0001218173

**230077** D.E. Bracket
**Replacing:** 1005821946, 1005821740
**Servicing:** 0001107037, 0001107048, 0001107072

**230113** D.E. Bracket
**Replacing:** 2005824974
**Servicing:** 0001363101, 0001363111, B001813222

**230811** D.E. Bracket
**Replacing:** 2005825352
**Servicing:** 0001416061, 0001416065, B001450273

**230836**# D.E. Bracket
**Replacing:** 1005821473
**Servicing:** 0001109001, 0001109002, 0001109006, 0001109007, B001116001

**230838** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821839
**Servicing:** 0001108167

**230844** D.E. Bracket
**Replacing:** 2005834012, 2005824389
**Servicing:** 0001359020, 0001367017, 0001368040, B001816125, B001816126

**231023** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 9001338029
**Servicing:** 0001218168, 0001218768, 0001219012, 0001219112

**231071**# D.E. Bracket
**Replacing:** 2005834399
**Servicing:** 0001362102, B001812430

**231082** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 9001338073
**Servicing:** 0001231003

**231087** D.E. Bracket
**Replacing:** 2005834825
**Servicing:** 0001372001, 0AA137200B, 0AA137200F, B001960018

**231169** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821860
**Servicing:** 0001109030, 0001109045, 0001109048, 0001109253, 0001109268, 0001109269, 0001109270, 0001109336, 0001109337

**231274**# D.E. Bracket
**Replacing:** 2005834512, 2005824509
**Servicing:** 0001358047, 0001371008, 0001371009

**231593** D.E. Bracket
**Replacing:** 9001338056, 6033AD3172, 6033AD0231, 6033AD0174
**Servicing:** 0001230001, 0001231002, 0001231032, B001260015



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**231656**[#] D.E. Bracket
**Replacing:** 1005821630
**Servicing:** 0001108133, 0001108138, B001111439

**231657**[#] D.E. Bracket
**Replacing:** 1005821913
**Servicing:** 0001109033

**231696** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 2005825071, 2005825070
**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410022, 0001410034, 0001410041, 0001410045, 0001410055

**231728** D.E. Bracket
**Replacing:** 2005834068
**Servicing:** 0001368019, B001816052

**231750**[#] D.E. Bracket
**Replacing:** 2005825359
**Servicing:** 0001417053, 0001417061, B001411359

**231752** D.E. Bracket
**Replacing:** 2005825326
**Servicing:** 0001410115, 0001417045, 0001417047, B001411325

**231791** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821632
**Servicing:** 0001107025, 0001107026, 0001107103, 0001107104, B001110114

**231847** D.E. Bracket
**Replacing:** 2005822023
**Servicing:** 0001211221, 0001211222, 0001211992, 0001211993, 9000692062, B001211098

**231848** D.E. Bracket
**Replacing:** 1005821832
**Servicing:** 0001109025, 0001109200, 0001109201

**232184** D.E. Bracket
**Replacing:** 1005821976
**Servicing:** 0001107077, 0001107098

**233215** D.E. Bracket
**Replacing:** 6033AD0450, 6033AD0144
**Servicing:** 0001230009, 0001231011

**233858** D.E. Bracket
**Replacing:** 2005834511, 2005834507
**Servicing:** 0001371006, 0001371007

**233943** D.E. Bracket
**Replacing:** 1005831129, 1005831015
**Servicing:** 0001106012, 0001106017, 0001106022, B001109104

**233974** D.E. Bracket
**Replacing:** 1005831173, 1005821892
**Servicing:** 0001125503, 0001125504, 0001125513, 0001125514

**233984** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821982
**Servicing:** 0001109035



O.E.M. names and numbers are used for reference purposes only.

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[#]Available while stock last, * Program development.

**234051**[#] D.E. Bracket
**Replacing:** 1005821890
**Servicing:** 0001116001

**234080** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005831220
**Servicing:** 0001108196, 0001108245

**234082**[#] D.E. Bracket
**Replacing:** 1005821622
**Servicing:** 0001108130, B001111399

**234083** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821898
**Servicing:** 0001121008, 0001121009, 0001121026, 0001121027

**234084** D.E. Bracket
**Replacing:** 1005821960
**Servicing:** 0001109034

**234138** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005831108
**Servicing:** 0001121016, 0001121017, B001120046

**234140**[#] D.E. Bracket
**Replacing:** 1005831135
**Servicing:** 0001124020, 0001124021

**234154** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005831171, 1005821866
**Servicing:** 0001125501, 0001125502, 0001125511, 0001125512, B001126081

**234157** D.E. Bracket
**Replacing:** 1005821955
**Servicing:** 0001109021, 0001109022, 0001109066, 0001109067, B001116092

**234237** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 1005821988
**Servicing:** 0001108217, 0001108218, 0001115008, F000AL0101, F000AL0127

**234246** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 6033AD1097, 6033AD0219
**Servicing:** 0001223005

**234248** 5★ D.E. Bracket
**Manufacturer:** Bosch
**Replacing:** 2005834837
**Servicing:** 0001372006, 0AA137200G

**234367**[#] D.E. Bracket
**Replacing:** 1005831181, 1005821811
**Servicing:** 0001121001, 0001121002, 0001121030, 0001121031, 0001121034, 0001121035

**234369** D.E. Bracket
**Replacing:** 1005831175, 1005831116
**Servicing:** 0001125507, 0001125508, 0001125517, 0001125518

**234370** D.E. Bracket
**Replacing:** 6033AD0139
**Servicing:** 0001231007, 0001231030



All measurements are in mm, unless else stated.
[#]Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

**234373**[#] D.E. Bracket

**Replacing:** 2005834705

**Servicing:** 0001369023, 0001369201

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**234374** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 6033AD0280, 6033AD0076

**Servicing:** 0001223003, 0001223007, 0001223024

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**234376** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 6033AD0448, 6033AD0082

**Servicing:** 0001230006, 0001230014, 0001231005

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**234393** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 6033AD0307

**Servicing:** 0001223013

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**234397** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831126

**Servicing:** 0001107091, 0001107097, 0001107109, 0001107110, 0001107111

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**234519** D.E. Bracket

**Replacing:** 2005825393, 2005825278, 2005825183

**Servicing:** 0001410065, 0001411017, 0001411025, 0001411026, 0001417005, 0001417006, 0001417059, 0001417073, 0001417074, 0001714059

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**234789** D.E. Bracket

**Replacing:** 2005834846, 2005834828

**Servicing:** 0001372002, 0001372004, 0001372007, B001860023

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**234790**[#] D.E. Bracket

**Replacing:** 6033AD0000

**Servicing:** 0001231004

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**234847** D.E. Bracket

**Replacing:** 1005831425, 1005831340, 1005831040

**Servicing:** 0001125018, 0001125019, 0001125048, 0001125049, 0001125605, 0001125606

*Needle Bearing: HC-CARGO 141084. Oil Seal: HC-CARGO 231343.*

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**234848** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831037

**Servicing:** 0001125016, 0001125017, 0001125046, 0001125047

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**234900** D.E. Bracket

**Replacing:** 6033AD0336

**Servicing:** 0001223014

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**235036** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 1005831157, 1005821881

**Servicing:** 0001121006, 0001121007, 0001121028, 0001121029, F004A94029

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**235305** D.E. Bracket

**Replacing:** 1005821713

**Servicing:** 0001108153

*Bearing: HC-CARGO 140807.*

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**235586** 5★ D.E. Bracket

**Manufacturer:** Bosch

**Replacing:** 6033AD0451, 6033AD0080

**Servicing:** 0001230004, 0001231009

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[#]Available while stock last, * Program development.

**235755** D.E. Bracket

**Replacing:** 6033AD04380, 6033AD0438

**Servicing:** 0001231016

*Bushing: HC-CARGO 140010.*

**236146** D.E. Bracket

**Replacing:** 2005822015

**Servicing:** 0001211997, 0001211998, 9000042021, 9000042027, 9000082009

**236509**# D.E. Bracket

**Replacing:** 1005831304

**Servicing:** 0001123002, 0001123003, 0001123202

**238845** D.E. Bracket

**Replacing:** 6033AD4149, 6033AD4118

**Servicing:** 0001230027, 0001231033, 0001231133

## I.M. Brackets

**137386**# I.M. Bracket

**Replacing:** 2005823099

**Servicing:** 0001311042, 0001311044, 0001311047, 0001313003, 0001313004, 0001313005, 0001313006, 0001313007, 0001314001, 0001314002

**137610** 5★ I.M. Bracket

**Replacing:** 9001338863

**Servicing:** 9000331201

*Bosch.*

**137983** 5★ I.M. Bracket

**Replacing:** 9001338033

**Servicing:** 9000331201, 9000331203

*Bosch.*

**139911** I.M. Bracket

**Replacing:** 2005824881, 2005824649, 2005824465

**Servicing:** 0001358048, 0001358049, 0001358050, 0001358051, 0001359001, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010

**ID** 18.50

**139912**# I.M. Bracket

**Replacing:** 2005834427

**Servicing:** 0001364300, 0001364301, 0001364400, 0001364402, B001841010, B001841012

**230457** 5★ I.M. Bracket

**Replacing:** 2005834281

**Servicing:** 0001362321, 0001362331, 0001363128, 0001363130, 0001367036, 0001367038, 0001367046, 0001367051, 0001367054, 0001367057

*Bosch.*

**231089** 5★ I.M. Bracket

**Replacing:** 2005834593

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0AA137200B, 0AA137200F

*Bosch.*

**231276** 5★ I.M. Bracket

**Replacing:** 2005834596

**Servicing:** 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371012, 0001371014, 0001371017, 0001371018

**ID** 32.00

*Bosch.*



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 235622 5★ I.M. Bracket

**Replacing:** 2005824522

**Servicing:** 0001364100, 0001364101, 0001364102, 0001364104, 0001364105, 0001364106, 0001364200, 0001364201, 0001364202, 0001364203

**ID** 19.00

*Bosch.*

# Solenoids

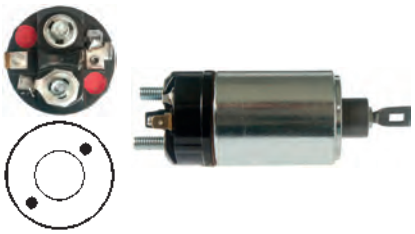
## 12 V

## 130281 Solenoid

**Replacing:** 0331101003, 0331101001, 0331100014, 0331100005

**Servicing:** 0001400016, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401041, 0001401044

12 **V**, **B+** Cable, **OD** 85.90, **Total length** 93.80



## 130293 Solenoid

**Replacing:** 0331302033

**Servicing:** 0001208019, 0001208020, 0001208027, 0001208028, 0001208030, 0001208031, 0001208040, 0001208041, 0001211018, 0001211019

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** M5-6.30, **ID/cover** 20.75, **OD** 50.30, **OD/cover** 50.25, **Total length** 144.60, **Height/B+** 12.00, **Width/kl. 15a** 15.00, **Width/kl. 50** 45.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 4

*Cap: HC-CARGO 131334.*

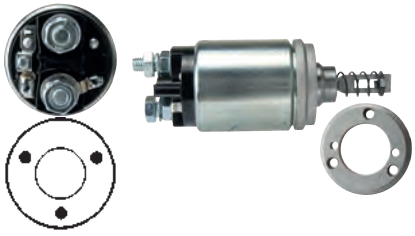
## 130296 Solenoid

**Replacing:** 0331402076, 0331401507, 0331401007, 0331400022, 0331400017, 0331400016, 0331400014

**Servicing:** 0001358017, 0001358018, 0001358020, 0001358026, 0001358028, 0001358032, 0001358033, 0001358035, 0001358038, 0001358040

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.35, **Total length** 200.35, **Height/B+** 23.60, **Width/kl. 30h** 16.60, **Width/kl. 50** 2.80, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131317.*



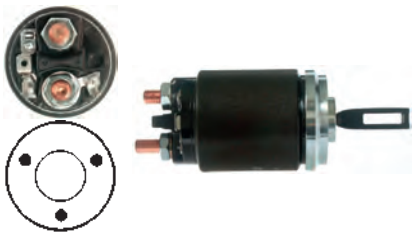
## 130297 Solenoid

**Replacing:** 0331402074, 0331402073, 0331401504, 0331401503, 0331401051, 0331401046, 0331401029, 0331401012

**Servicing:** 0001356003, 0001359001, 0001359002, 0001359003, 0001359004, 0001359006, 0001359008, 0001359010, 0001359012, 0001359013

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.85, **OD** 61.00, **OD/cover** 53.30, **Total length** 177.75, **Height/B+** 23.40, **Width/kl. 30h** 20.75, **Width/kl. 50** 7.60, **Coil bolt** M10, **Coil bolt 2** 16.55, **No./terminals** 3

*Cap: HC-CARGO 131318.*



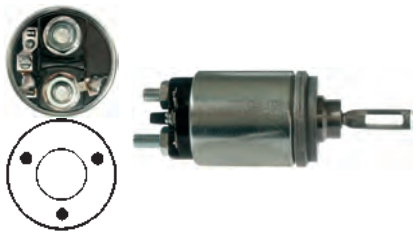
## 130299 Solenoid

**Replacing:** 0331402078, 0331401510, 0331401506, 0331401039, 0331401024, 0331401017, 0331401014, 0331401010

**Servicing:** 0001354064, 0001354077, 0001354079, 0001354086, 0001354101, 0001362003

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4, **ID/cover** 29.90, **OD** 61.60, **OD/cover** 53.40, **Total length** 158.00, **Height/B+** 23.60, **Width/kl. 30h** 16.30, **Width/kl. 50** 2.30, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131318.*



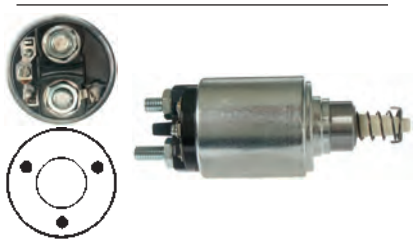
## 130300 Solenoid

**Replacing:** 0331402509, 0331402077, 0331401508, 0331401027, 0331401015, 0331400011, 0331400009, 0331400007

**Servicing:** 0001354016, 0001354018, 0001354029, 0001354080, 0001354082, 0001354085, 0001354091

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.60, **Height/B+** 24.70, **Width/kl. 30h** 15.75, **Width/kl. 50** 3.80, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131318.*



## 130301 Solenoid

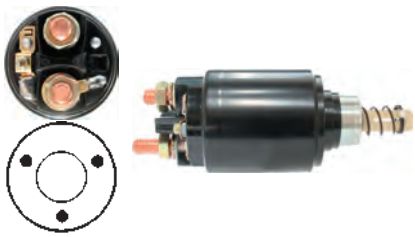
**Replacing:** 0331402704, 0331402539, 0331402535, 0331402530, 0331402519, 0331402504, 0331402501, 0331402205

**Servicing:** 0001223501, 0001358048, 0001358050, 0001358051, 0001359008, 0001359014, 0001359020, 0001359027, 0001359030, 0001359032

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.80, **OD** 61.30, **OD/cover** 53.35, **Total length** 164.00, **Height/B+** 24.00, **Width/kl. 30h** 16.45, **Width/kl. 50** 3.30, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131318.*

**Alternative no.:** 333168 5★, 130301Z



## 130301Z Solenoid

**Replacing:** 0331402704, 0331402539, 0331402535, 0331402530, 0331402519, 0331402504, 0331402501, 0331402205

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.80, **OD** 61.30, **OD/cover** 53.35, **Total length** 164.00, **Height/B+** 24.00, **Width/kl. 30h** 16.45, **Width/kl. 50** 3.30, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

**Alternative no.:** 130301, 333168 5★



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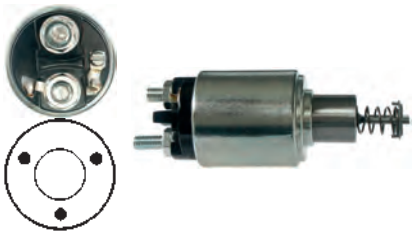
#Available while stock last, * Program development.



## 130302 Solenoid

**Replacing:** 933A081030, 9330081030, 2339402121, 0331402503, 0331402502, 0331402202, 0331402003, 0331402002

**Servicing:** 0001358049, 0001358200, 0001358201, 0001358202, 0001359025, 0001359041, 0001359049, 0001359053, 0001359068, 0001359072

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.60, **OD** 61.00, **OD/cover** 53.45, **Total length** 164.30, **Height/B+** 23.00, **Width/kl. 30h** 16.00, **Width/kl. 50** 2.95, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 131317.*

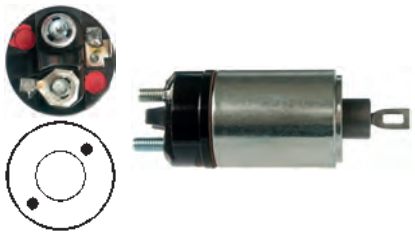
**Alternative no.:** 333137 5★, 130302Z

## 130302Z Solenoid

**Replacing:** 2339402121, 0331402503, 0331402502, 0331402202, 0331402003, 0331402002, 0331401045, 0331401038

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.60, **OD** 61.00, **OD/cover** 53.45, **Total length** 164.30, **Height/B+** 23.00, **Width/kl. 30h** 16.00, **Width/kl. 50** 2.95, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

**Alternative no.:** 333137 5★, 130302

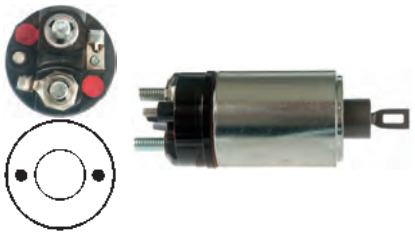


## 130468 Solenoid

**Replacing:** 9330041005, 0331302540, 0331302093, 0331302089, 0331302070, 0331302067, 0331302066, 0331302064

**Servicing:** 0001157021, 0001208044, 0001208051, 0001208052, 0001208053, 0001208054, 0001208207, 0001208210, 0001208214, 0001208233

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.20, **OD/cover** 49.85, **Total length** 142.40, **Height/B+** 16.90, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 12.90, **No./terminals** 3
*Cap: HC-CARGO 131335.*

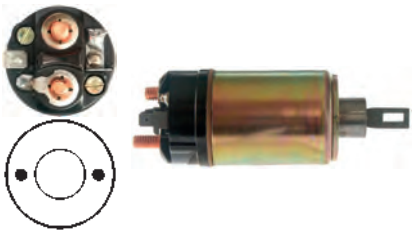


## 130470 Solenoid

**Replacing:** 0331302091, 0331302083, 0331302063, 0331302054

**Servicing:** 0001208049, 0001208055, 0001208206, 0001208249, 0001208255, 0001211229, 0001211989, 0001211995, 0001211996, 0001311046

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **OD** 50.10, **OD/cover** 49.45, **Total length** 142.00, **Height/B+** 17.95, **Width/kl. 15a** 8.35, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 13.70, **No./terminals** 4
*Cap: HC-CARGO 131334.*

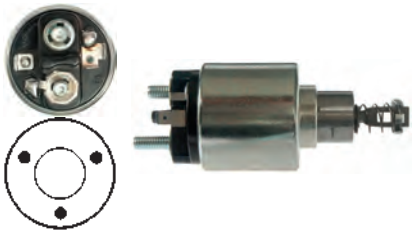


## 130471 Solenoid

**Replacing:** 0331302570, 0331302082, 0331302075, 0331302047, 0331302042

**Servicing:** 0001208053, 0001208054, 0001311025, 0001311027, 0001311045, 0001314006, B001311054

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 49.00, **OD/cover** 50.70, **Total length** 143.75, **Height/B+** 14.40, **Width/kl. 15a** 14.00, **Width/kl. 50** 12.30, **Coil bolt** M8, **Coil bolt 2** 7.75, **No./terminals** 4
*Cap: HC-CARGO 130479.*

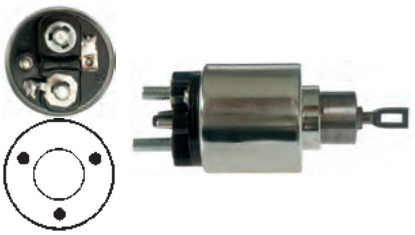


## 130474 Solenoid

**Replacing:** 0331303573, 0331303509, 0331303073, 0331303047, 0331303023, 0331303018, 0331303009, 0331303004

**Servicing:** 0001208400, 0001212202, 0001212204, 0001212205, 0001212206, 0001212207, 0001212211, 0001212212, 0001212400, 0001212401

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.30, **Total length** 144.20, **Height/B+** 20.35, **Width/kl. 15a** 14.65, **Width/kl. 50** 11.30, **Coil bolt** M8, **Coil bolt 2** 12.20, **No./terminals** 4
*Cap: HC-CARGO 131337.*

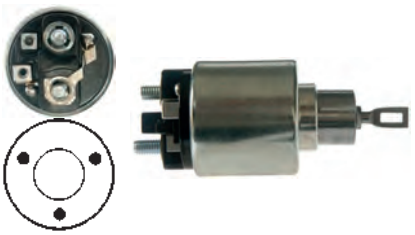


## 130475 Solenoid

**Replacing:** 2339303283, 0331303031, 0331303028, 0331303016, 0331303005

**Servicing:** 0001108004, 0001108019, 0001108020, 0001108033, 0001108039, 0001108100, 0001108158, 0001112037, 0001208172, 0001208219

12 **V**, **B+** M8, **Kl. 15a** M4, **Kl. 50** 6.30, **ID/cover** 26.85, **OD** 56.30, **OD/cover** 49.55, **Total length** 140.35, **Height/B+** 20.60, **Width/kl. 15a** 8.30, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 12.70, **No./terminals** 4
*Cap: HC-CARGO 131847.*

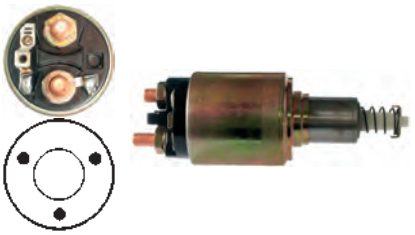


## 130476 Solenoid

**Replacing:** 9330081039, 2339303270, 0331303530, 0331303503, 0331303040, 0331303038, 0331303030, 0331303019

**Servicing:** 0001108021, 0001208200, 0001208201, 0001208208, 0001208211, 0001208213, 0001208216, 0001208217, 0001208221, 0001208222

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M4, **ID/cover** 27.00, **OD** 56.40, **OD/cover** 49.45, **Total length** 136.00, **Height/B+** 15.00, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 4
*Cap: HC-CARGO 131338.*



## 130806 Solenoid

**Replacing:** 0331402016, 0331401035, 0331401026, 0331401013, 0331401011

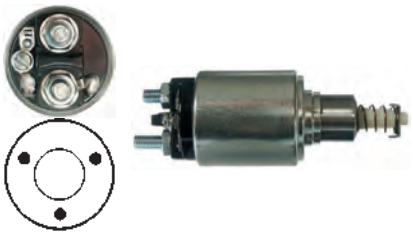
**Servicing:** 0001362001, 0001362002, 0001362004, 0001362005, 0001362006, 0001362007, 0001362008, 0001362010, 0001362011, 0001362018

12 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 30.45, **OD** 61.20, **OD/cover** 53.50, **Total length** 162.65, **Height/B+** 21.85, **Width/kl. 50** 3.65, **Coil bolt** M10, **Coil bolt 2** 15.15, **No./terminals** 3
*Cap: HC-CARGO 131318.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



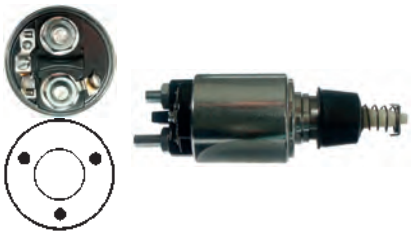
## 131042 Solenoid

**Replacing:** 0331402513, 0331402200, 0331402013

**Servicing:** 0001359043, 0001359084, 0001359111, 0001367010, 0001367034, 0001367039, 0001367059, 0001367300, 0001367301, 0001367303

12 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.35, **Total length** 172.20, **Height/B+** 23.35, **Coil bolt** M10, **Coil bolt 2** 16.65, **No./terminals** 3
*Cap: HC-CARGO 133447.*

**Alternative no.:** 333587 5★



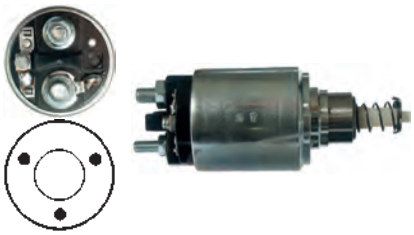
## 131141 Solenoid

**Replacing:** 9330451063, 9330081028, 2339402141, 0331402570, 0331402568, 0331402209, 0331402070, 0331402068

**Servicing:** 0001359051, 0001359089, 0001359097, 0001359098, 0001362039, 0001362317, 0001362318, 0001362321, 0001362322, 0001362323

12 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 30.00, **OD** 61.50, **OD/cover** 53.25, **Total length** 181.75, **Height/B+** 21.00, **Width/kl. 50** M4, **No./terminals** 3
*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*

**Alternative no.:** 333144 5★



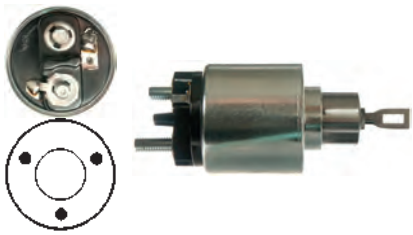
## 131142 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402529, 0331402029, 0331402023

**Servicing:** 0001359082, 0001359104, 0001359109, 0001359110, 0001359126, 0001359127, 0001362060, 0001362067, 0001362082, 0001367006

12 **V**, **B+** M8, **ID/cover** 30.15, **OD** 61.15, **OD/cover** 53.55, **Total length** 160.20, **Height/B+** 18.50, **Coil bolt** M10, **Coil bolt 2** 16.85, **No./terminals** 3
*Cap: HC-CARGO 131319.*



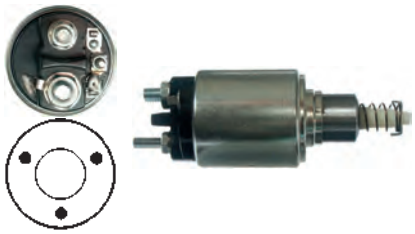
## 131143 Solenoid

**Replacing:** 9330081065, 2339303296, 2339303284, 0331303653, 0331303506, 0331303156, 0331303153, 0331303058

**Servicing:** 0001107005, 0001107006, 0001107009, 0001107012, 0001107013, 0001107024, 0001107033, 0001107060, 0001107085, 0001108011

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.35, **Total length** 140.80, **Height/B+** 20.00, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 12.60, **No./terminals** 3
*Cap: HC-CARGO 131315.*

**Alternative no.:** 333147 5★, 333665

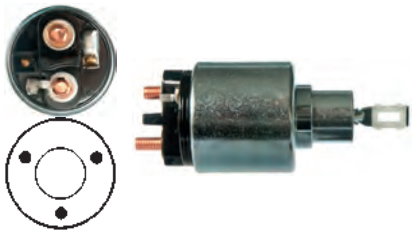


## 131189 Solenoid

**Replacing:** 0331402528, 0331402096, 0331402028, 0331402027

**Servicing:** 0001362005, 0001362006, 0001362044, 0001362045, 0001362061, 0001362079, 0001362081, 0001362602, 0001362603, 0001362606

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 29.85, **OD** 61.00, **OD/cover** 53.10, **Total length** 171.75, **Height/B+** 19.00, **Width/kl. 50** 13.70, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 133159.*

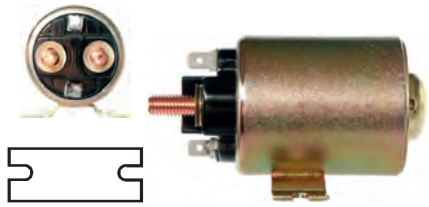


## 131308 Solenoid

**Replacing:** 0331303043

**Servicing:** 0001208224, 0001208225, B001208189, B001208201

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.60, **OD/cover** 49.60, **Total length** 121.45, **Height/B+** 14.10, **Width/kl. 50** 12.10, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 3
*Cap: HC-CARGO 131315.*



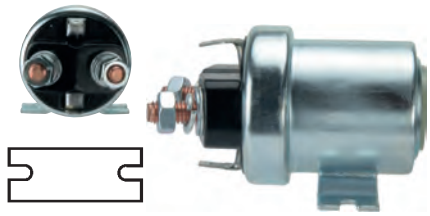
## 131370 Solenoid

**Replacing:** 0333006004

**Servicing:** 0001108078, 0001108079, 0333006004

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4
*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 333160 5★

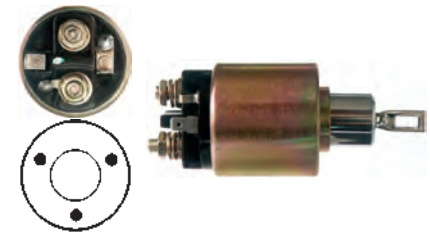


## 131373Z Solenoid

**Replacing:** 0333009004

12 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 54.17, **OD/cover** 43.36, **Total length** 92.00, **Height/B+** 17.34, **Coil bolt** M8, **Coil bolt 2** 17.34, **Seconds** 5, **No./terminals** 4
*Silver contact.*

**Alternative no.:** 333153 5★, 131373



## 131586 Solenoid

**Replacing:** F000SH0180, 9330081049, 9330043502, 9330043002, 2339303435, 2339303408, 2339303363, 2339303321

**Servicing:** 0001106001, 0001106002, 0001106004, 0001107003, 0001107004, 0001107007, 0001107008, 0001108001, 0001108002, 0001108005

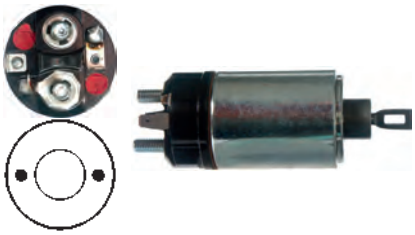
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.35, **OD/cover** 49.70, **Total length** 138.00, **Height/B+** 18.60, **Width/kl. 50** 13.85, **Coil bolt** M8, **Coil bolt 2** 14.30, **No./terminals** 4
*Cap: HC-CARGO 131337.*

**Alternative no.:** 333146 5★



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



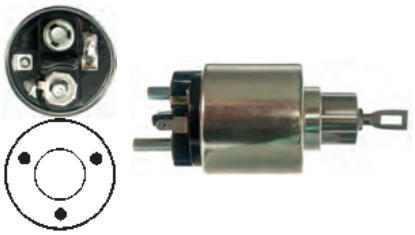
## 131790 Solenoid

**Replacing:** 0331302094, 0331302062

**Servicing:** 0001208100, 0001208101, 0001208202, 0001208229, 0001208405, 0001211200, 0001211201, 0001211215, 0001211241, 0001311103

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 50.15, **OD/cover** 49.90, **Total length** 143.00, **Height/B+** 16.75, **Width/kl. 15a** 15.00, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 13.45, **No./terminals** 4

*Cap: HC-CARGO 130479.*



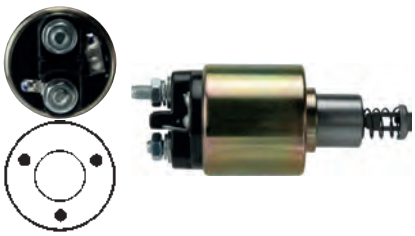
## 131791 Solenoid

**Replacing:** 9330141044, 2339304249, 2339303451, 2339303250, 2339303249, 2339303241, 2339303240, 0331303250

**Servicing:** 0001108012, 0001108025, 0001108030, 0001108038, 0001108061, 0001108062, 0001108088, 0001108089, 0001108090, 0001108091

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 49.35, **Total length** 141.90, **Height/B+** 20.10, **Width/kl. 15a** 11.75, **Width/kl. 50** 12.75, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 4

*Cap: HC-CARGO 132279.*



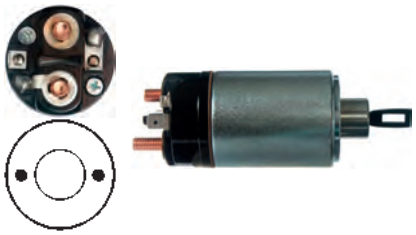
## 131793 Solenoid

**Replacing:** 2339303269, 0331303626, 0331303602, 0331303126, 0331303110, 0331303102, 0331303100, 0331303068

**Servicing:** 0001107015, 0001107044, 0001107066, 0001108011, 0001108018, 0001108024, 0001108031, 0001108042, 0001108050, 0001108054

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.25, **OD** 56.55, **OD/cover** 49.65, **Total length** 119.50, **Height/B+** 14.15, **Width/kl. 50** 12.35, **Coil bolt** M8, **Coil bolt 2** 9.65, **No./terminals** 3

*Cap: HC-CARGO 131315.*



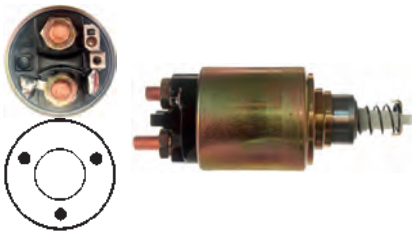
## 131794 Solenoid

**Replacing:** 9330141018, 9330141014, 0331302092, 0331302077, 0331302059

**Servicing:** 0001157009, 0001157010, 0001157012, 0001157013, 0001157015, 0001157016, 0001157017, 0001157021, 0001157023, 0001157027

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 49.85, **OD/cover** 50.00, **Total length** 143.15, **Height/B+** 15.50, **Width/kl. 15a** 11.85, **Width/kl. 50** 10.80, **Coil bolt** M8, **Coil bolt 2** 9.70, **No./terminals** 4

*Cap: HC-CARGO 130479.*



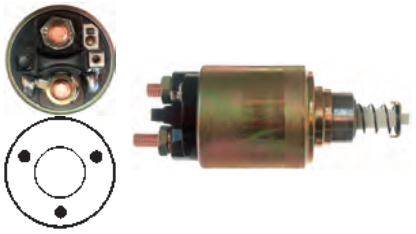
## 132252 Solenoid

**Replacing:** 0331402032, 0331402017, 0331401032

**Servicing:** 0001362009, 0001362012, 0001364106, 9000143002, B001819072

12 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 30.15, **OD** 61.15, **OD/cover** 53.45, **Total length** 162.25, **Height/B+** 21.95, **Width/kl. 50** 3.60, **Coil bolt** M10, **Coil bolt 2** 15.65, **No./terminals** 3

*Cap: HC-CARGO 131317.*



## 132253 Solenoid

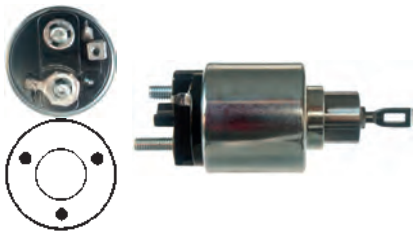
**Replacing:** 0331402524, 0331402024

**Servicing:** 0001358202, 0001359094, 0001362307, 0001367071, B001812330, B001816275

12 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 30.10, **OD** 61.15, **OD/cover** 53.40, **Total length** 162.00, **Height/B+** 22.20, **Width/kl. 50** 3.75, **Coil bolt** M10, **Coil bolt 2** 15.50, **No./terminals** 3

*Cap: HC-CARGO 131317.*

**Alternative no.:** 333586 5★



## 132258 Solenoid

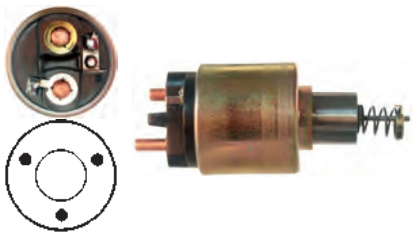
**Replacing:** 2339303447, 2339303263, 2339303262, 2339303260, 2339303102, 0331303654, 0331303154, 0331303061

**Servicing:** 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104, 0001108124, 0001108134

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.90, **OD** 56.55, **OD/cover** 49.50, **Total length** 140.15, **Height/B+** 19.80, **Width/kl. 50** 8.60, **Coil bolt** M8, **Coil bolt 2** 12.30, **No./terminals** 3

*Cap: HC-CARGO 132780.*

**Alternative no.:** 333142 5★



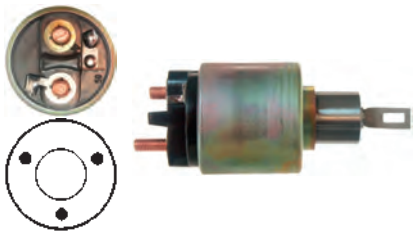
## 132261 Solenoid

**Replacing:** 0331303034

**Servicing:** 0001312108, 0001312109, 0001317005, 0001317006, 0001317007, 0001317008, 0001317011, 0001317012, 0001317014, 0001317015

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.70, **OD/cover** 49.50, **Total length** 139.55, **Height/B+** 16.60, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3

*Cap: HC-CARGO 133202.*



## 132263 Solenoid

**Replacing:** 0331303567, 0331303069, 0331303067, 0331303042

**Servicing:** 0001108024, 0001108031, 0001108050, 0001108153, 0001110063, 0001125502, 0001125512, 0001157028, 0001208710, 0001211248

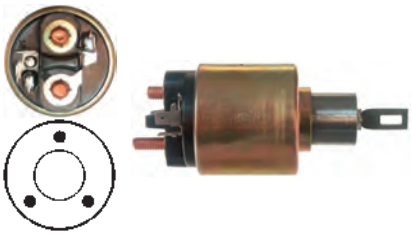
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.90, **OD** 56.65, **OD/cover** 49.55, **Total length** 139.00, **Height/B+** 17.00, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 9.15, **No./terminals** 3

*Cap: HC-CARGO 131315.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



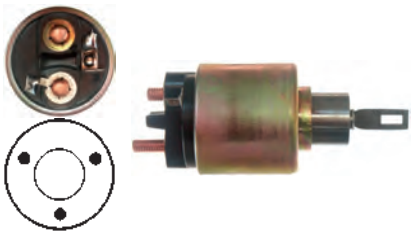
## 132264 Solenoid

**Replacing:** 0331303081, 0331303079

**Servicing:** 0001108023, 0001108075, 0001110079, 0001125502, 0001125512, B001111266, B001117275, B001126081

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.15, **OD** 56.70, **OD/cover** 49.60, **Total length** 139.00, **Height/B+** 16.30, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 8.75, **No./terminals** 3

*Cap: HC-CARGO 132282.*



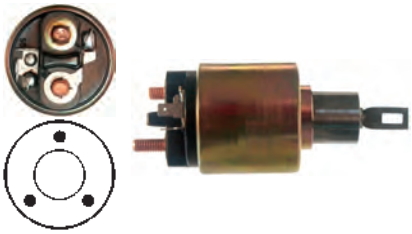
## 132265 Solenoid

**Replacing:** 9330081062, 0331303066

**Servicing:** 0001109003, 0001110017, 0001110999, 0001125507, 0001125508, 0001125517, 0001125518, 0001208507, 0001208516, 0001208518

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.75, **OD/cover** 49.65, **Total length** 139.75, **Height/B+** 16.80, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 8.95, **No./terminals** 3

*Cap: HC-CARGO 131315.*



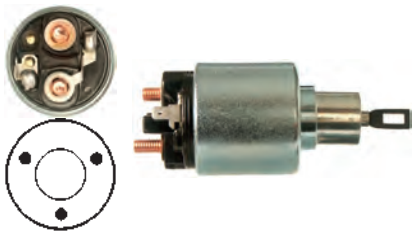
## 132266 Solenoid

**Replacing:** 0331303582, 0331303082

**Servicing:** 0001125507, 0001125508, 0001125517, 0001125518, 0001218004, 0001218005, 0001218017, 0001218111, 0001218112, 0001218130

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.15, **OD** 56.75, **OD/cover** 49.60, **Total length** 140.45, **Height/B+** 16.90, **Width/kl. 50** 13.20, **Coil bolt** M8, **Coil bolt 2** 8.40, **No./terminals** 3

*Cap: HC-CARGO 132282.*



## 132267 Solenoid

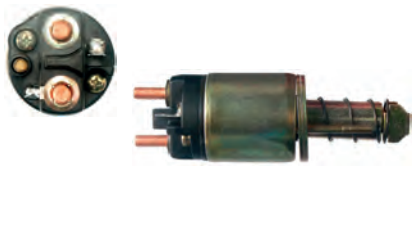
**Replacing:** 0331303597, 0331303560, 0331303122, 0331303097, 0331303091, 0331303090, 0331303083, 0331303060

**Servicing:** 0001108023, 0001108075, 0001208209, 0001208211, 0001208213, 0001208227, 0001218003, 0001218004, 0001218005, 0001218012

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.20, **OD** 56.40, **OD/cover** 49.60, **Total length** 118.40, **Height/B+** 14.15, **Width/kl. 50** 13.40, **Coil bolt** M8, **Coil bolt 2** 9.60, **No./terminals** 3

*Cap: HC-CARGO 132282.*

**Alternative no.:** 333568 5★

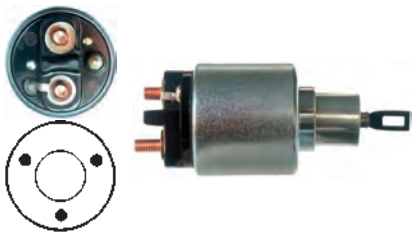


## 132272 Solenoid

**Replacing:** 9339331001

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 23.15, **OD** 52.40, **OD/cover** 49.85, **Total length** 138.40, **Height/B+** 18.95, **Width/kl. 15a** 7.40, **Width/kl. 50** 15.65, **Coil bolt** M8, **Coil bolt 2** 19.85, **No./terminals** 4

*Cap: HC-CARGO 132723.*



## 132299 Solenoid

**Replacing:** 0331303086

**Servicing:** 0001108033, 0001108035, 0001108037, 0001108040, 0001108057, 0001108071, 0001108082, 0001108083, 0001108084, 0001110019

12 **V**, **B+** M8, **Kl. 15a** M6, **Kl. 30h** M8, **ID/cover** 27.10, **OD** 56.55, **OD/cover** 49.10, **Total length** 118.50, **Height/B+** 14.50, **Width/kl. 15a** 14.60, **Width/kl. 30h** 9.55, **No./terminals** 3

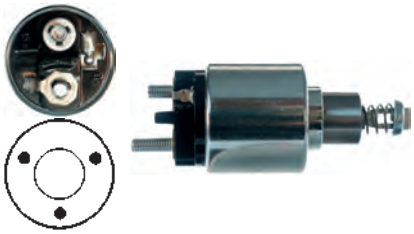
*Cap: HC-CARGO 132300.*

## 132803 Solenoid

**Replacing:** 0331101011

**Servicing:** 0001413001, 0001413003, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011, 0001413012, 0001413013

12 **V**



## 132827 Solenoid

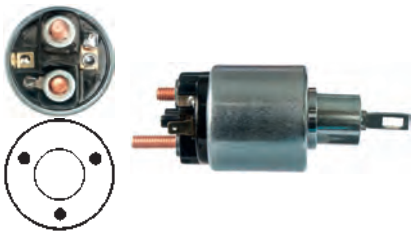
**Replacing:** 2339303296, 0331303570, 0331303070, 0331303064, 0331303045, 0331303043

**Servicing:** 0001107005, 0001107006, 0001108043, 0001108044, 0001108059, 0001108060, 0001108096, 0001108097, 0001108118, 0001108119

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.75, **OD** 56.25, **OD/cover** 49.30, **Total length** 139.75, **Height/B+** 20.45, **Width/kl. 50** 11.25, **Coil bolt** M8, **Coil bolt 2** 12.25, **No./terminals** 3

*Cap: HC-CARGO 133202.*

**Alternative no.:** 333166 5★



## 132828 Solenoid

**Replacing:** 9330081050, 2339303403, 2339303329, 2339303232, 0331303094

**Servicing:** 0001108072, 0001108073, 0001108101, 0001108102, 0001110029, 0001110030, 0001110100, 0001110101, 0001110130, 0001110131

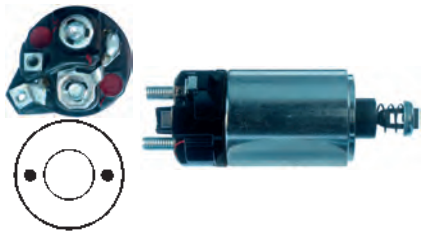
12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 27.25, **OD** 56.45, **OD/cover** 49.20, **Total length** 130.00, **Height/B+** 23.60, **Width/kl. 15a** 13.25, **Width/kl. 50** 12.40, **Coil bolt** M8, **Coil bolt 2** 7.65, **No./terminals** 4

*Cap: HC-CARGO 131337.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



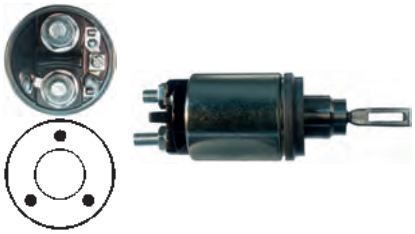
## 133141 Solenoid

**Replacing:** 0331302571, 0331302518, 0331302076, 0331302071, 0331302036, 0331302018, 0331302010

**Servicing:** 0001208011, 0001208019, 0001208027, 0001208032, 0001211006, 0001211010, 0001211020, 0001211204, 0001211205, 0001211209

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 4.70, **OD** 50.10, **OD/cover** 49.75, **Total length** 142.30, **Height/B+** 18.45, **Width/kl. 15a** 4.75, **Width/kl. 50** 6.25, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 4

*Cap: HC-CARGO 132778.*



## 133398 Solenoid

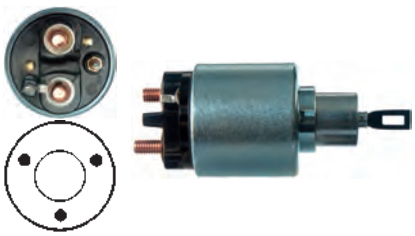
**Replacing:** 0331401008

**Servicing:** 0001354004, 0001354005, 0001354007, 0001354010, 0001354021, 0001354041, 0001354080, 0001354081, 0001354085, 0001354087

12 **V**, **B+** M10, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.40, **Total length** 175.30, **Height/B+** 22.85, **Width/kl. 50** 2.80, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131317.*

**Alternative no.:** 335197



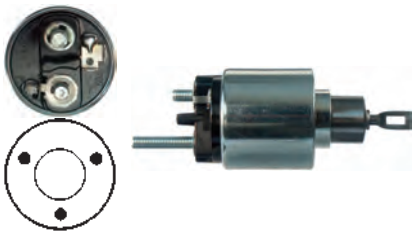
## 133419 Solenoid

**Replacing:** 0331303089

**Servicing:** 0001218022, 0001218104, 0001218105, 0001218106, 0001218128, B001233107, B001233159, B001233160, B001233163, B001233192

12 **V**, **B+** M8, **Kl. 15a** M6, **ID/cover** 27.00, **OD** 56.40, **OD/cover** 49.10, **Total length** 118.00, **Height/B+** 14.00, **Width/kl. 15a** 12.55, **Coil bolt** M8, **Coil bolt 2** 9.60, **No./terminals** 3

*Cap: HC-CARGO 132300.*



## 133421 Solenoid

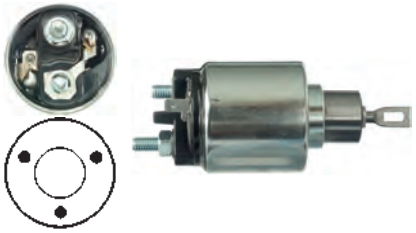
**Replacing:** 0331303555, 0331303132, 0331303076, 0331303056, 0331303055

**Servicing:** 0001110009, 0001110010, 0001208425, 0001208426, 0001208428, 0001208429, 0001211251, 0001211252, 0001211253, 0001211254

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.95, **OD** 56.30, **OD/cover** 49.45, **Total length** 155.75, **Height/B+** 35.00, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 12.75, **No./terminals** 3

*Cap: HC-CARGO 133148.*

**Alternative no.:** 333545 5★



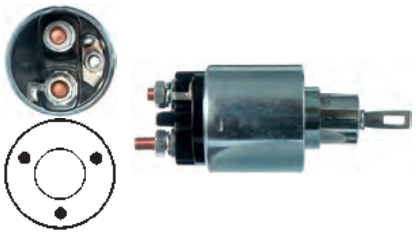
## 133422 Solenoid

**Replacing:** 9330331513, 9330331013, 0331303609, 0331303109

**Servicing:** 0001208506, 0001211536, 0001218174, 0001218774, 9000692085

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.15, **OD** 56.30, **OD/cover** 49.50, **Total length** 137.00, **Height/B+** 14.85, **Width/kl. 50** 11.20, **Coil bolt** M8, **Coil bolt 2** 8.90, **No./terminals** 3

*Cap: HC-CARGO 132779.*



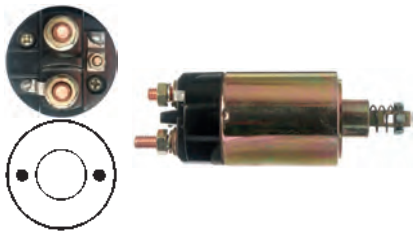
## 133424 Solenoid

**Replacing:** F000SH0145, F000SH0139, F000SH0124, F000SH0108, 9330081066, 2339303256, 2339303251, 2339303207

**Servicing:** 0001107015, 0001107044, 0001107066, 0001107089, 0001107091, 0001107097, 0001107109, 0001107110, 0001107111, 0001108018

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 26.85, **OD** 56.20, **OD/cover** 49.30, **Total length** 141.00, **Height/B+** 20.00, **Width/kl. 50** 15.30, **Coil bolt** M8, **Coil bolt 2** 12.65, **No./terminals** 3

*Cap: HC-CARGO 138004.*



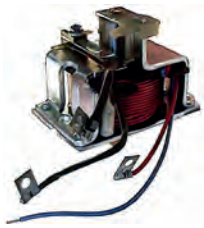
## 133428 Solenoid

**Replacing:** 0331302596, 0331302096

**Servicing:** 0001208403, 0001311050, 0001311051, 0001311052, 0001311055, 0001311056, 0001314003, 0001314008, 0001314009, 0001314010

12 **V**, **B+** M8, **Kl. 50** M4, **OD** 50.10, **OD/cover** 49.80, **Total length** 142.75, **Height/B+** 16.95, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 12.55, **No./terminals** 3

*Cap: HC-CARGO 133777.*

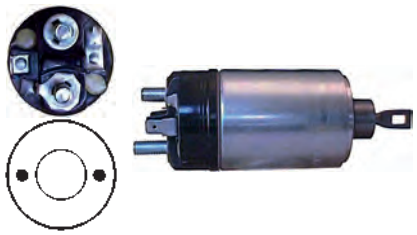


## 133487 Solenoid

**Replacing:** 0331450009

**Servicing:** 0001413001, 0001413003, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011, 0001413012, 0001413013

12 **V**



## 133636 Solenoid

**Replacing:** 0331302049, 0331302046, 0331302045, 0331302044, 0331302039, 0331302029

**Servicing:** 0001155016, 0001155017, 0001157004, 0001208032, 0001208036, 0001208037, 0001208038, 0001208039, 0001211012, 0001211013

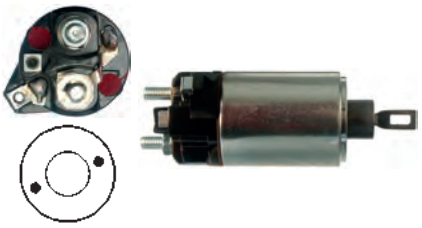
12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 50.25, **OD/cover** 50.00, **Total length** 145.00, **Height/B+** 17.25, **Width/kl. 15a** 12.55, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 13.15, **No./terminals** 4

*Cap: HC-CARGO 130479.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



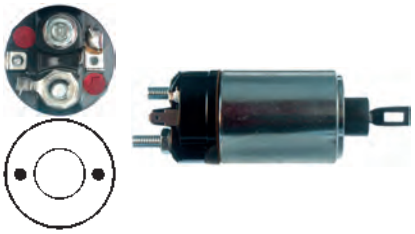
## 133642 Solenoid

**Replacing:** 0331302050, 0331302026, 0331302015, 0331302009, 0331302003, 0331302002

**Servicing:** 0001208001, 0001208003, 0001208009, 0001208025, 0001208026, 0001208033, 0001208048, 0001209002, 0001209003, 0001209008

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 4.70, **OD** 50.15, **OD/cover** 50.00, **Total length** 145.00, **Height/B+** 17.25, **Width/kl. 15a** 5.00, **Width/kl. 50** 6.00, **Coil bolt** M8, **Coil bolt 2** 13.40, **No./terminals** 4

*Cap: HC-CARGO 132778.*



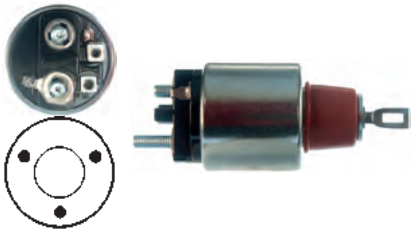
## 133643 Solenoid

**Replacing:** 0331302056

**Servicing:** 0001311042, 0001314001, 0001314004, B001315003

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **OD** 51.40, **OD/cover** 49.35, **Total length** 148.40, **Height/B+** 19.00, **Width/kl. 15a** 9.65, **Width/kl. 50** 13.55, **Coil bolt** M8, **Coil bolt 2** 9.80, **No./terminals** 4

*Cap: HC-CARGO 132781.*



## 133644 Solenoid

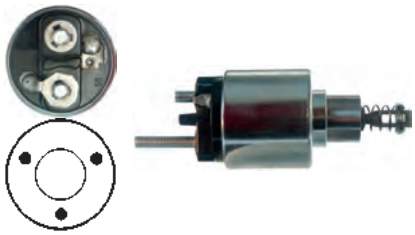
**Replacing:** 0331303021, 0331303012

**Servicing:** 0001312103, 0001314005, 0001314028, 0001314029, 0001314030, 0001314041, B001315038, B001315118, B001315141, B001315143

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 4.70, **ID/cover** 26.75, **OD** 56.25, **OD/cover** 49.45, **Total length** 142.20, **Height/B+** 19.80, **Width/kl. 15a** 6.35, **Width/kl. 50** 8.30, **Coil bolt** M8, **Coil bolt 2** 12.55, **No./terminals** 4

*Cap: HC-CARGO 132780.*

**Alternative no.:** 333555 5★



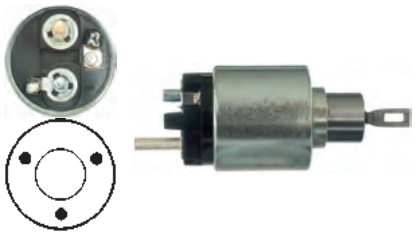
## 134376 Solenoid

**Replacing:** 0331303604, 0331303557, 0331303104, 0331303057

**Servicing:** 0001212213, 0001212214, 0001212402, 0001212403, 9000692078, B001229016, B001229202

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.95, **OD** 56.30, **OD/cover** 49.30, **Total length** 153.40, **Height/B+** 34.95, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 12.20, **No./terminals** 3

*Cap: HC-CARGO 133148.*



## 134378 5★ Solenoid

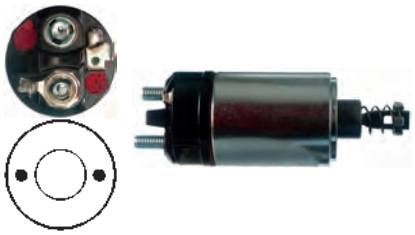
**Manufacturer:** Bosch

**Replacing:** 2339303429, 2339303402, 2339303234, 0331303234, 0331303101

**Servicing:** 0001110022, 0001110023, 0001110045, 0001110046, 0001110066, 0001110067, 0001110106, 0001110107, B001117129, B001117154

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.20, **OD** 56.25, **OD/cover** 49.55, **Total length** 146.40, **Height/B+** 25.00, **Width/kl. 50** 13.20, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3

*Cap: HC-CARGO 131315.*



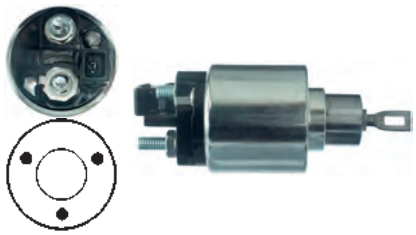
## 134823 Solenoid

**Replacing:** 0331302524, 0331302074, 0331302032, 0331302024

**Servicing:** 0001212002, 0001212003, 0001212005, 0001212006, 0001212007, 0001212008, 0001212012, 0001212013, 0001212209, B001229009

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.10, **OD/cover** 50.75, **Total length** 147.40, **Height/B+** 17.15, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 12.70, **No./terminals** 3

*Cap: HC-CARGO 131335.*



## 134824 Solenoid

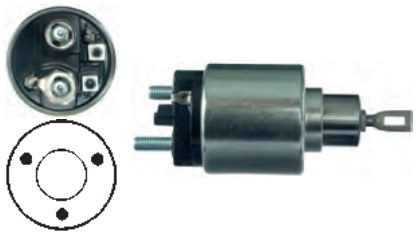
**Replacing:** F000SH0136, F000SH0133, F000SH0120, F000SH0102, 9330081068, 2339303724, 2339303722, 2339303418

**Servicing:** 0001107003, 0001107004, 0001107008, 0001107020, 0001107021, 0001107022, 0001107023, 0001107025, 0001107026, 0001107052

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.80, **OD** 56.30, **OD/cover** 49.65, **Total length** 145.25, **Height/B+** 19.75, **Coil bolt** M8, **Coil bolt 2** 12.25, **No./terminals** 3

*Cap: HC-CARGO 134825.*

**Alternative no.:** 333145 5★



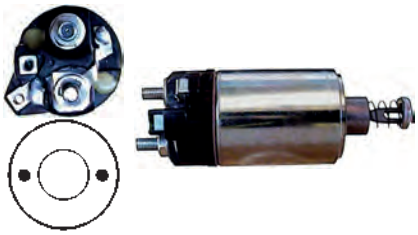
## 135065 Solenoid

**Replacing:** 0331303053, 0331303035

**Servicing:** 0001108120, 0001110011, 0001110016, 0001110078, 0001314027, 0001314035, 0001314036, B001111010, B001111044, B001111326

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 4.70, **ID/cover** 26.95, **OD** 56.30, **OD/cover** 49.40, **Total length** 140.25, **Height/B+** 20.30, **Width/kl. 15a** 6.35, **Width/kl. 50** 7.80, **Coil bolt** M8, **Coil bolt 2** 11.85, **No./terminals** 4

*Cap: HC-CARGO 132780.*



## 135358 Solenoid

**Replacing:** 0331502097, 0331302597, 0331302107, 0331302072, 0331302061, 0331302058

**Servicing:** 0001208227, 0001212011, 0001215001, 0001215003, 0001312100, 0001312102, 0001312110, 0001312111, B001322012, B001322022

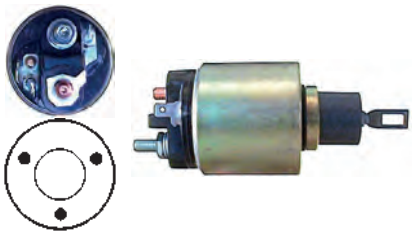
12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 4.70, **OD** 50.00, **OD/cover** 50.85, **Total length** 149.20, **Height/B+** 16.75, **Width/kl. 15a** 4.75, **Width/kl. 50** 5.60, **Coil bolt** M8, **Coil bolt 2** 13.10, **No./terminals** 4

*Cap: HC-CARGO 132778.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

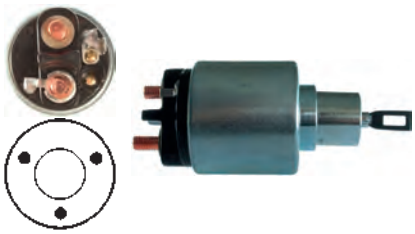


## 135526 Solenoid

**Replacing:** 9330331002, 0331303665, 0331303165

**Servicing:** 0001218152, 0001218812, 0001218817, 0001218818, 9000331201, 9000331203, 9000331421, 9000331423, 9000331428, 9000331430

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.95, **OD** 56.30, **OD/cover** 49.30, **Total length** 141.00, **Height/B+** 20.55, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 8.25, **No./terminals** 3
*Cap: HC-CARGO 132779.*



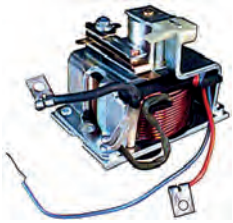
## 135583 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331303050

**Servicing:** 0001218002, 0001218151, 0001218164, 0001218602, 0001218764, 9000331420, B001233035, B001233190

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.25, **OD** 56.40, **OD/cover** 49.60, **Total length** 118.60, **Height/B+** 14.00, **Width/kl. 50** 11.75, **Coil bolt** M8, **Coil bolt 2** 9.65, **No./terminals** 3
*Cap: HC-CARGO 131315.*



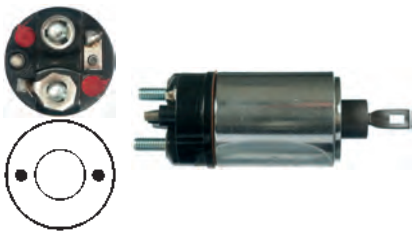
## 135862 5★ Solenoid

**Manufacturer:** Remy

**Replacing:** 0331450010

**Servicing:** 0001413004, 0001413005, 0001418009, 0001418011, B001418009

12 **V**
*Insulated return.*

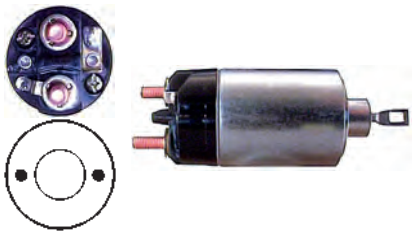


## 135878 Solenoid

**Replacing:** 0331302053

**Servicing:** 0001208050, 0001208250, 0001217001, 0001311032, 0001311033, 0001311034, 0001311037, 0001311038, 0001311048

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **OD** 50.30, **OD/cover** 49.45, **Total length** 145.15, **Height/B+** 17.00, **Width/kl. 15a** 9.15, **Width/kl. 50** 12.30, **Coil bolt** M8, **Coil bolt 2** 13.15, **No./terminals** 3
*Cap: HC-CARGO 131334.*

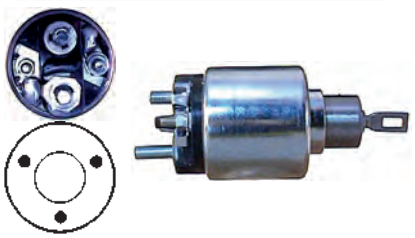


## 136025 Solenoid

**Replacing:** 0331302543, 0331302052, 0331302043, 0331302034, 0331302030, 0331302027, 0331302025, 0331302011

**Servicing:** 0001208006, 0001208007, 0001208014, 0001208017, 0001208018, 0001208023, 0001208024, 0001208029, 0001208032, 0001211005

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.85, **OD/cover** 49.70, **Total length** 146.70, **Height/B+** 17.15, **Width/kl. 50** 12.15, **Coil bolt** M8, **Coil bolt 2** 12.75, **No./terminals** 3
*Cap: HC-CARGO 131335.*

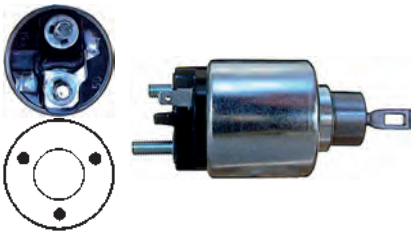


## 136036 Solenoid

**Replacing:** 2339303246, 2339303244, 0331303617, 0331303616, 0331303120, 0331303117, 0331303116, 0331303105

**Servicing:** 0001108018, 0001108042, 0001108063, 0001108064, 0001108065, 0001108108, 0001108115, 0001108145, 0001110041, 0001110042

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M6, **ID/cover** 26.90, **OD** 56.25, **OD/cover** 49.40, **Total length** 140.60, **Height/B+** 19.70, **Width/kl. 15a** 13.10, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 11.80, **No./terminals** 4
*Cap: HC-CARGO 136108. w/ 30H terminal.*



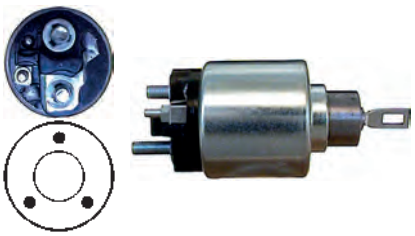
## 136369 Solenoid

**Replacing:** 2339303311, 2339303223, 2339303209, 0331303562, 0331303155, 0331303121, 0331303072, 0331303062

**Servicing:** 0001108022, 0001108051, 0001108074, 0001108143, 0001108180, 0001108182, 0001110003, 0001110026, 0001110089, 0001110095

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 49.20, **Total length** 136.60, **Height/B+** 20.00, **Width/kl. 50** 13.15, **Coil bolt** M8, **Coil bolt 2** 11.70, **No./terminals** 3
*Cap: HC-CARGO 132779.*

**Alternative no.:** 333546 5★

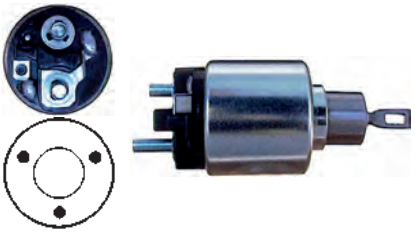


## 136370 Solenoid

**Replacing:** 0331303106

**Servicing:** 0001108051, 0001108056, B001111150, B001111170

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 26.90, **OD** 56.30, **OD/cover** 49.40, **Total length** 136.55, **Height/B+** 20.00, **Width/kl. 50** 12.90, **Coil bolt** M8, **Coil bolt 2** 11.90, **No./terminals** 3
*Cap: HC-CARGO 137706.*



## 136371 Solenoid

**Replacing:** 2339303261, 0331303263, 0331303135, 0331303115, 0331303017

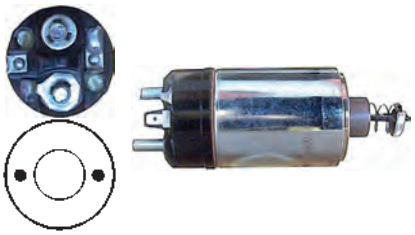
**Servicing:** 0001108098, 0001110039, 0001110053, 0001110113, 0001211231, B001111071, B001117050, B001117148, B001117149

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.40, **Total length** 140.00, **Height/B+** 19.30, **Width/kl. 50** 8.40, **Coil bolt** M8, **Coil bolt 2** 11.75, **No./terminals** 3
*Cap: HC-CARGO 139213.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

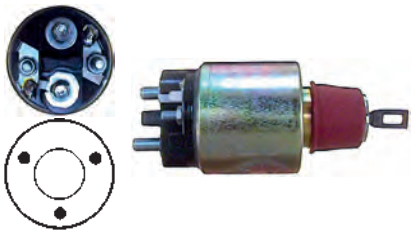


## 136544 Solenoid

**Replacing:** 0331302106, 0331302088

**Servicing:** 0001208203, 0001208205, 0001208214, 0001208406, 0001311146, 9000142101, 9000142102, B001208085, B001208101

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 49.85, **Total length** 143.65, **Height/B+** 16.90, **Width/kl. 15a** 14.75, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 13.15, **No./terminals** 4
*Cap: HC-CARGO 130479.*

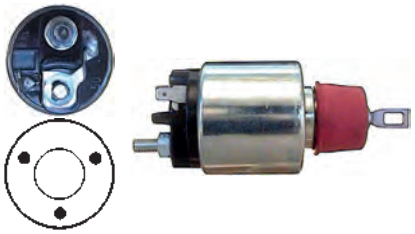


## 136615 Solenoid

**Replacing:** 2339303245, 0331303146

**Servicing:** 0001110071, 0001110072, 0001218171, B001117153, B001117157, B001117161

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.25, **OD/cover** 49.50, **Total length** 145.75, **Height/B+** 15.00, **Width/kl. 30h** 10.70, **Width/kl. 50** 13.55, **Coil bolt** M8, **Coil bolt 2** 10.15, **No./terminals** 4
*Cap: HC-CARGO 136108. w/ 30H terminal.*

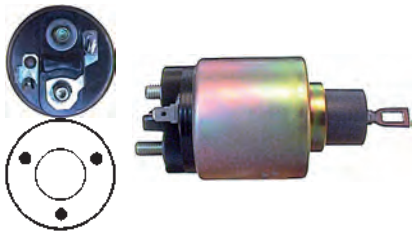


## 136717 Solenoid

**Replacing:** 9330331006, 2339303858

**Servicing:** 0001218168, 0001218768, 0001218820, 0001218821, 9000331432, 9000331433

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.90, **OD** 56.35, **OD/cover** 49.25, **Total length** 142.80, **Height/B+** 20.75, **Width/kl. 50** 11.50, **Coil bolt** M8, **Coil bolt 2** 8.70, **No./terminals** 3
*Cap: HC-CARGO 132779.*

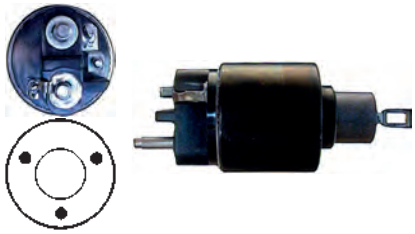


## 136779 Solenoid

**Replacing:** 9330141039, 2339303252, 0331303095

**Servicing:** 0001112007, 0001112032, 9000333114, B001180019

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.35, **OD/cover** 49.45, **Total length** 133.45, **Height/B+** 14.80, **Width/kl. 50** 11.60, **Coil bolt** M8, **Coil bolt 2** 10.20, **No./terminals** 3
*Cap: HC-CARGO 132779.*



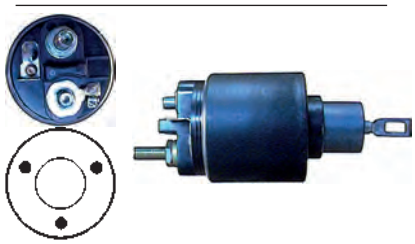
## 136786 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303236, 0331303630, 0331303236, 0331303130

**Servicing:** 0001107019, 0001108085, 0001108086, 0001108130, 0001108138, B001110044, B001111164, B001111257, B001111258, B001111399

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.20, **OD** 56.45, **OD/cover** 49.90, **Total length** 128.85, **Height/B+** 29.45, **Width/kl. 50** 8.15, **Coil bolt** M8, **Coil bolt 2** 18.65, **No./terminals** 3
*Cap: HC-CARGO 231054.*

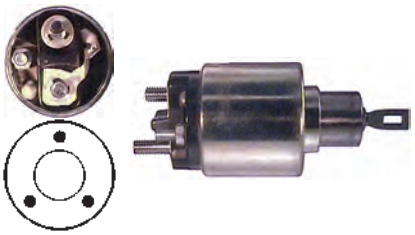


## 136852 Solenoid

**Replacing:** 2339303407, 2339303324, 2339303291, 2339303248, 2339303229, 0331303229, 0331303145

**Servicing:** 0001108113, 0001108114, 0001108174, 0001108175, 0001108220, 0001108221, 0001110122, 0001110123, 0001110126, 0001110127

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.25, **OD** 56.45, **OD/cover** 49.25, **Total length** 123.80, **Height/B+** 19.50, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 3
*Cap: HC-CARGO 137815.*

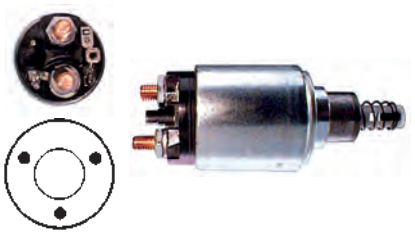


## 137175 Solenoid

**Replacing:** 2339303272, 1331303613, 0331303633, 0331303618, 0331303272, 0331303133, 0331303118

**Servicing:** 0001110040, 0001110047, 0001110059, B001117250, B001117255, B001117272

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.20, **Total length** 141.00, **Height/B+** 20.50, **Width/kl. 50** 16.15, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3
*Cap: HC-CARGO 138003.*



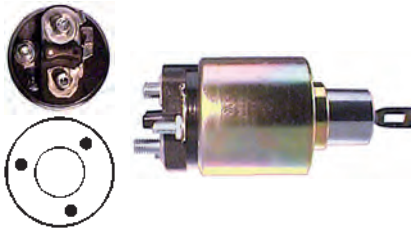
## 137232 Solenoid

**Replacing:** 2339402611, 2339402111, 0331402607, 0331402107

**Servicing:** 0001367077, 0001369014, B001828111

12 **V**, **B+** M10, **ID/cover** 29.95, **OD** 60.75, **OD/cover** 53.15, **Total length** 171.00, **Height/B+** 24.00, **Width/kl. 50** 2.20, **Coil bolt** M10, **Coil bolt 2** 17.60, **No./terminals** 3
*Cap: HC-CARGO 131317.*

**Alternative no.:** 333495 5★



## 137266 Solenoid

**Replacing:** 2339303318, 2339303315, 2339303312, 2339303220, 0331303642, 0331303142

**Servicing:** 0001107010, 0001107038, 0001107092, 0001107093, 0001108197, 0001109015, 0001109042, 0001109052, 0001109055, 0001109062

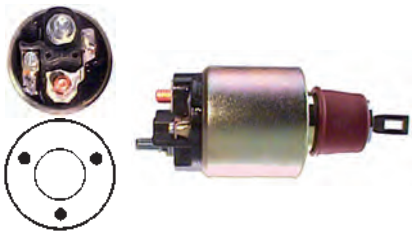
12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.15, **OD/cover** 49.55, **Total length** 133.80, **Height/B+** 13.45, **Width/kl. 50** 10.20, **Coil bolt** M8, **Coil bolt 2** 7.90, **No./terminals** 3
*Cap: HC-CARGO 138003.*

**Alternative no.:** 333150 5★



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



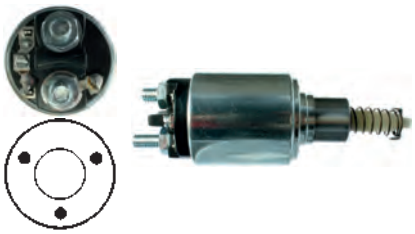
## 137276 Solenoid

**Replacing:** 9330331510, 9330331010

**Servicing:** 0001218172, 0001218772, 0001223002, 0001223016, 0001223021

12 **V**, **B+** M8, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.20, **Total length** 142.00, **Height/B+** 20.20, **Width/kl. 50** 8.00, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3
*Cap: HC-CARGO 139213.*

**Alternative no.:** 333141 5★

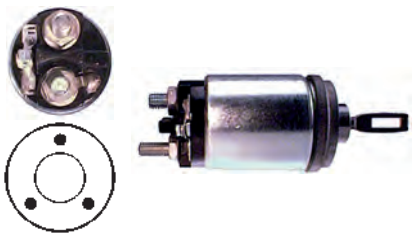


## 137368 Solenoid

**Replacing:** 0331402011

**Servicing:** 0001365004, 0001365005, 0001365006, 0001365007, 0001365008, B001819001, B001819009, B001819015, B001819117

12 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.25, **Total length** 182.30, **Height/B+** 24.30, **Width/kl. 50** 2.85, **Coil bolt** M10, **Coil bolt 2** 16.65, **No./terminals** 3
*Cap: HC-CARGO 131318.*

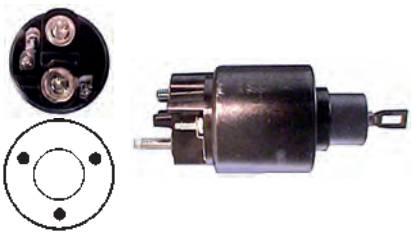


## 137443 Solenoid

**Replacing:** 0331401509, 0331401016, 0331401009

**Servicing:** 0001354012, 0001354027, 0001354038, 0001354055, 0001354083, 0001354084, 0001354094, 0001354096, 0001354108, 0001354113

12 **V**, **B+** M10, **ID/cover** 29.85, **OD** 61.00, **OD/cover** 53.15, **Total length** 175.15, **Height/B+** 23.75, **Width/kl. 50** 2.85, **Coil bolt** M10, **Coil bolt 2** 17.60, **No./terminals** 3
*Cap: HC-CARGO 134383.*



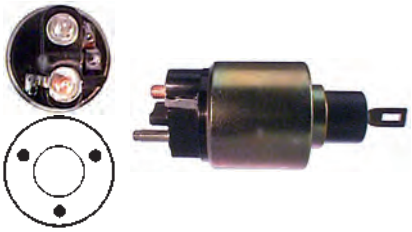
## 137490 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303237, 0331303643, 0331303143

**Servicing:** 0001108074, 0001108112, 0001108125, 0001108128, 0001112019, 0001112029, B001111347, B001111390, B001111432, B001180044

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.20, **OD** 56.20, **OD/cover** 49.75, **Total length** 148.75, **Height/B+** 21.30, **Width/kl. 50** 11.25, **Coil bolt** M8, **Coil bolt 2** 7.65, **No./terminals** 3
*Cap: HC-CARGO 139525.*



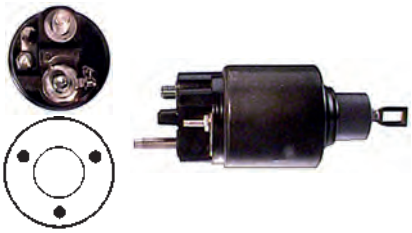
## 137491 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 9330331001, 2339303857

**Servicing:** 0001218157, 0001218757, 0001223001, 0001223014

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 49.35, **Total length** 152.20, **Height/B+** 22.75, **Width/kl. 50** 9.45, **Coil bolt** M8, **Coil bolt 2** 7.90, **No./terminals** 3
*Cap: HC-CARGO 231565.*



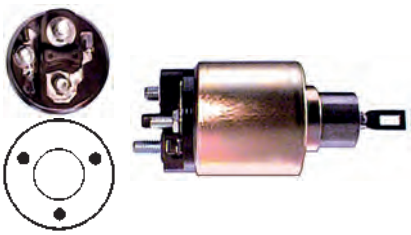
## 137612 Solenoid

**Replacing:** F00SH0131, F00SH0125, F000SH0131, F000SH0125, 2339304008

**Servicing:** 0001108162, 0001112041, 0001116003

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.10, **OD** 56.40, **OD/cover** 49.80, **Total length** 147.30, **Height/B+** 21.40, **Width/kl. 50** 10.30, **Coil bolt** M8, **Coil bolt 2** 7.25, **No./terminals** 3
*Cap: HC-CARGO 234845.*

**Alternative no.:** 333590 5★

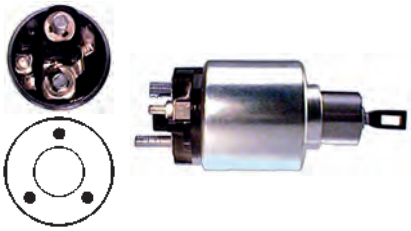


## 137613 Solenoid

**Replacing:** 2339303706, 2339303206, 2339303201, 2339303001

**Servicing:** 0001107034, 0001107045, 0001107056, 0001107100, 0001107101, 0001107108, 0001108148, 0001108170, B001110097, F005M00001

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.15, **OD** 56.40, **OD/cover** 49.25, **Total length** 124.25, **Height/B+** 16.40, **Width/kl. 50** 10.25, **No./terminals** 3
*Cap: HC-CARGO 138003.*

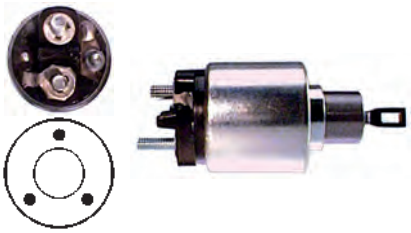


## 137693 Solenoid

**Replacing:** 9330081061, 9330081060, 0331303607, 0331303107

**Servicing:** 0001108052, 0001108056, 0001108154, 9000081007, 9000082072, 9000082074, B001111171

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 49.40, **Total length** 140.30, **Height/B+** 20.25, **Width/kl. 50** 8.45, **Coil bolt** M8, **Coil bolt 2** 12.25, **No./terminals** 3
*Cap: HC-CARGO 137706.*



## 137696 Solenoid

**Replacing:** 2339303273, 0331303134

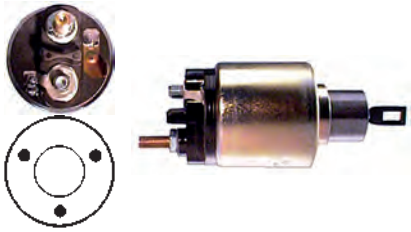
**Servicing:** 0001110060, 0001110073, B001117271, B001117274

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.35, **OD/cover** 49.00, **Total length** 140.45, **Height/B+** 20.10, **Width/kl. 50** 8.90, **Coil bolt** M8, **Coil bolt 2** 12.15, **No./terminals** 3
*Cap: HC-CARGO 138004.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



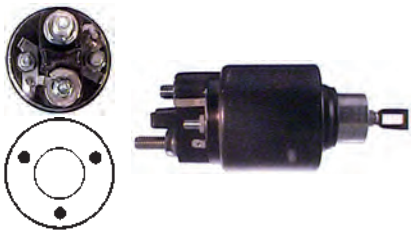
## 137877 Solenoid

**Replacing:** 2339303712, 2339303212

**Servicing:** 0001110102

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.90, **OD** 56.40, **OD/cover** 49.80, **Total length** 132.50, **Height/B+** 60.00, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 8.30, **No./terminals** 3

*Cap: HC-CARGO 232416.*



## 137879 Solenoid

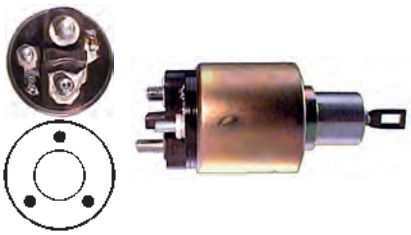
**Replacing:** 2339304046, 2339304040, 2339304013, 2339304010, 2339304009, 2339304005

**Servicing:** 0001107442, 0001107443, 0001108157, 0001108169, 0001108196, 0001108230, 0001108245, 0001108401, 0001109025, 0001109200

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 24.15, **OD** 52.15, **OD/cover** 45.65, **Total length** 136.30, **Height/B+** 14.00, **Width/kl. 30h** 7.70, **Width/kl. 50** 9.90, **Coil bolt** M8, **Coil bolt 2** 7.40, **No./terminals** 4

*Cap: HC-CARGO 231558.*

**Alternative no.:** 333565 5★



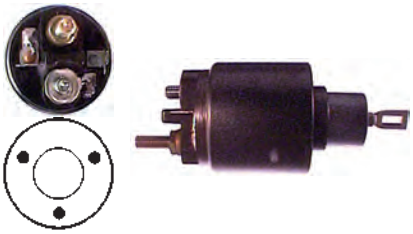
## 137951 Solenoid

**Replacing:** 0331303659, 0331303159

**Servicing:** 0001108123, B001111412

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.15, **OD/cover** 49.65, **Total length** 137.65, **Height/B+** 14.45, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 8.75, **No./terminals** 3

*Cap: HC-CARGO 138003.*



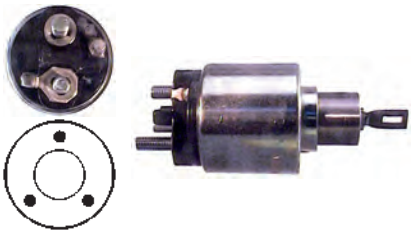
## 137982 Solenoid

**Replacing:** 2339303438, 2339303411, 2339303254

**Servicing:** 0001107054, 0001107055, 0001107068, 0001107069, 0001107073, 0001107074

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 27.25, **OD** 56.40, **OD/cover** 49.70, **Total length** 143.60, **Height/B+** 24.80, **Width/kl. 15a** 14.00, **Width/kl. 50** 13.75, **Coil bolt** M8, **Coil bolt 2** 10.30, **No./terminals** 4

*Cap: HC-CARGO 139598.*



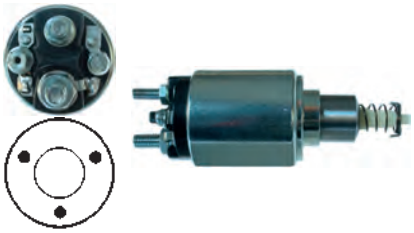
## 138005 Solenoid

**Replacing:** 2339303208, 0331303169, 0331303137

**Servicing:** 0001107033, 0001108070, 0001108103, 0001108104, 0001108105, 0001108129, 0001108134, 0001108135, 0001108995, 0001108996

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 49.75, **Total length** 140.55, **Height/B+** 19.80, **Width/kl. 50** 17.60, **Coil bolt** M8, **Coil bolt 2** 12.25, **No./terminals** 3

*Cap: HC-CARGO 138006.*



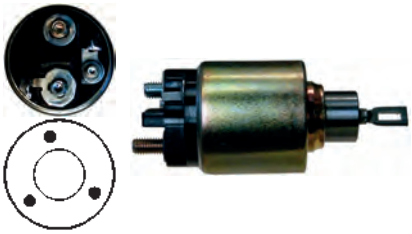
## 138313 Solenoid

**Replacing:** 0331402606, 0331402106, 0311402606

**Servicing:** 0001369015, 0001369021, 0001369200, B001828107, B001828113

12 **V**, **B+** M8, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 54.00, **Total length** 171.00, **Height/B+** 23.85, **Width/kl. 15a** 2.65, **Width/kl. 50** 3.15, **Coil bolt** M10, **Coil bolt 2** 24.00, **No./terminals** 4

*Cap: HC-CARGO 232024.*



## 138763 Solenoid

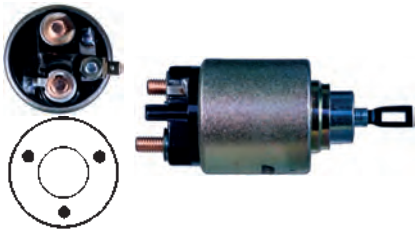
**Replacing:** 2339304050, 2339304047, 2339304015

**Servicing:** 0001107043, 0001107062, 0001107087, 0001107407, 0001107410, 0001107417, 0001107418, 0001107499, 0001107500, 0001107501

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.00, **OD** 52.45, **OD/cover** 45.30, **Total length** 111.70, **Height/B+** 13.10, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 9.35, **No./terminals** 3

*Cap: HC-CARGO 137349.*

**Alternative no.:** 333163 5★



## 138877 Solenoid

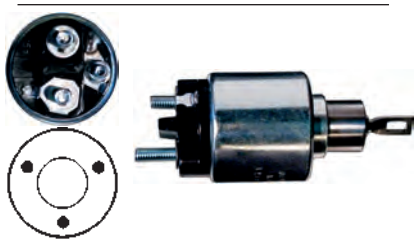
**Replacing:** 2339304053, 2339304001, 0331304053, 0331304001

**Servicing:** 0001106011, 0001106020, 0001107016, 0001107040, 0001107041, 0001107046, 0001107059, 0001107082, 0001107107, 0001108121

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.25, **OD** 52.00, **OD/cover** 45.85, **Total length** 130.55, **Height/B+** 14.60, **Width/kl. 50** 14.80, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3

*Cap: HC-CARGO 137349.*

**Alternative no.:** 333149 5★



## 138971 Solenoid

**Replacing:** 0331303640, 0331303540, 0331303140

**Servicing:** 0001107014, 0001107027, 0001107028, 0001107029, 0001108035, 0001108040, 0001108071, 0001108082, 0001108083, 0001108084

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.30, **Total length** 140.00, **Height/B+** 19.70, **Width/kl. 50** 15.80, **Coil bolt** M8, **Coil bolt 2** 11.75, **No./terminals** 3

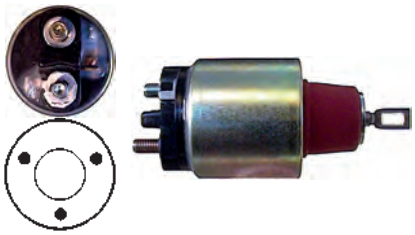
*Cap: HC-CARGO 138004.*

**Alternative no.:** 333148 5★



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

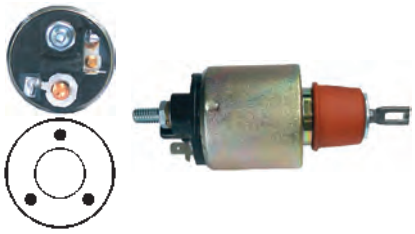


## 139014 Solenoid

**Replacing:** 9330331009, 2339303279, 0331303668, 0331303168

**Servicing:** 0001108144, 0001109008, 0001109040, 0001109043, 0001109044, 0001110120, 0001218171, 0001218771, 0001314047, 0001314048

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.30, **OD/cover** 50.00, **Total length** 140.45, **Height/B+** 13.70, **Width/kl. 50** 10.60, **Coil bolt** M8, **Coil bolt 2** 8.15, **No./terminals** 3
*Cap: HC-CARGO 131315.*

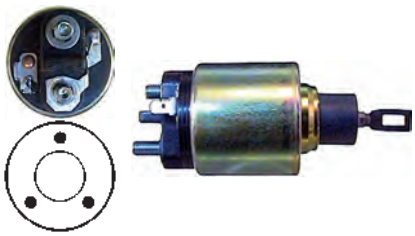


## 139018 Solenoid

**Replacing:** 9330331012

**Servicing:** 0001218173

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.20, **OD** 56.30, **OD/cover** 50.00, **Total length** 146.00, **Height/B+** 19.85, **Width/kl. 50** 14.50, **Coil bolt** M8, **Coil bolt 2** 8.95, **No./terminals** 3
*Cap: HC-CARGO 131315.*

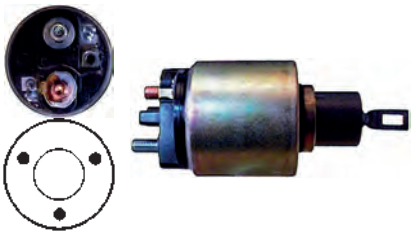


## 139019 Solenoid

**Replacing:** 2339304003

**Servicing:** 0001107047, 0001112036

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.00, **OD** 52.30, **OD/cover** 45.80, **Total length** 130.00, **Height/B+** 14.25, **Width/kl. 50** 11.40, **Coil bolt** M8, **Coil bolt 2** 8.95, **No./terminals** 3
*Cap: HC-CARGO 231815.*

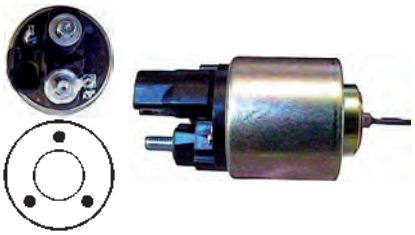


## 139068 Solenoid

**Replacing:** 0331303103

**Servicing:** 0001218025, 0001218029, 0001218107, 0001218109, 0001218160, B001233017, B001233112, B001233168, B001233174

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.85, **Total length** 137.85, **Height/B+** 14.15, **Width/kl. 50** 7.40, **Coil bolt** M8, **Coil bolt 2** 8.40, **No./terminals** 3
*Cap: HC-CARGO 132780.*



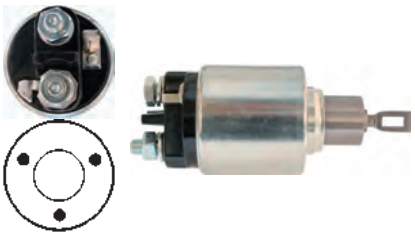
## 139069 Solenoid

**Replacing:** 2339303839, 2339303306, 2339303294, 2339303202

**Servicing:** 0001107030, 0001107075, 0001107079, 0001109034, 0001110132, B001110240, F000AL0321

12 **V**, **B+** M8, **ID/cover** 26.30, **OD** 56.25, **OD/cover** 49.65, **Total length** 124.15, **Height/B+** 13.80, **Coil bolt** M8, **Coil bolt 2** 8.35, **No./terminals** 3
*Cap: HC-CARGO 139597.*

**Alternative no.:** 333601 5★

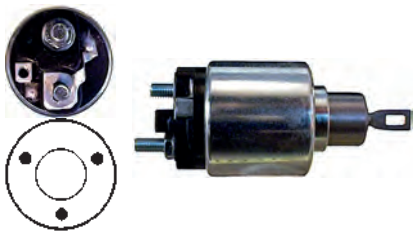


## 139075 Solenoid

**Replacing:** 2339304069, 2339304068, 2339304023, 2339304007, 2339304006

**Servicing:** 0001106014, 0001107062, 0001107067, 0001107072, 0001107076, 0001107078, 0001107083, 0001107096, 0001107403, 0001108166

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.10, **OD** 52.25, **OD/cover** 45.30, **Total length** 127.00, **Height/B+** 14.00, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 9.35, **No./terminals** 3
*Cap: HC-CARGO 231802.*

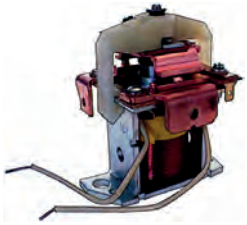


## 139212 Solenoid

**Replacing:** 9330091064, 9330081064, 0331303522, 0331303022

**Servicing:** 0001208209, 0001208226, 9000081006, 9000082064, 9000082076, 9000082078, 9000142001, 9000142002, 9000142014, B001208122

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.55, **Total length** 141.30, **Height/B+** 20.75, **Width/kl. 50** 8.45, **Coil bolt** M8, **Coil bolt 2** 11.95, **No./terminals** 3
*Cap: HC-CARGO 138926.*



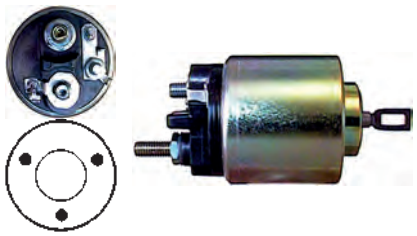
## 139466 5★ Solenoid

**Manufacturer:** Remy

**Replacing:** 0331101012

**Servicing:** 0001413004, 0001413005, 0001418009, 0001418011, B001418009

12 **V**, **OD** 69.30, **Total length** 92.00
*Insulated return.*



## 139498 Solenoid

**Replacing:** F010SH0105, F000SH0123, 2339303394, 2339303227

**Servicing:** 0001108202, 0001108234, 0001108235, 0001108239, 0001108240, 0001109018, 0001109030, 0001109045, 0001109048, 0001109253

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.20, **OD/cover** 49.85, **Total length** 145.00, **Height/B+** 20.90, **Width/kl. 50** 14.15, **Coil bolt** M8, **Coil bolt 2** 9.10, **No./terminals** 3
*Cap: HC-CARGO 138004.*

**Alternative no.:** 333592 5★



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 139500 5★ Solenoid

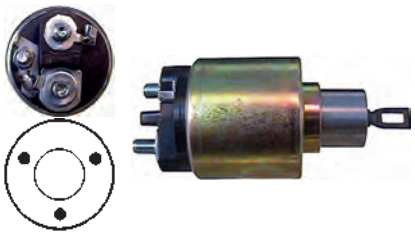
**Manufacturer:** Bosch

**Replacing:** 9330331004, 2339303853, 2339303820, 2339303320

**Servicing:** 0001107088, 0001218166, 0001218766, 9001107088, F005M00021

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 27.00, **OD** 56.40, **OD/cover** 49.85, **Total length** 100.90, **Height/B+** 14.55, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 3

*Cap: HC-CARGO 139597.*



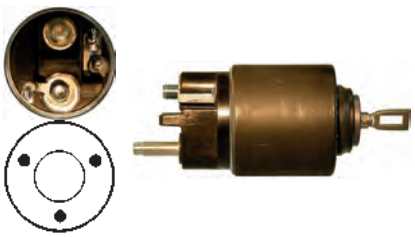
## 139549 Solenoid

**Replacing:** 0331303317, 0331303164

**Servicing:** 0001107011, 0001107039, 0001112018, B001110092, B001180055

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.30, **OD/cover** 49.95, **Total length** 133.90, **Height/B+** 12.30, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

*Cap: HC-CARGO 138004.*



## 230115 5★ Solenoid

**Manufacturer:** Bosch

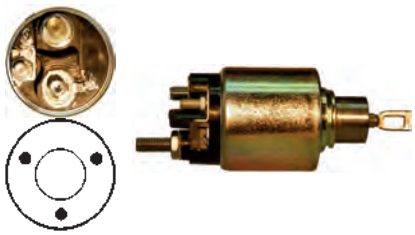
**Replacing:** 2339304011

**Servicing:** 0001107063, 0001107176, 0001108176, 0001108183, 0001109026

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 24.00, **OD** 52.20, **OD/cover** 45.60, **Total length** 141.85, **Height/B+** 21.35, **Width/kl. 50** 13.55, **Coil bolt** M8, **Coil bolt 2** 7.30, **No./terminals** 3

*Cap: HC-CARGO 231828.*

**Alternative no.:** 333999



## 230258 5★ Solenoid

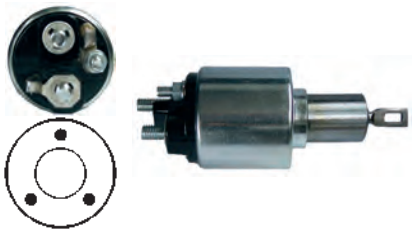
**Manufacturer:** Bosch

**Replacing:** 2339304022, 0331303670, 0331303170

**Servicing:** 0001107408, 0001109061, 0001113006, 0001116005

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.15, **OD** 52.15, **OD/cover** 46.00, **Total length** 138.35, **Height/B+** 20.95, **Width/kl. 50** 12.80, **Coil bolt** M8, **Coil bolt 2** 8.40, **No./terminals** 3

*Cap: HC-CARGO 231882.*



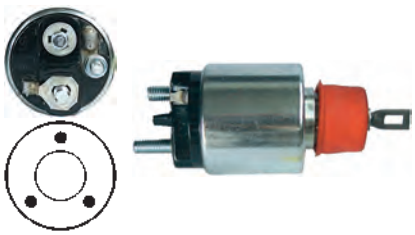
## 230323 Solenoid

**Replacing:** 2339303210

**Servicing:** 0001107031, 0001107032, 0001108160

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.40, **OD/cover** 50.30, **Total length** 144.45, **Height/B+** 22.50, **Width/kl. 50** 16.45, **Coil bolt** M8, **Coil bolt 2** 12.70, **No./terminals** 3

*Cap: HC-CARGO 138004.*



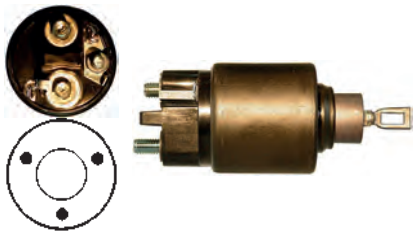
## 230324 Solenoid

**Replacing:** 2339303221

**Servicing:** 0001107049, 0001108188, 9007045009, 9007045020

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.30, **OD/cover** 49.00, **Total length** 142.30, **Height/B+** 20.00, **Width/kl. 50** 12.15, **Coil bolt** M8, **Coil bolt 2** 11.75, **No./terminals** 3

*Cap: HC-CARGO 138004.*



## 230356 Solenoid

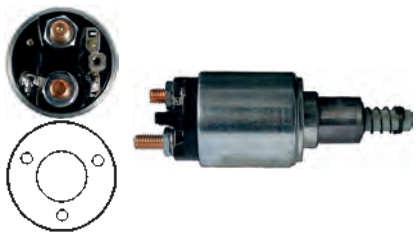
**Replacing:** 2339305089, 2339304069, 2339304039, 2339304021, 2339304019, 2339304018, 2339304002

**Servicing:** 0001107037, 0001107048, 0001107062, 0001107067, 0001107072, 0001107078, 0001107083, 0001107096, 0001107403, 0001107406

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.00, **OD** 52.20, **OD/cover** 45.65, **Total length** 130.70, **Height/B+** 12.90, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 7.65, **No./terminals** 3

*Cap: HC-CARGO 233075.*

**Alternative no.:** 333157 5★



## 230452 Solenoid

**Replacing:** 2339402183, 2339402132

**Servicing:** 0001223506, 0001230006, 0001230012, 0001230014

12 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 30.00, **OD** 61.40, **OD/cover** 53.25, **Total length** 151.00, **Height/B+** 25.20, **Width/kl. 50** 3.90, **Coil bolt** M10, **Coil bolt 2** 14.35, **No./terminals** 3

*Cap: HC-CARGO 231825.*

**Alternative no.:** 333596 5★

## 230635 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303267

**Servicing:** 0001107102, 0001108197, 0001108205, 0001115005, B001115020, F000AL0319

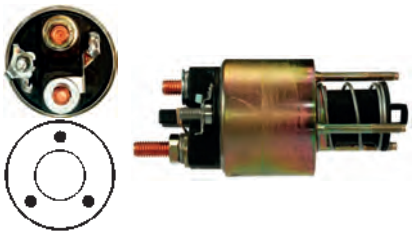
12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.20, **OD** 56.20, **OD/cover** 50.20, **Total length** 139.40, **Height/B+** 12.65, **Width/kl. 50** 12.95, **Coil bolt** M8, **Coil bolt 2** 7.80, **No./terminals** 3

*Cap: HC-CARGO 233925.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



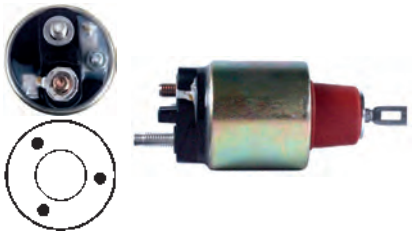
## 230809 Solenoid

**Replacing:** F000SH0127

**Servicing:** F000AL0309, F000AL0310

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.75, **OD** 54.00, **OD/cover** 47.40, **Total length** 123.00, **Height/B+** 23.45, **Width/kl. 50** 9.95, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3

*Cap: HC-CARGO 139601.*



## 230847 5★ Solenoid

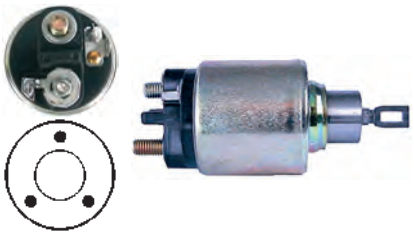
**Manufacturer:** Bosch

**Replacing:** 2339303282

**Servicing:** 0001109033

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.25, **OD/cover** 49.75, **Total length** 147.20, **Height/B+** 20.35, **Width/kl. 50** 10.20, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 3

*Cap: HC-CARGO 138004.*



## 230848 Solenoid

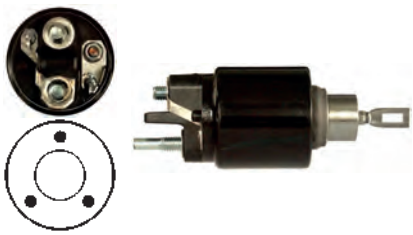
**Replacing:** 2339304062, 2339304025, 2339304020

**Servicing:** 0001106407, 0001116001

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.00, **OD** 52.25, **OD/cover** 45.65, **Total length** 126.15, **Height/B+** 14.65, **Width/kl. 50** 11.45, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

*Cap: HC-CARGO 234437.*

**Alternative no.:** 333561 5★



## 231203 5★ Solenoid

**Manufacturer:** Bosch

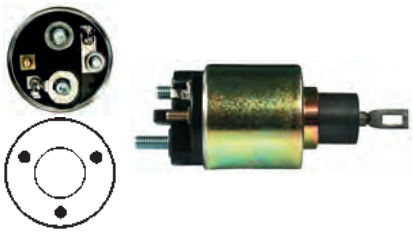
**Replacing:** 2339304055, 2339304038

**Servicing:** 0001106012, 0001106017

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 52.30, **OD/cover** 50.30, **Total length** 135.85, **Switch dim.** 2.65, **Height/B+** 24.40, **Width/kl. 50** 11.20, **Coil bolt** M8, **Coil bolt 2** 7.75, **No./terminals** 3

*Cap: HC-CARGO 233786. Moving contact: HC-CARGO 234439.*

**Alternative no.:** 335000

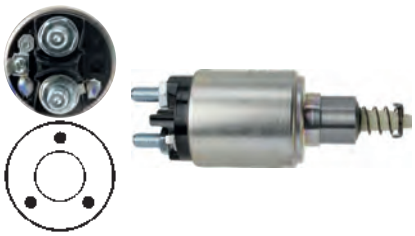


## 231217 Solenoid

**Replacing:** 2339303204, 0331303627, 0331303127

**Servicing:** 0001108080, 0001108146, B001111263, B001111423

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M6, **ID/cover** 27.10, **OD** 56.25, **OD/cover** 49.50, **Total length** 142.00, **Height/B+** 17.95, **Width/kl. 15a** 11.20, **Width/kl. 50** 9.75, **Coil bolt** M8, **Coil bolt 2** 7.85, **No./terminals** 4

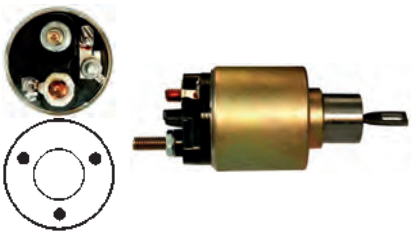


## 231223 Solenoid

**Replacing:** 6033AD4031, 2339402143

**Servicing:** 0001230007, 0001230020, 0001230021, 0001230022, F002G20785

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.10, **OD** 61.35, **OD/cover** 64.10, **Total length** 172.35, **Height/B+** 24.85, **Width/kl. 50** 14.00, **Coil bolt** M10, **Coil bolt 2** 23.80, **No./terminals** 3



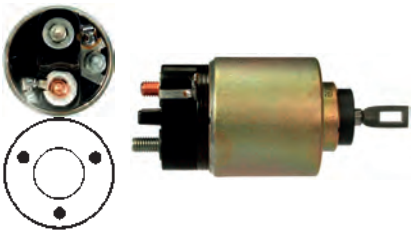
## 231653 Solenoid

**Replacing:** 6033AD0312, 2339303448

**Servicing:** 0001223013

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 26.35, **OD** 56.30, **OD/cover** 49.40, **Total length** 144.90, **Switch dim.** 7.40, **Height/B+** 20.65, **Width/kl. 50** 13.15, **Coil bolt** M8, **Coil bolt 2** 10.25, **No./terminals** 3

**Alternative no.:** 333547 5★



## 231790 5★ Solenoid

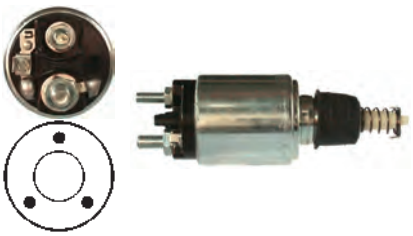
**Manufacturer:** Bosch

**Replacing:** 2339303333, 0331303651, 0331303151

**Servicing:** 0001115012, 0001115024, 0001218140, 0001218150, 0001218156, 0001218162, 0001218740, 0001223005, B001233245, B001233264

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 26.60, **OD** 56.30, **OD/cover** 50.40, **Total length** 143.20, **Switch dim.** 7.10, **Height/B+** 12.20, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

*Cap: HC-CARGO 233488.*



## 231801 Solenoid

**Replacing:** 2339402115

**Servicing:** 0001369023, 0001369101, 0001369201

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 29.95, **OD** 60.80, **OD/cover** 54.00, **Total length** 181.75, **Height/B+** 23.95, **Width/kl. 50** 13.60, **Coil bolt** M10, **Coil bolt 2** 24.80, **No./terminals** 3

*Cap: HC-CARGO 131319.*

**Alternative no.:** 333493 5★



# STARTER COMPONENTS

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 231975 Solenoid

**Replacing:** 0331400068, 0331400008

**Servicing:** 0001354016, 0001354018, 0001354031, 0001354080, 0001354085, EJD1,8/12R70

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 60.90, **OD/cover** 53.25, **Total length** 174.70, **Height/B+** 27.40, **Width/kl. 50** 2.40, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

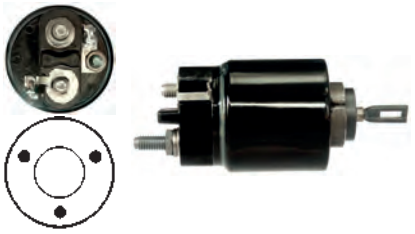
## 232182 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303437, 2339303410, 2339303285, 0331303410

**Servicing:** 0001107070, 0001107071

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.15, **OD** 56.50, **OD/cover** 49.90, **Total length** 156.15, **Height/B+** 19.00, **Width/kl. 50** 13.75, **Coil bolt** M8, **Coil bolt 2** 7.65, **No./terminals** 3

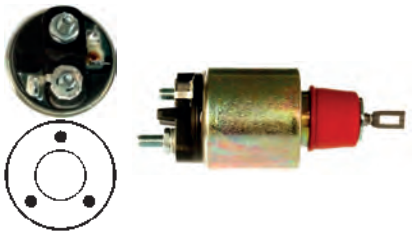


## 232185 Solenoid

**Replacing:** 2339303386, 2339303354, 2339303319

**Servicing:** 0001124018, 0001124019, 0001125505, 0001125506

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 18.30, **OD** 56.50, **OD/cover** 54.50, **Total length** 152.00, **Switch dim.** 6.60, **Height/B+** 15.50, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 7.70, **No./terminals** 3



## 232186 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303309

**Servicing:** 0001109041

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 18.20, **OD** 56.20, **OD/cover** 54.60, **Total length** 146.40, **Switch dim.** 6.60, **Height/B+** 18.10, **Width/kl. 50** 6.30, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

*Cap: HC-CARGO 131315.*

## 232188 5★ Solenoid

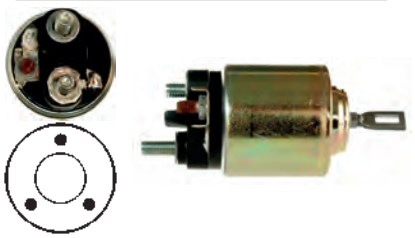
**Manufacturer:** Bosch

**Replacing:** 2339304054, 2339304033

**Servicing:** 0001106017, 0001106022, 0001106023, 0001106024, B001109104

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 24.25, **OD** 52.50, **OD/cover** 45.30, **Total length** 140.00, **Height/B+** 10.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 7.90, **No./terminals** 3

*Cap: HC-CARGO 234438. Moving contact: HC-CARGO 132276.*



## 232191 5★ Solenoid

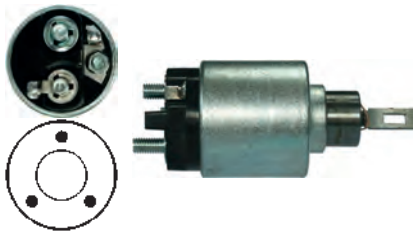
**Manufacturer:** Bosch

**Replacing:** 2339304058, 2339304024

**Servicing:** 0001107077, 0001107098

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 18.20, **OD** 52.30, **OD/cover** 50.30, **Switch dim.** 7.00, **Height/B+** 9.00, **Width/kl. 50** 12.60, **No./terminals** 3

*Cap: HC-CARGO 231882.*



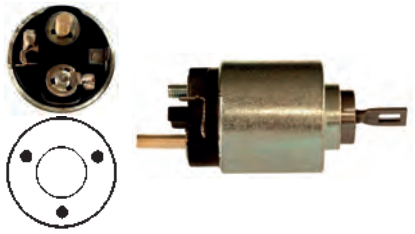
## 232420 Solenoid

**Replacing:** 0331303644, 0331303144

**Servicing:** 0001218132, 0001218133, 0001218147, 0001218159, 0001218759, B001233238, B001233256

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.15, **OD** 56.35, **OD/cover** 49.35, **Total length** 135.75, **Height/B+** 60.00, **Width/kl. 50** 9.25, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 3

*Cap: HC-CARGO 232421.*



## 233480 5★ Solenoid

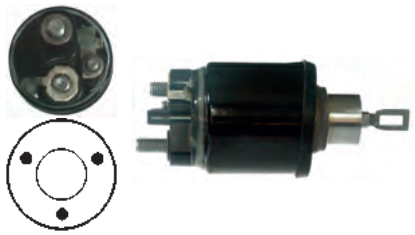
**Manufacturer:** Bosch

**Replacing:** 2339303230, 0331303662, 0331303162

**Servicing:** 0001107017, 0001107018, B001110043, B001110081

12 **V**, **B+** M8, **OD** 56.35, **OD/cover** 49.75, **Total length** 146.45, **Height/B+** 24.90, **No./terminals** 4

*Cap: HC-CARGO 139598.*



## 233577 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339304057, 2339304032, 2339304029

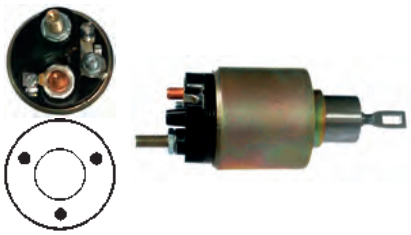
**Servicing:** 0001106015, 0001107401, 0001107402, 0001107404, 0001107405, 0001107409, 0001107429, 0001107435, 0001107436, 0001107437

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 21.00, **OD** 50.00, **OD/cover** 50.00, **Total length** 110.00, **Height/B+** 14.00, **Width/kl. 50** 10.70, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



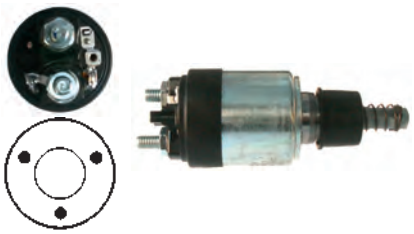
## 233578 Solenoid

**Replacing:** 6033AD1113, 6033AD0074, 2339303842

**Servicing:** 0001223003, 0001223007, 0001223024

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.25, **OD/cover** 49.80, **Total length** 150.80, **Height/B+** 16.80, **Width/kl. 50** 10.35, **No./terminals** 3

**Alternative no.:** 333240 5★



## 233579 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402203

**Servicing:** 0001362091, 0001369024, B001812372

12 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.95, **OD** 61.30, **OD/cover** 63.60, **Total length** 174.00, **Height/B+** 20.00, **Width/kl. 50** 3.65, **Coil bolt** M10, **Coil bolt 2** 15.10, **No./terminals** 3

## 233716 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303432, 2339303405, 2339303316, 2339303289

**Servicing:** 0001107073, 0001107074, 0001109021, 0001109022, 0001109066, 0001109067, 0001124020, 0001124021, B001116092

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.00, **OD** 56.40, **OD/cover** 49.55, **Total length** 143.75, **Height/B+** 18.55, **Width/kl. 50** 13.75, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

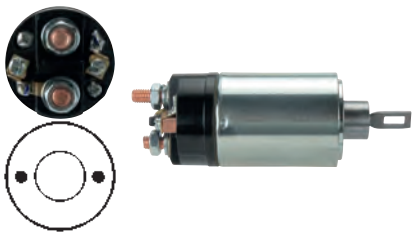
*Cap: HC-CARGO 137815.*

## 233796 Solenoid

**Replacing:** F000SH0203, 9337043526

**Servicing:** 6004AA0018, 9007045018

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.40, **Total length** 140.00, **Height/B+** 15.60, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 10.70, **No./terminals** 3

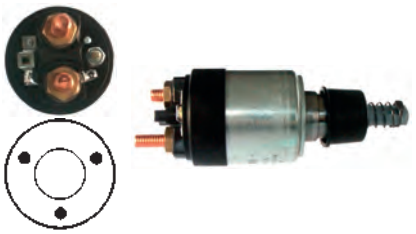


## 233896 Solenoid

**Replacing:** 9330041001, 0331302560, 0331302060

**Servicing:** 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311056, 0001314003, 0001314008, 0001314009

12 **V**, **B+** M8, **OD** 51.40, **OD/cover** 49.45, **Total length** 149.00, **Height/B+** 19.60, **Width/kl. 50** 4.85, **Coil bolt** M8, **Coil bolt 2** 10.30, **No./terminals** 3



## 233933 Solenoid

**Replacing:** 2339402126, 2339402118

**Servicing:** 0001367061, B001816377

12 **V**, **B+** M10, **Kl. 15a** 4.70, **Kl. 50** M4, **ID/cover** 29.95, **OD** 61.30, **OD/cover** 63.65, **Total length** 179.45, **Height/B+** 24.75, **Width/kl. 15a** 2.45, **Width/kl. 50** 14.30, **Coil bolt** M10, **Coil bolt 2** 14.10, **No./terminals** 4

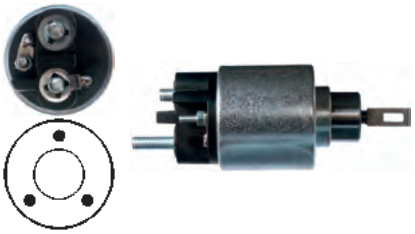
## 234287 Solenoid

**Replacing:** 2339402140

**Servicing:** 0001223504, 0001230023, 0001230026, 0001362105

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.15, **OD** 61.30, **OD/cover** 64.20, **Total length** 179.00, **Height/B+** 25.35, **Width/kl. 50** 13.70, **Coil bolt** M10, **Coil bolt 2** 24.30, **No./terminals** 3

**Alternative no.:** 333494 5★



## 234434 5★ Solenoid

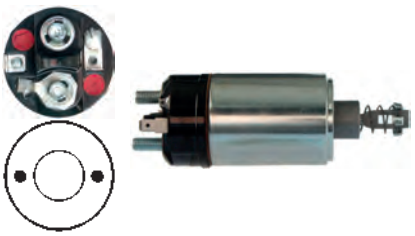
**Manufacturer:** Bosch

**Replacing:** 2339303322

**Servicing:** 0001108186

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.20, **OD** 56.40, **OD/cover** 49.70, **Total length** 147.55, **Height/B+** 23.20, **Width/kl. 50** 14.40, **Coil bolt** M8, **Coil bolt 2** 7.80, **No./terminals** 4

*Cap: HC-CARGO 139525.*



## 234857 Solenoid

**Replacing:** 0331302097

**Servicing:** 0001212208, 0001212209, 0001312100, B001322002

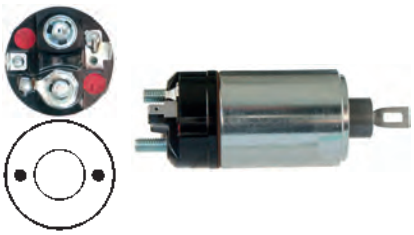
12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 50.15, **OD/cover** 49.85, **Total length** 148.50, **Height/B+** 16.40, **Width/kl. 15a** 11.70, **Width/kl. 50** 15.45, **Coil bolt** M8, **Coil bolt 2** 14.30, **No./terminals** 4

*Cap: HC-CARGO 130479.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

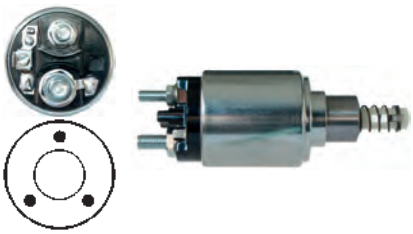


## 234858 Solenoid

**Replacing:** 0331302085, 0331302084, 0331302081

**Servicing:** 0001208100, 0001208202, 0001211200, 0001211241, 0001211251, 0001311103, 0001311105, 0001311106, 0001311108, 0001311114

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **OD** 50.25, **OD/cover** 50.00, **Total length** 142.65, **Height/B+** 16.45, **Width/kl. 15a** 15.90, **Width/kl. 50** 12.70, **Coil bolt** M8, **Coil bolt 2** 13.55, **No./terminals** 4



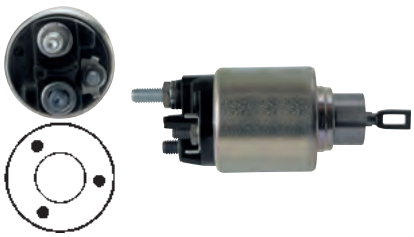
## 234859 Solenoid

**Replacing:** 2339402113

**Servicing:** 0001369020

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 29.90, **OD** 60.80, **OD/cover** 53.90, **Total length** 172.70, **Height/B+** 24.35, **Width/kl. 50** 15.20, **Coil bolt** M10, **Coil bolt 2** 25.00, **No./terminals** 3

*Cap: HC-CARGO 131319.*



## 234903 5★ Solenoid

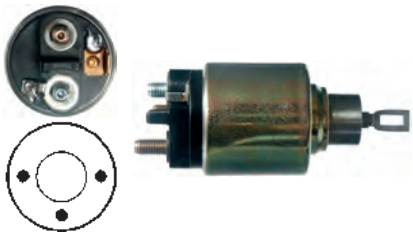
**Manufacturer:** Bosch

**Replacing:** 2339305232, 2339305100, 2339305048, 2339305017, 2339305004

**Servicing:** 0001107411, 0001107478, 0001107479, 0001107490, 0001107491, 0001108202, 0001108204, 0001108224, 0001108234, 0001108235

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 41.00, **OD** 52.40, **OD/cover** 50.30, **Total length** 137.00, **Switch dim.** 11.30, **Height/B+** 21.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

**Alternative no.:** 333998



## 234967 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339304026

**Servicing:** 0001106016, 0001107080, 0001116004

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 52.50, **OD/cover** 50.50, **Total length** 125.45, **Height/B+** 14.00, **Width/kl. 50** 16.75, **Coil bolt** M8, **Coil bolt 2** 14.55, **No./terminals** 3

*Terminal 50: 9.30 mm.*

## 235060 5★ Solenoid

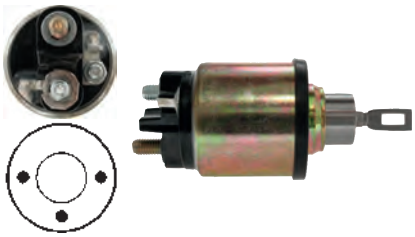
**Manufacturer:** Bosch

**Replacing:** 2339305324, 2339305077, 2339305055, 2339305040

**Servicing:** 0001121032, 0001121033, 0001123012, 0001123013, 0001123014, 0001123015, 0001123016, 0001123017, 0001123018, 0001123019

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.00, **OD** 52.25, **OD/cover** 45.50, **Total length** 153.20, **Height/B+** 18.20, **Coil bolt** M8, **Coil bolt 2** 8.55, **No./terminals** 3

**Alternative no.:** 333994



## 235107 Solenoid

**Replacing:** 2339304035

**Servicing:** 0001106015

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.00, **OD** 52.30, **OD/cover** 46.30, **Total length** 128.35, **Height/B+** 14.20, **Width/kl. 50** 14.20, **Coil bolt** M8, **Coil bolt 2** 8.55, **No./terminals** 3

## 235138 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305322, 2339305074, 2339305052, 2339305024, 2339305005

**Servicing:** 0001107423, 0001107424, 0001107527, 0001107528, 0001120400, 0001120401, 0001120402, 0001120403

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 25.85, **OD** 52.30, **OD/cover** 45.85, **Total length** 139.50, **Height/B+** 22.15, **Coil bolt** M8, **Coil bolt 2** 8.60, **No./terminals** 3

## 235292 Solenoid

**Replacing:** 2339303335

**Servicing:** 0001115015, 0001115020

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 43.00, **OD** 54.00, **OD/cover** 52.00, **Total length** 110.30, **Switch dim.** 6.50, **Height/B+** 13.00, **Width/kl. 50** 10.00, **No./terminals** 3

## 235535 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305337, 2339305213, 2339305076, 2339305054, 2339305034, 2339305014

**Servicing:** 0001107427, 0001107428, 0001120406, 0001120407, 0001120408, 0001120409, 0001120410, 0001120411, 0001121402, 0001121403

12 **V**, **B+** M8, **Kl. 50** 4.70, **OD** 52.35, **Total length** 149.90, **Height/B+** 17.20, **Coil bolt** M8, **Coil bolt 2** 8.20, **No./terminals** 3

**Alternative no.:** 333996



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#Available while stock last, * Program development.

## 235806 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402112

**Servicing:** 0001362331, 0001369019

12 **V**, **B+** M10, **Kl. 15a** M5, **OD** 61.50, **OD/cover** 53.80, **Total length** 183.50, **Height/B+** 60.00, **Width/kl. 15a** 15.00, **No./terminals** 3

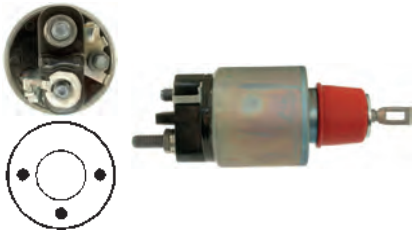
## 235871 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402134, 2339402128

**Servicing:** 0001367082

12 **V**, **B+** M10, **Kl. 15a** 6.30, **OD** 61.40, **OD/cover** 64.00, **Total length** 176.80, **Height/B+** 60.00, **Width/kl. 15a** 45.00, **No./terminals** 3



## 236516 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303422, 2339303387, 2339303355

**Servicing:** 0001123002, 0001123003, 0001125600, 0001125601

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.25, **OD/cover** 50.25, **Total length** 151.35, **Height/B+** 24.20, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 7.70, **No./terminals** 3

## 236645 Solenoid

**Replacing:** 2339402149

**Servicing:** 0001230002, 0001230018

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.92, **Total length** 123.00, **Height/B+** 20.29, **Width/kl. 50** 10.19, **No./terminals** 3

*Solenoid cap: HC-CARGO 231825.*

**Alternative no.:** 333591 5★

## 236837 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305047, 2339305026, 2339305013

**Servicing:** 0001107429, 0001107437, 0001107459, 0001107460, 0001108217, 0001108218, 0001108222, 0001108223, 0001109250, 0001115047

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.45, **Total length** 128.25, **Width/kl. 50** 10.00, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 333997

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## 236868* Solenoid

**Replacing:** 2339305120, 2339305081, 2339305059

**Servicing:** 0001107421, 0001107422, 0001108405, 0001108406

12 **V**, **B+** M8, **Kl. 50** Plug, **Height/B+** 15.00

## 237672 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305033

**Servicing:** 0001105205, 0001109300, 0001109301, 0001109302, 0001109303, 0001109313, 0001109324, 0001109325, 0001109332, 0001109333

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.45, **Total length** 129.80, **Height/B+** 16.00, **Width/kl. 50** 8.80, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 333995

## 238106 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305018

**Servicing:** 0001108400, 0001109364

12 **V**, **No./terminals** 3

## 238923 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305015

**Servicing:** 0001107430, 0001108402

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.40, **OD/cover** 50.50, **Total length** 136.75, **Switch dim.** 6.55, **Height/B+** 12.30, **Coil bolt** M8, **Coil bolt 2** 8.32, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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## 239776 Solenoid

**Replacing:** 2339305031

**Servicing:** 0001107433, 0001107434, 0001107440, 0001107441, 0001107448, 0001107449, 9001107434, F004A94434, F004A94441, F004A94449

12 **V**, **B+** M8, **OD** 52.34, **Total length** 108.98, **Height/B+** 13.96, **No./terminals** 3

## 239841 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305142, 2339305045

**Servicing:** 0001115040, 0001115041, 0001115045, 0001115046, 0001139025, 0001139026

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.28, **Total length** 98.76, **Height/B+** 16.64, **No./terminals** 3

## 239901 5★ Solenoid

**Replacing:** 2339305046

**Servicing:** 0001107438, 0001107439

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.28, **Total length** 96.78, **Height/B+** 12.78, **Width/kl. 50** 9.16, **No./terminals** 3

## 330005 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305030

**Servicing:** 0001108213, 0001108214, 0001108403, 0001108404, 0001109267

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.29, **Total length** 131.50, **No./terminals** 3

## 330030 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305325, 2339305119, 2339305078, 2339305056, 2339305025

**Servicing:** 0001108206, 0001108207, 0001108228, 0001108229, 0001109258, 0001109259, 0001109260, 0001109261, 0001109319, 0001109320

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.32, **Total length** 139.11, **Height/B+** 60.00, **Width/kl. 50** 15.00, **No./terminals** 3

## 330224 Solenoid

**Replacing:** 2339305050

**Servicing:** 0001106405, 0001106406

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.34, **OD/cover** 50.37, **Total length** 126.50, **Switch dim.** 6.36, **Height/B+** 21.08

## 330259 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305088, 2339305068, 2339305032

**Servicing:** 0001107452, 0001107453, 0001108415, 0001108416, 0001109064, 0001109065, 0001109275, 0001109276, 0001109315, 0001115056

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.44, **Total length** 143.27, **Height/B+** 18.05

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## 330264 Solenoid

**Replacing:** 2339305062

**Servicing:** 0001108411, 0001108412, 0001109304, 0001109305, 0001109328, 0001109329, 0001109391, 0001109392, 0001121422, 0001121423

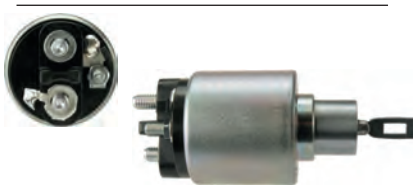
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.56, **Total length** 139.56, **Height/B+** 17.67, **Width/kl. 50** 8.39

## 330491 Solenoid

**Replacing:** 2339305084

**Servicing:** 0001138001, 0001138002, 0001138043, 0001138044, 0001138049, 0001138050, 0001148015, 0001148016

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.40, **Total length** 134.00, **Height/B+** 15.70, **Coil bolt** M8, **Coil bolt 2** 9.00



## 330698 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303396, 2339303277

**Servicing:** 0001121003, 0001123001, 0001124015

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.37, **Total length** 137.00, **Height/B+** 60.00, **Width/kl. 50** 45.00, **Coil bolt** M8, **Coil bolt 2** 8.48



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## 330787 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305064

**Servicing:** 0001109271, 0001109272, 0001109284, 0001109285, 0001115049, 0001115050, 0001115070, 0001115071

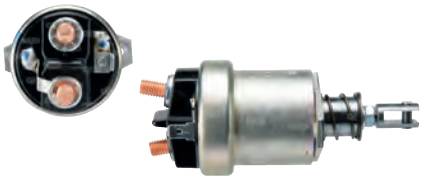
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.43, **Total length** 138.50, **Height/B+** 18.50, **Width/kl. 50** 9.20, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3

## 331017 Solenoid

**Replacing:** 6033AD0026, 6033AD0025, 2339303847

**Servicing:** 0001218822, 0001223010, 6033AB1J00

12 **V**, **B+** M8, **OD** 56.60, **OD/cover** 49.50, **Total length** 150.00, **Coil bolt** M8, **No./terminals** 3



## 331019 Solenoid

**Replacing:** 0331300025, 0331300022, 0331300019

**Servicing:** 0001305012, 0001305013, 0001305016, 0001305018, 0001307007, 0001307009, 0001307017, 0001307021, 0001307022, 0001307024

12 **V**, **B+** M8, **OD** 54.60, **Total length** 130.00, **No./terminals** 3

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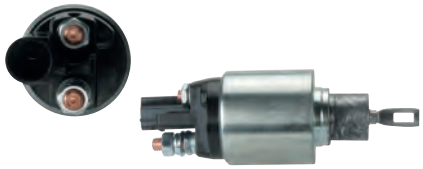
## 331985 Solenoid

**Replacing:** 2339305114

**Servicing:** 0001109069, 0001109070, 0001115068, 0001115069, 0001139001, 0001139002, 0001139015, 0001139016

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.30, **OD/cover** 50.40, **Total length** 138.60, **Switch dim.** 6.50, **Height/B+** 12.00, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 8.00, **No./terminals** 3



## 332069 Solenoid

**Replacing:** 2339305339, 2339305293, 2339305158

**Servicing:** Denne relæ er ikke magen til 235535 forskel på plunger. 1010 MIOL, 0001123028, 0001123029, 0001123036, 0001123037

12 **V**, **B+** M8, **Kl. 50** 4.70, **OD** 52.20, **Total length** 133.87, **Height/B+** 17.59, **Coil bolt** M8, **Coil bolt 2** 8.30, **No./terminals** 3

## 332153 Solenoid

**Replacing:** 2339305135, 2339305092

**Servicing:** 0001109306, 0001109307, 0001109321, 0001109322, 0001109342, 0001109343, 0001109371, 0001109375, 0001109376

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.00, **OD/cover** 51.00, **Total length** 126.18, **Height/B+** 24.51, **Width/kl. 50** 9.40, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3

## 332884 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303397, 2339303271, 0331303118

**Servicing:** 0001110047, 0001115011, 0001115013

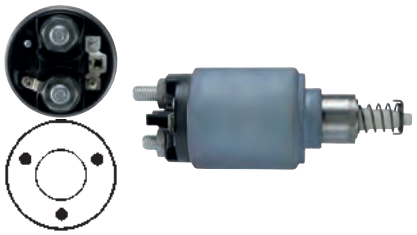
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.27, **Total length** 135.81, **Height/B+** 14.44, **Width/kl. 50** 10.12, **Coil bolt** M8, **Coil bolt 2** 7.49, **No./terminals** 3

## 332894 Solenoid

**Replacing:** 2339305111

**Servicing:** 0001137001, 0001137002, 0001137003, 0001137004, 0001137011, 0001137012, 0001138011, 0001138012

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.30, **Total length** 141.90, **Height/B+** 60.00, **Coil bolt** M8, **Coil bolt 2** 8.00, **No./terminals** 3



## 333137 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402121, 0339402121, 0331402503, 0331402502, 0331402202, 0331402003, 0331402002, 0331401045

**Servicing:** 0001358049, 0001358200, 0001358201, 0001358202, 0001359049, 0001359073, 0001359106, 0001359119, 0001359128, 0001359217

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.60, **OD** 61.00, **OD/cover** 53.45, **Total length** 164.30, **Height/B+** 23.00, **Width/kl. 30h** 16.00, **Width/kl. 50** 2.95, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 131317.*

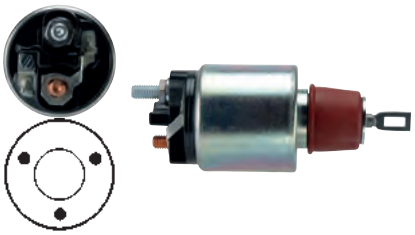
**Alternative no.:** 130302, 130302Z



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.



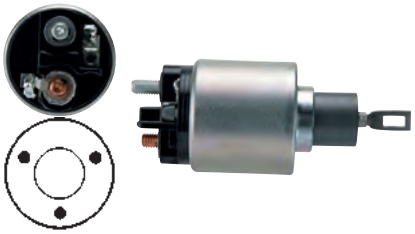
## 333141 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 9330331510, 9330331010

12 **V**, **B+** M8, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.20, **Total length** 142.00, **Height/B+** 20.20, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3
*Cap: HC-CARGO 139213.*

**Alternative no.:** 137276



## 333142 5★ Solenoid

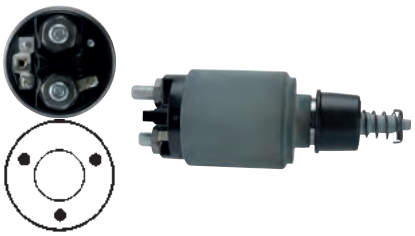
**Manufacturer:** Bosch

**Replacing:** 2339303447, 2339303263, 2339303262, 2339303260, 2339303102, 0331303654, 0331303154, 0331303061

**Servicing:** 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104, 0001108124, 0001108134

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.90, **OD** 56.55, **OD/cover** 49.50, **Total length** 140.15, **Height/B+** 19.80, **Width/kl. 50** 8.60, **Coil bolt** M8, **Coil bolt 2** 12.30, **No./terminals** 3
*Cap: HC-CARGO 132780.*

**Alternative no.:** 132258



## 333144 5★ Solenoid

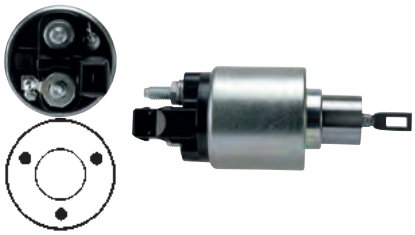
**Manufacturer:** Bosch

**Replacing:** 9330451063, 9330081028, 2339402141, 0331402570, 0331402568, 0331402209, 0331402070, 0331402068

**Servicing:** 0001362039, 0001362601, 0001362700, 0001369007, 0001369019

12 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 30.00, **OD** 61.50, **OD/cover** 53.25, **Total length** 181.75, **Height/B+** 21.00, **Width/kl. 50** M4, **No./terminals** 3
*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*

**Alternative no.:** 131141



## 333145 5★ Solenoid

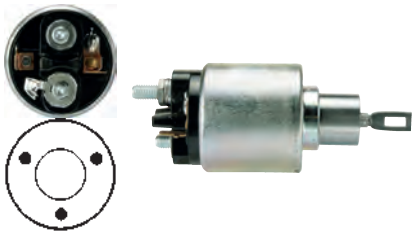
**Manufacturer:** Bosch

**Replacing:** F000SH0136, F000SH0133, F000SH0120, F000SH0102, 9330081068, 2339303724, 2339303722, 2339303377

**Servicing:** 0001107020, 0001107021, 0001107022, 0001107023, 0001107025, 0001107026, 0001107052, 0001107053, 0001107103, 0001107104

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.80, **OD** 56.30, **OD/cover** 49.65, **Coil bolt** M8, **Coil bolt 2** 12.25, **Total length** 145.25, **Height/B+** 19.75, **No./terminals** 3
*Cap: HC-CARGO 134825.*

**Alternative no.:** 134824



## 333146 5★ Solenoid

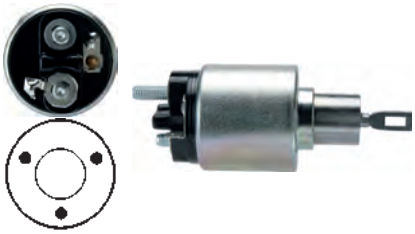
**Manufacturer:** Bosch

**Replacing:** F000SH0180, 9330043502, 9330043002, 2339303435, 2339303408, 2339303363, 2339303321, 2339303231

**Servicing:** 0001106001, 0001106002, 0001107003, 0001107004, 0001107007, 0001107008, 0001108001, 0001108002, 0001108005, 0001108006

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.35, **OD/cover** 49.70, **Total length** 138.00, **Height/B+** 18.60, **Width/kl. 50** 13.85, **Coil bolt** M8, **Coil bolt 2** 14.30
*Cap: HC-CARGO 131337.*

**Alternative no.:** 131586



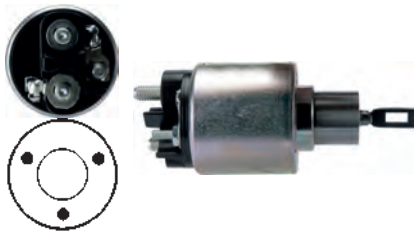
## 333147 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 9330081065, 2339303296, 0331303653, 0331303506, 0331303156, 0331303153, 0331303058, 0331303049

12 **V**, **B+** M8, **Kl. 30h** M8, **Kl. 50** 6.30, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.35, **Total length** 140.80, **Height/B+** 20.00, **Width/kl. 30h** 14.45, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 12.60, **No./terminals** 3
*Cap: HC-CARGO 131315.*

**Alternative no.:** 131143, 333665



## 333148 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331303640, 0331303540, 0331303140

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.30, **Total length** 140.00, **Height/B+** 19.70, **Width/kl. 50** 15.80, **Coil bolt** M8, **Coil bolt 2** 11.75, **No./terminals** 3
*Cap: HC-CARGO 138004.*

**Alternative no.:** 138971

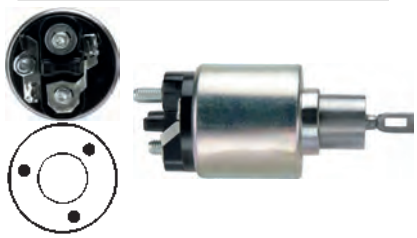
## 333149 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339304053, 2339304001, 0331304053, 0331304001

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.25, **OD** 52.00, **OD/cover** 48.85, **Total length** 130.55, **Height/B+** 14.60, **Width/kl. 50** 14.80, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3
*Cap: HC-CARGO 137349.*

**Alternative no.:** 138877



## 333150 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303318, 2339303315, 2339303312, 2339303220, 0331303642, 0331303142

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 27.00, **OD** 56.15, **OD/cover** 49.55, **Total length** 133.80, **Height/B+** 13.45, **Width/kl. 50** 10.20, **Coil bolt** M8, **Coil bolt 2** 7.90, **No./terminals** 3
*Cap: HC-CARGO 138003.*

**Alternative no.:** 137266



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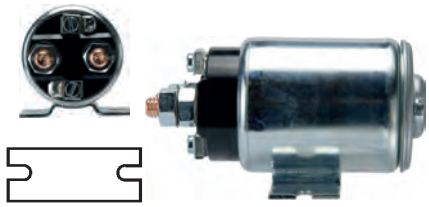
#Available while stock last, * Program development.



## 333153 5★ Solenoid

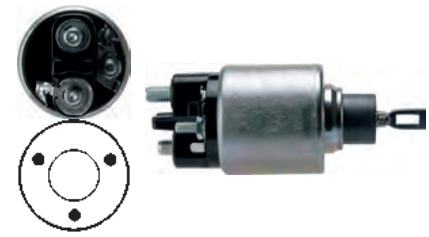
**Manufacturer:** Bosch

**Replacing:** 0333009004

12 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.75, **OD/cover** 44.00, **Total length** 100.15, **Height/B+** 17.75, **Coil bolt** M8, **Coil bolt 2** 17.75, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131373, 131373Z



## 333157 5★ Solenoid

**Manufacturer:** Bosch

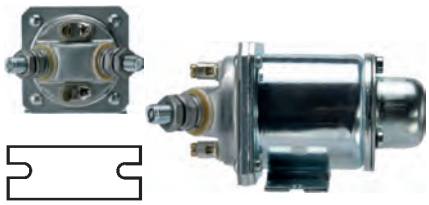
**Replacing:** 2339305089, 2339304069, 2339304039, 2339304021, 2339304019, 2339304018, 2339304002

**Servicing:** 0001107037, 0001107048, 0001107072, 0001107096, 0001107403, 0001107406, 0001108184, 0001109014, 0001109036, 0001110112

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.00, **OD** 52.20, **OD/cover** 45.65, **Total length** 130.70, **Height/B+** 12.90, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 7.65, **No./terminals** 3

*Cap: HC-CARGO 233075.*

**Alternative no.:** 230356



## 333160 5★ Solenoid

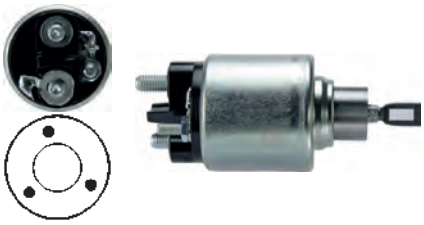
**Manufacturer:** Bosch

**Replacing:** 0333006005, 0333006004

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4

*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 131370



## 333163 5★ Solenoid

**Manufacturer:** Bosch

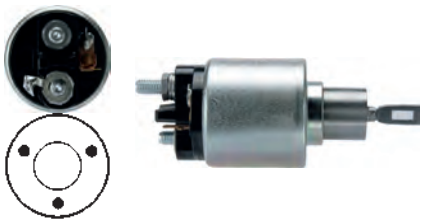
**Replacing:** 2339304050, 2339304047, 2339304015

**Servicing:** 0001107062, 0001107417, 0001107418, 0001107499, 0001107500, 0001107501, 0001107502, 0001108408, 0001108430, 0001108431

12 **V**, **B+** M8, **Kl. 30h** M10, **Kl. 50** M6, **ID/cover** 24.00, **OD** 52.45, **OD/cover** 45.30, **Total length** 111.70, **Height/B+** 13.10, **Width/kl. 30h** 45.00, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 9.35, **No./terminals** 3

*Cap: HC-CARGO 137349.*

**Alternative no.:** 138763



## 333166 5★ Solenoid

**Manufacturer:** Bosch

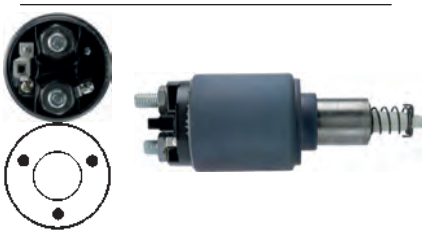
**Replacing:** 2339303296, 0331303570, 0331303070, 0331303064, 0331303045, 0331303043

**Servicing:** 9000695002

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.75, **OD** 56.25, **OD/cover** 49.30, **Total length** 139.75, **Height/B+** 20.45, **Width/kl. 50** 11.25, **Coil bolt** M8, **Coil bolt 2** 12.25, **No./terminals** 3

*Cap: HC-CARGO 133202.*

**Alternative no.:** 132827



## 333168 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402704, 0331402539, 0331402535, 0331402530, 0331402519, 0331402504, 0331402501, 0331402205

**Servicing:** 0001358051, 0001359008, 0001359074, 0001359075, 0001359090, 0001359095, 0001359102, 0001359107, 0001359108, 0001359122

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.80, **OD** 61.30, **OD/cover** 53.35, **Total length** 164.00, **Height/B+** 24.00, **Width/kl. 30h** 16.45, **Width/kl. 50** 3.30, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131318.*

**Alternative no.:** 130301, 130301Z

## 333239 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303412, 2339303377

**Servicing:** 0001107103, 0001121006, 0001121007, 0001121008, 0001121016, 0001121017, 0001121018, 0001121019, 0001121022, 0001121023

12 **V**, **B+** M8, **OD** 33.00, **Total length** 100.00

## 333240 5★ Solenoid

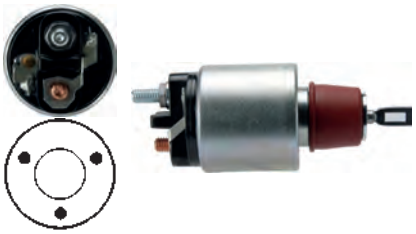
**Manufacturer:** Bosch

**Replacing:** 6033AD1113, 6033AD0074, 2339303842

**Servicing:** 0001223003, 0001223024

12 **V**, **OD** 33.00, **Total length** 101.50

**Alternative no.:** 233578



## 333241 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 9330331006, 2339303858

**Servicing:** 0001218168, 0001218768

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.37, **Total length** 142.64, **Height/B+** 15.45, **Width/kl. 50** 11.50, **Coil bolt** M8, **Coil bolt 2** 8.70, **No./terminals** 3

**Alternative no.:** 136717



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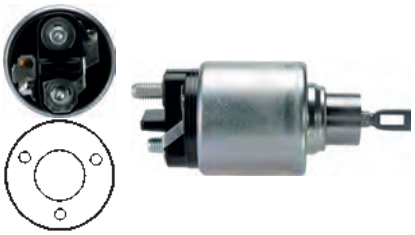
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 333242 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339304037
**Servicing:** 0001109046
12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 33.05, **Total length** 123.00, **Height/B+** 14.45, **Width/kl. 50** 30.00

## 333243 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339305051
**Servicing:** 0001109205, 0001109324, 0001109387, 0001109388, 0001115088, 0001115089, 0001115092, 0001115093
12 **V**, **B+** M8, **Kl. 15a** M6, **OD** 52.00, **Total length** 93.00

## 333310 Solenoid

**Replacing:** 2339303266
**Servicing:** 0001107064
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.40, **OD/cover** 49.90, **Total length** 143.45, **Height/B+** 23.00, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3

## 333316 Solenoid

**Replacing:** 2339305066
**Servicing:** 0001109273, 0001109274, 0001115051, 0001115052, 0001115073, 0001115076, 0001115077
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 53.00, **OD/cover** 45.30, **Total length** 117.00, **Coil bolt** M8, **No./terminals** 3

## 333321 Solenoid

**Replacing:** 2339402119
**Servicing:** 0001230001
12 **V**, **B+** M10, **Kl. 50** M4, **OD** 61.50, **OD/cover** 54.50, **Total length** 166.50, **No./terminals** 3

## 333395 Solenoid

**Replacing:** 2339304070
**Servicing:** 0001108428, 0001108429
12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.50, **OD/cover** 45.30, **Total length** 140.00, **Height/B+** 28.00, **Width/kl. 50** 20.00, **Coil bolt** M8, **No./terminals** 3

## 333483 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 0333009018
24 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 49.50, **OD/cover** 42.50, **Total length** 112.20, **Height/B+** 45.00, **Width/kl. 15a** 60.00, **Width/kl. 50** 30.00, **Coil bolt** M8, **No./terminals** 4
**Alternative no.:** 333628

## 333493 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402115
**Servicing:** 0001369023, 0001369201
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 61.50, **OD/cover** 54.00, **Total length** 112.20, **Switch dim.** 19.50, **Height/B+** 15.00, **Coil bolt** M10, **Coil bolt 2** 19.00, **No./terminals** 3
**Alternative no.:** 231801

## 333494 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402140
**Servicing:** 0001223504, 0001230023, 0001230026
12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 61.50, **OD/cover** 54.00, **Total length** 112.20, **Switch dim.** 19.50, **Height/B+** 19.50, **Width/kl. 50** 13.00, **Coil bolt** M10, **No./terminals** 3
**Alternative no.:** 234287

## 333495 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402611, 2339402111, 0331402607, 0331402107
**Servicing:** 0001367077, 0001369014
12 **V**, **B+** M10, **Kl. 50** M4, **OD** 61.50, **OD/cover** 54.00, **Total length** 108.00, **Switch dim.** 19.30, **Height/B+** 25.60, **Coil bolt** M10, **No./terminals** 3
**Alternative no.:** 137232

## 333545 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 0331303555, 0331303132, 0331303076, 0331303056, 0331303055
**Servicing:** 0001110009, 0001110010, 0001208425, 0001208426, 0001208428, 0001211251, 0001211252, 0001211253, 0001211254, 0001212211
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.30, **OD/cover** 50.10, **Total length** 98.60, **Height/B+** 30.50, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 12.75, **No./terminals** 3
*Cap: HC-CARGO 133148.*
**Alternative no.:** 133421



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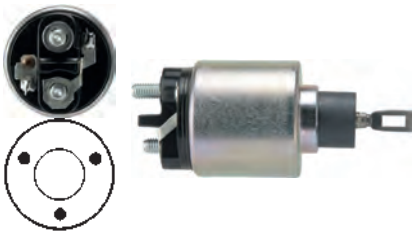
#Available while stock last, * Program development.



## 333546 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303311, 2339303223, 2339303209, 0331303562, 0331303155, 0331303121, 0331303072, 0331303062

**Servicing:** 0001108051, 0001108143, 0001108180, 0001108182, 0001110003, 0001110026, 0001110089, 0001110095, 0001110114, 0001112025

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.40, **OD/cover** 50.20, **Total length** 81.80, **Switch dim.** 10.70, **Height/B+** 20.00, **Width/kl. 50** 12.20, **Coil bolt** M8, **Coil bolt 2** 11.70, **No./terminals** 3

**Alternative no.:** 136369

## 333547 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 6033AD0312, 2339303448

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.40, **OD/cover** 49.70, **Total length** 92.20, **Switch dim.** 10.70, **Height/B+** 16.50, **Width/kl. 50** 9.80, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3

**Alternative no.:** 231653

## 333555 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331303021, 0331303012, 0331303011

**Servicing:** 0001312101

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M4, **OD** 56.40, **OD/cover** 49.90, **Total length** 87.10, **Switch dim.** 10.60, **Height/B+** 20.50, **Coil bolt** M8, **No./terminals** 4

**Alternative no.:** 133644

## 333565 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339304046, 2339304040, 2339304013, 2339304010, 2339304009, 2339304005

**Servicing:** 0001107442, 0001107443, 0001108157, 0001108230, 0001108401, 0001109025, 0001109200, 0001109201

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **OD** 52.30, **OD/cover** 45.70, **Total length** 95.70, **Height/B+** 24.70, **Width/kl. 30h** 7.70, **Width/kl. 50** 9.90, **Coil bolt** M8, **Coil bolt 2** 7.40, **No./terminals** 4

**Alternative no.:** 137879

## 333568 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331303597, 0331303560, 0331303122, 0331303097, 0331303091, 0331303090, 0331303083, 0331303060

**Servicing:** 0001208211, 0001208213, 0001218003, 0001218012, 0001218013, 0001218018, 0001218019, 0001218020, 0001218024, 0001218101

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.50, **OD/cover** 50.00, **Total length** 92.80, **Switch dim.** 10.70, **Height/B+** 26.00, **Width/kl. 50** 13.40, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 132267

## 333572 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303413, 2339303378, 2339303345, 2339303293

**Servicing:** 0001107009, 0001107085, 0001108099, 0001109012, 0001109017, 0001109049, 0001110001, 0001110002, 0001110068, 0001110133

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.30, **OD/cover** 49.70, **Total length** 87.60, **Switch dim.** 10.60, **Height/B+** 20.80, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 12.60, **No./terminals** 3

**Alternative no.:** 131143

## 333586 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402524, 0331402024

**Servicing:** 0001358202, 0001359094, 0001362307, 0001367071

12 **V**, **B+** M10, **Kl. 50** M4, **OD** 61.50, **OD/cover** 54.00, **Total length** 108.20, **Height/B+** 25.70, **Coil bolt** M10, **No./terminals** 3

**Alternative no.:** 132253

## 333587 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402513, 0331402200, 0331402013

**Servicing:** 0001359084, 0001359111, 0001367034, 0001367039, 0001367059

12 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.60, **OD/cover** 54.00, **Total length** 103.00, **Height/B+** 20.50, **Coil bolt** M10, **No./terminals** 3

**Alternative no.:** 131042

## 333590 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** F00SH0131, F00SH0125, F000SH0131, F000SH0125, 2339304008

**Servicing:** 0001112041, F000AL0325, F000AL0327

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 56.60, **OD/cover** 49.60, **Total length** 94.40, **Height/B+** 20.00, **Width/kl. 50** 13.30, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 137612



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 333591 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402149

**Servicing:** 0001230002, 0001230018

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.50, **OD/cover** 53.90, **Total length** 112.50, **Switch dim.** 19.30, **Height/B+** 25.10, **Width/kl. 50** 10.20, **Coil bolt** M10, **No./terminals** 3

**Alternative no.:** 236645

## 333592 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** F010SH0105, F000SH0123, 2339303227

**Servicing:** 0001109018, 0001109030, 0001109045, 0001109048, 0001109253, F002G20506

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 56.50, **OD/cover** 49.80, **Total length** 92.30, **Height/B+** 20.40, **Width/kl. 50** 12.80, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 139498

## 333596 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402132

**Servicing:** 0001223506, 0001230006, 0001230012

12 **V**, **B+** M10, **Kl. 50** M4, **OD** 61.60, **OD/cover** 54.00, **Total length** 108.00, **Height/B+** 24.50, **Coil bolt** M10, **No./terminals** 3

**Alternative no.:** 230452

## 333601 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303839, 2339303306, 2339303294, 2339303202

**Servicing:** 0001109034

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 56.50, **OD/cover** 49.80, **Total length** 92.30, **Switch dim.** 10.60, **Height/B+** 13.80, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 139069

## 333665 Solenoid

**Replacing:** 2339303296, 0331303653, 0331303506, 0331303156, 0331303153, 0331303058, 0331303049, 0331303026

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.35, **OD/cover** 49.35, **Total length** 140.80, **Height/B+** 20.00, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 3

**Alternative no.:** 131143, 333147 5★

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## 333744 Solenoid

**Replacing:** 2339402131

**Servicing:** 0001230003, 0001230005

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.35, **OD/cover** 53.85, **Total length** 174.50, **Height/B+** 19.90, **Coil bolt** M10, **Coil bolt 2** 10.00, **No./terminals** 3

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## 333780 Solenoid

**Replacing:** 2339305236, 2339305145

**Servicing:** 0001139029, 0001139030, 0001139408, 0001139409

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.85, **Total length** 137.50, **Height/B+** 11.95, **Width/kl. 50** 12.25, **Coil bolt** M8, **Coil bolt 2** 3.50, **No./terminals** 3

## 333795 Solenoid

**Replacing:** F000SH0205, 6004AF3000

12 **V**, **B+** M8, **OD** 56.40, **OD/cover** 49.50, **Total length** 143.50, **Height/B+** 30.00, **Width/kl. 50** 45.00, **Coil bolt** M8, **No./terminals** 3

## 333839 Solenoid

**Replacing:** 0331400001

12 **V**, **B+** M8, **OD** 61.00, **Total length** 163.00, **Coil bolt** M8, **No./terminals** 3

## 333842 Solenoid

**Replacing:** 2339303840, 2339303369

**Servicing:** 00010DB98E, F000AL0111, F004A94008, F004A94011

12 **V**, **B+** M8, **OD** 56.40, **Total length** 146.75, **No./terminals** 3



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#Available while stock last, * Program development.

## 333917 Solenoid

**Replacing:** 2339402350, 2339402303, 2339402300

**Servicing:** 0001260001, 0001260004

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.65, **OD/cover** 53.90, **Total length** 172.00, **Height/B+** 20.10, **Width/kl. 50** 13.00, **Coil bolt** M10, **Coil bolt 2** 20.10, **No./terminals** 3

## 333922 Solenoid

**Replacing:** 2339304048, 2339304016

**Servicing:** 0001106014, 0001107024, 0001107058, 0001107060, 0001107061, 0001107090, 0001108203, 0001108210, 0001109047, 0001115035

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.50, **OD/cover** 45.60, **Total length** 131.10, **Height/B+** 13.50, **Coil bolt** M8, **Coil bolt 2** 7.50, **No./terminals** 3

## 333942 Solenoid

**Replacing:** 6033AD0230, 2339303849

**Servicing:** 0001223004, 0001223104

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 56.80, **OD/cover** 50.00, **Total length** 145.20, **Height/B+** 9.50, **Coil bolt** M8, **Coil bolt 2** 5.00, **No./terminals** 3

## 333963 Solenoid

**Replacing:** 2339305061, 2339305009

**Servicing:** 0001108208, 0001108209, 0001108211, 0001108212, 0001108460, 0001108461, 0001108462, 0001108463, 0001109202, 0001109203

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.40, **OD/cover** 45.50, **Total length** 142.30, **Height/B+** 30.00, **Width/kl. 50** 45.00, **Coil bolt** M8

## 333994 Solenoid

**Replacing:** 2339305324, 2339305077, 2339305055, 2339305040

**Servicing:** 0001123012, 0001123013, 0001123014, 0001123015, 0001123017, 0001123018, 0001123019, 0001123020, 0001123021

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 26.00, **OD** 52.25, **OD/cover** 45.50, **Total length** 153.20, **Height/B+** 18.20, **Coil bolt** M8, **Coil bolt 2** 8.55, **No./terminals** 3

**Alternative no.:** 235060 5★

## 333995 Solenoid

**Replacing:** 2339305033

**Servicing:** 0001105205, 0001109205, 0001109300, 0001109301, 0001109302, 0001109303, 0001109324

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.45, **Total length** 129.80, **Width/kl. 50** 8.80, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 237672 5★

## 333996 Solenoid

**Replacing:** 2339305337, 2339305213, 2339305076, 2339305054, 2339305034, 2339305014

12 **V**, **B+** M8, **Kl. 50** 4.70, **OD** 52.35, **OD/cover** 45.90, **Total length** 147.80, **Height/B+** 17.20, **Coil bolt** M8, **Coil bolt 2** 8.20, **No./terminals** 3

**Alternative no.:** 235535 5★

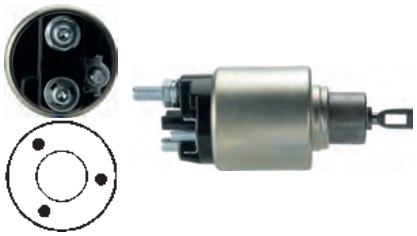
## 333997 Solenoid

**Replacing:** 2339305047, 2339305026, 2339305013

**Servicing:** 0001108222, 0001108223, 0001115048, 0001115074, 0001115075

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.45, **Total length** 128.25, **Width/kl. 50** 10.00, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 236837 5★



## 333998 Solenoid

**Replacing:** 2339305232, 2339305100, 2339305048, 2339305017, 2339305004

**Servicing:** 0001108202, 0001108204, 0001108224, 0001108234, 0001108235, 0001108239, 0001108240, 0001115021, 0001115025

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.40, **OD/cover** 45.55, **Total length** 137.00, **Height/B+** 21.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 234903 5★



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#Available while stock last, * Program development.

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## 333999 Solenoid

**Replacing:** 2339304011

**Servicing:** 0001107063, 0001108176, 0001108183, 0001109026

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 24.00, **OD** 52.20, **OD/cover** 45.60, **Total length** 141.85, **Height/B+** 21.35, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 230115 5★

## 335000 Solenoid

**Replacing:** 2339304055, 2339304038

**Servicing:** 0001106012, 0001106017, 0001106022

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.20, **OD/cover** 45.50, **Total length** 136.70, **Height/B+** 27.70, **Coil bolt** M8, **No./terminals** 3

**Alternative no.:** 231203 5★

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## 335054 Solenoid

**Replacing:** 2339305257

**Servicing:** 0001148009, 0001148010, 0001148029, 0001148030

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 45.90, **Total length** 140.75, **Height/B+** 12.00, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 8.00

NEW PRODUCT
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## 335056 Solenoid

**Replacing:** 2339305124

**Servicing:** 0001138009, 0001138010, 0001139005, 0001139006, 0001139013, 0001139014

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **Total length** 138.55, **Height/B+** 16.05, **Width/kl. 50** 7.60, **Coil bolt** M8, **Coil bolt 2** 4.00, **No./terminals** 3

NEW PRODUCT
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## 335057 Solenoid

**Replacing:** 2339305306

**Servicing:** 0001108466, 0001109315, 0001109421, 0001109422, 0001115110

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.50, **OD/cover** 45.75, **Total length** 145.60, **Height/B+** 17.80, **Coil bolt** M8, **Coil bolt 2** 3.00, **No./terminals** 3

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## 335061 Solenoid

**Replacing:** 2339305335

**Servicing:** 0001179510, 0001179511

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 52.50, **OD/cover** 45.95, **Total length** 154.50, **Height/B+** 18.00, **Coil bolt** M8, **Coil bolt 2** 3.00, **No./terminals** 3

## 335090 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339303867, 2339303844

**Servicing:** 0001109344, 0001109345, 0001109413, 0001109414

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 56.30, **OD/cover** 50.20, **Total length** 139.40, **Height/B+** 14.30, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3

## 335092 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305008

**Servicing:** 0001108236, 0001125025

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **OD/cover** 46.00, **Total length** 139.00, **Height/B+** 12.80, **Width/kl. 50** 9.00, **Coil bolt** M8, **No./terminals** 3

## 335093 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305338, 2339305292, 2339305118, 2339305071, 2339305037

**Servicing:** 0001123024, 0001123025, 0001125521, 0001125522, 0001125607, 0001125608, 0001125609, 0001125610

12 **V**, **B+** M8, **OD** 52.50, **OD/cover** 45.70, **Total length** 155.00, **Height/B+** 18.25, **Coil bolt** M8, **No./terminals** 3

## 335097 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339305329, 2339305211

**Servicing:** 0001177000, 0001177001, 0001177002, 0001177003, 0001177004, 0001177005, 0001177008, 0001177009, 0001177010, 0001177011

12 **V**, **B+** M8, **OD** 52.50, **OD/cover** 46.35, **Total length** 148.50, **Height/B+** 18.00, **Coil bolt** M8, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

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## 335125* Solenoid

**Replacing:** 2339305127

**Servicing:** 0001142001, 0001142002, 0001142003, 0001142004, 0001142005, 0001142006, 0001145001, 0001145002, 0001153007, 0001153008

### 24 V

## 130282 Solenoid

**Replacing:** 9339991018, 0331101019, 0331101004, 0331101002, 0331100012, 0331100011, 0331100002

**Servicing:** 0001402031, 0001402043, 0001402050, 0001402053, 0001402054, 0001402055, 0001402057, 0001402058, 0001402059, 0001402060

24 **V**, **B+** Cable, **OD** 69.30, **Total length** 91.20

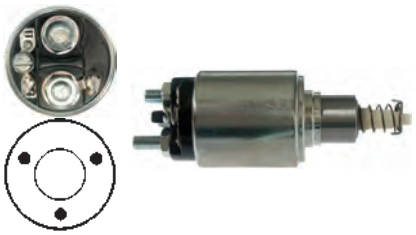
## 130283 Solenoid

**Replacing:** 0331101016, 0331101008, 0331101005, 0331100025, 0331100021, 0331100019, 0331100009

**Servicing:** 0001410019, 0001410022, 0001410037, 0001410038, 0001410049, 0001410050, 0001410068, 0001410069, 0001410075, 0001410077

24 **V**, **B+** Cable, **OD** 85.50, **Total length** 93.65
*Insulated return.*

**Alternative no.:** 333162 5★



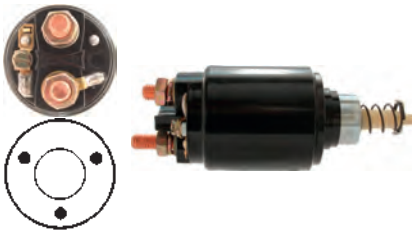
## 130303 Solenoid

**Replacing:** 2339402161, 2339402120, 0331402510, 0331402201, 0331402010

**Servicing:** 0001231003, 0001360022, 0001360037, 0001360052, 0001360056, 0001360065, 0001368024, 0001368028, 0001368055, 0001368062

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M6S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.00, **Height/B+** 23.95, **Width/kl. 30h** 16.75, **Width/kl. 50** 12.82, **Coil bolt** M10, **Coil bolt 2** 18.00, **No./terminals** 3
*Cap: HC-CARGO 133447.*

**Alternative no.:** 333138 5★, 130303Z, 333664

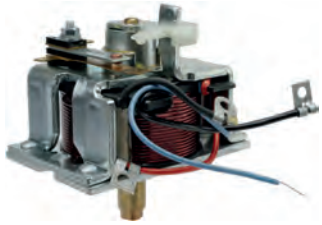


## 130303Z Solenoid

**Replacing:** 2339402161, 2339402120, 0331402510, 0331402201, 0331402010

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M6S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.00, **Height/B+** 23.95, **Width/kl. 30h** 16.75, **Width/kl. 50** 12.82, **Coil bolt** M10, **Coil bolt 2** 18.00, **No./terminals** 3
*Cap: HC-CARGO 133447.*

**Alternative no.:** 130303



## 130304 Solenoid

**Replacing:** 2339450014, 2339450012, 2007022001, 0331450005, 0331450004, 0331450001, 0330105001

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410021, 0001410024, 0001410029, 0001410032, 0001410034, 0001410035, 0001410041

24 **V**, **B+** Cable, **OD** 95.25, **Total length** 93.30

**Alternative no.:** 333155 5★

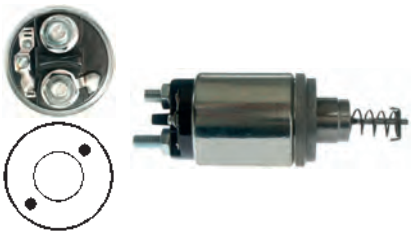
## 130305 Solenoid

**Replacing:** 2339450013, 0331450002

**Servicing:** 0001410019, 0001410022, 0001410024, 0001410037, 0001410038, 0001410049, 0001410050, 0001410068, 0001410069, 0001410075

24 **V**, **B+** Cable, **OD** 94.00, **Total length** 111.30
*Insulated return.*

**Alternative no.:** 333159 5★



## 130477 Solenoid

**Replacing:** 0331402081, 0331401002, 0331400024

**Servicing:** 0001360003, 0001360004, 0001360005, 0001360010, 0001360012, 0001360013, 0001360014, 0001360015, 0001360017, 0001360018

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.80, **OD/cover** 53.25, **Total length** 177.30, **Height/B+** 24.60, **Width/kl. 50** 2.45, **Coil bolt** M10, **Coil bolt 2** 17.40, **No./terminals** 3
*Cap: HC-CARGO 131318.*

## 130939 Solenoid

**Replacing:** 2339402172, 0331402706, 0331402206, 0331402057, 0331402053, 0331402051

**Servicing:** 0001360002, 0001360007, 0001360008, 0001360009, 0001360010, 0001360026, 0001360035, 0001360038, 0001360043, 0001360050

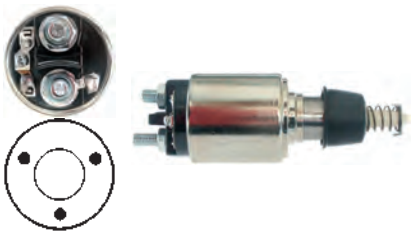
24 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 29.90, **OD** 60.80, **OD/cover** 53.15, **Total length** 165.60, **Height/B+** 23.90, **Width/kl. 50** 2.00, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 333140 5★



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



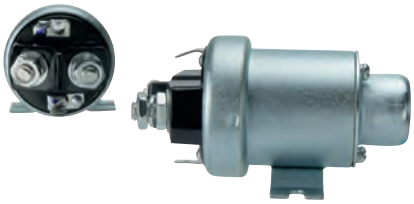
## 131053 Solenoid

**Replacing:** 9330142504, 9330142004, 9330081042, 0331402708, 0331402505, 0331402208, 0331402044, 0331402005

**Servicing:** 0001360023, 0001360036, 0001360040, 0001360049, 0001364103, 0001364108, 0001368018, 0001368030, 0001368031, 0001368041

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.15, **Total length** 182.30, **Height/B+** 23.30, **Width/kl. 50** 2.25, **Coil bolt** M10, **Coil bolt 2** 16.30, **No./terminals** 3
*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*

**Alternative no.:** 333143 5★

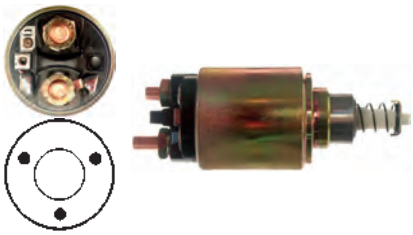


## 131372Z Solenoid

**Replacing:** 0333009013, 0333009002

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 52.01, **OD/cover** 50.22, **Total length** 102.48, **Height/B+** 17.91, **Coil bolt** 4.00, **Seconds** 5, **No./terminals** 4
*Silver contact.*

**Alternative no.:** 333152 5★



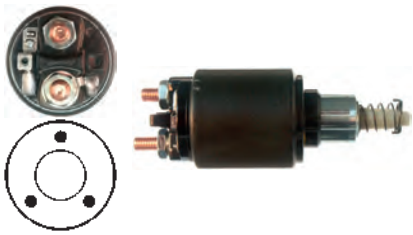
## 132254 Solenoid

**Replacing:** 9330081045, 0331402531, 0331402036, 0331402031

**Servicing:** 0001360027, 0001368016, 0001368019, 0001368020, 0001368021, 0001368037, 0001368038, 0001368056, 0001368059, 0001368063

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.80, **OD** 61.00, **OD/cover** 53.35, **Total length** 161.85, **Height/B+** 21.90, **Width/kl. 50** 3.70, **Coil bolt** M10, **Coil bolt 2** 15.75, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 333151 5★

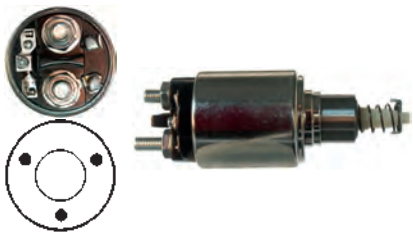


## 132255 Solenoid

**Replacing:** 2339402177, 2339402171

**Servicing:** 0001363111, 9000143601, 9000143602

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 30.10, **OD** 61.40, **OD/cover** 53.10, **Total length** 147.75, **Height/B+** 21.25, **Width/kl. 50** 3.60, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 131318.*

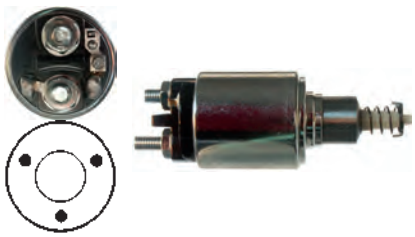


## 132294 Solenoid

**Replacing:** 0331402707, 0331402207, 0331402012

**Servicing:** 0001360039, 0001360044, 0001360048, 0001360054, 0001360057, 0001368003, 0001368008, 0001368011, 0001368015, 0001368023

24 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 30.00, **OD** 60.75, **OD/cover** 53.45, **Total length** 148.00, **Height/B+** 24.00, **Width/kl. 50** 2.80, **Coil bolt** M10, **Coil bolt 2** 17.15, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 132677.*



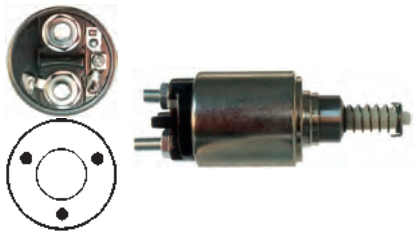
## 132361 Solenoid

**Replacing:** 0331402537, 0331402521, 0331402515, 0331402037, 0331402015

**Servicing:** 0001360012, 0001360014, 0001360016, 0001360024, 0001360035, 0001360041, 0001360045, 0001360058, 0001360060, 0001368001

24 **V**, **B+** M10, **ID/cover** 30.10, **OD** 60.90, **OD/cover** 53.00, **Total length** 171.65, **Height/B+** 24.60, **Width/kl. 50** 2.20, **Coil bolt** M10, **Coil bolt 2** 16.35, **No./terminals** 3
*Cap: HC-CARGO 131317.*

**Alternative no.:** 333167 5★



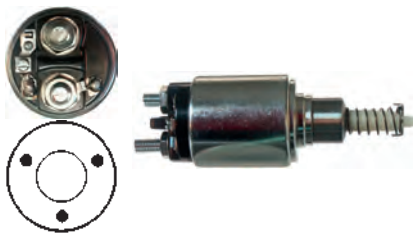
## 132362 Solenoid

**Replacing:** 0331402055, 0331402021

**Servicing:** 0001364102, 0001364200, 0001364203, 0001364206, 0001364300, 0001364301, 0001364400, 0001364402, B001819014, B001819202

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.25, **Total length** 175.90, **Height/B+** 23.35, **Width/kl. 50** 2.55, **Coil bolt** M10, **Coil bolt 2** 17.10, **No./terminals** 3
*Cap: HC-CARGO 131317.*

**Alternative no.:** 333170 5★



## 132363 Solenoid

**Replacing:** 0331402508, 0331402177, 0331402171, 0331402054, 0331402008

**Servicing:** 0001363111, 0001364100, 0001364101, 0001364104, 0001364105, 0001368057, 9000143601, 9000143602, B001813222, B001816384

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.65, **Total length** 178.00, **Height/B+** 26.00, **Width/kl. 50** 5.30, **Coil bolt** M10, **Coil bolt 2** 20.75, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 333169 5★

## 133554 Solenoid

**Replacing:** 0331101009, 0331101006, 0331100016

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410021, 0001410024, 0001410029, 0001410032, 0001410034, 0001410035, 0001410041

24 **V**, **OD** 69.30, **Total length** 91.90

**Alternative no.:** 333154 5★



O.E.M. names and numbers are used for reference purposes only.

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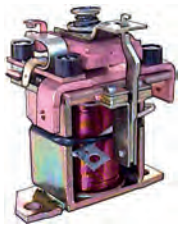
#Available while stock last, * Program development.



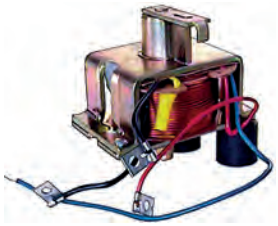
## 135380 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331100023

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019

24 **V**, **OD** 72.75, **Total length** 94.50
*Insulated return.*

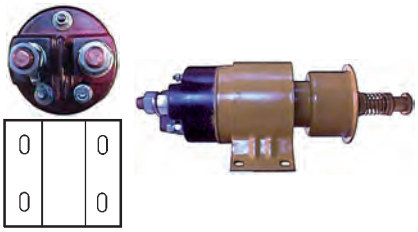


## 135381 Solenoid

**Replacing:** 0331451002, 0331451001

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019

24 **V**, **Total length** 95.40
*Insulated return.*

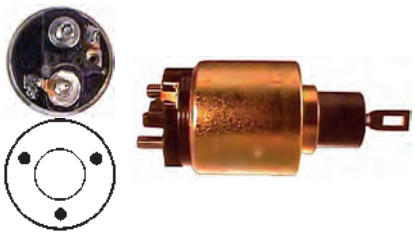


## 136692 Solenoid

**Replacing:** 2007010131, 2007010128, 0331410010, 0331410008, 0331410005, 0331410003, 0331410002

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

24 **V**, **B+** 1/2" UNC, **Kl. 15a** M5, **Kl. 30h** M6, **Kl. 50** M6, **OD** 81.80, **OD/cover** 75.20, **Total length** 277.65, **Height/B+** 30.00, **Width/kl. 15a** 15.00, **Width/kl. 30h** 14.55, **Width/kl. 50** 14.55, **Coil bolt** 1/2" UNC, **Coil bolt 2** 31.20, **No./terminals** 5

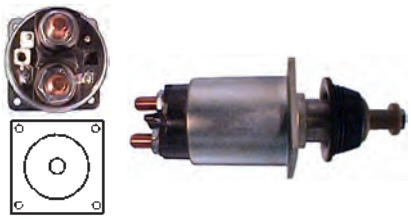


## 138257 Solenoid

**Replacing:** 2339303276, 0331303596, 0331303096

**Servicing:** 0001111001, 0001111005, 0001219001, 0001219007, 0001219010, 0001219013, 0001219014, 9000332401, 9000332402, B001111052

24 **V**, **B+** M8, **ID/cover** 27.25, **OD** 56.30, **OD/cover** 49.45, **Total length** 137.50, **Height/B+** 13.75, **Width/kl. 50** 8.50, **Coil bolt** M8, **Coil bolt 2** 8.45, **No./terminals** 3
*Cap: HC-CARGO 132780.*



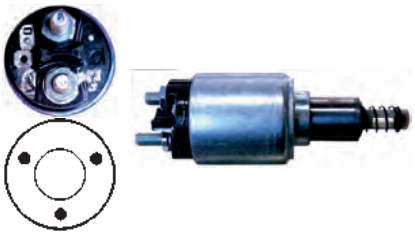
## 138311 Solenoid

**Replacing:** 9330451071, 9330451070, 9330451059, 2339403506, 2339403006

**Servicing:** 0001371004, 0001371006, 0001371008, 9000453068, B001850025

24 **V**, **B+** M12, **ID/cover** 32.10, **OD** 65.90, **OD/cover** 57.90, **Total length** 209.00, **Height/B+** 26.90, **Width/kl. 50** 2.45, **Coil bolt** M12, **Coil bolt 2** 26.90, **No./terminals** 3
*Cap: HC-CARGO 234917. Boot: HC-CARGO 231553.*

**Alternative no.:** 610510, 335228 5★



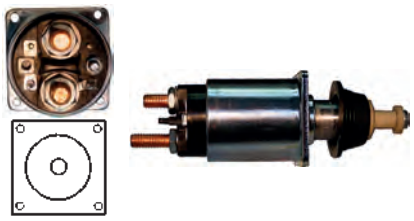
## 139507 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402110

**Servicing:** 0001368085

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.95, **OD** 61.30, **OD/cover** 54.00, **Total length** 173.15, **Height/B+** 25.15, **Width/kl. 50** 3.45, **Coil bolt** M10, **Coil bolt 2** 13.95, **No./terminals** 3



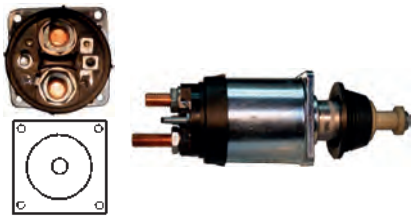
## 139965 Solenoid

**Replacing:** 2339403509, 2339403014, 2339403009

**Servicing:** 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001372002, 0001372003, 0001372007, 0001372008, B001860021

24 **V**, **B+** M12, **Kl. 50** M6, **OD** 65.75, **OD/cover** 57.30, **Total length** 199.00, **Height/B+** 38.00, **Width/kl. 15a** 2.00, **Width/kl. 50** 21.00, **Coil bolt** M12, **Coil bolt 2** 26.00, **No./terminals** 4
*Cap: HC-CARGO 235005. Boot: HC-CARGO 231553.*

**Alternative no.:** 333529 5★



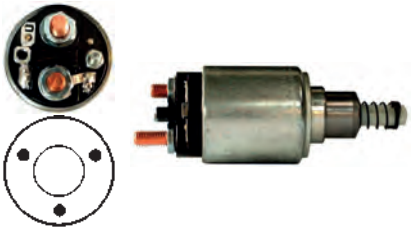
## 139967 Solenoid

**Replacing:** 2339403010, 2339403008, 0331403004, 0331403003

**Servicing:** 0001371001, 0001371019, 0001372001, 0001372005, 0001372006, 0AA137200B, 0AA137200F, 0AA137200G

24 **V**, **B+** M12, **Kl. 50** M6, **ID/cover** 32.00, **OD** 66.00, **OD/cover** 56.30, **Total length** 184.85, **Height/B+** 33.40, **Width/kl. 15a** 2.70, **Width/kl. 50** 18.20, **Coil bolt** M12, **Coil bolt 2** 26.80, **No./terminals** 4
*Plunger boot: HC-CARGO 231553.*

**Alternative no.:** 610289, 333600 5★, 335227



## 230904 Solenoid

**Replacing:** 2339402180, 2339402156, 2339402117

**Servicing:** 0001231002, 0001231032, B001260015

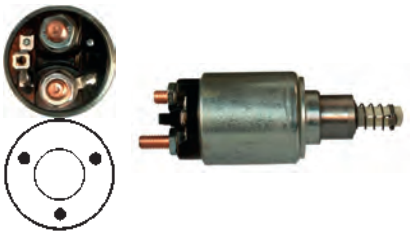
24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M6, **OD** 61.60, **Total length** 148.50, **Height/B+** 17.50, **Width/kl. 15a** 17.50, **Coil bolt** M10, **Coil bolt 2** 12.00, **No./terminals** 4
*Cap: HC-CARGO 230278.*

**Alternative no.:** 333158 5★



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



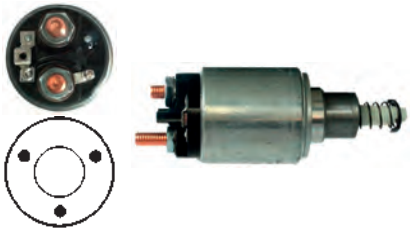
## 231711 Solenoid

**Replacing:** 2339402190, 2339402189, 2339402182, 2339402167, 2339402160, 2339402139, 2339402116

**Servicing:** 0001231001, 0001231007, 0001231008, 0001231009, 0001231010, 0001231011, 0001231017, 0001231019, 0001231029, 0001231030

24 **V**, **B+** 20.60, **Kl. 50** M10/16.40, **ID/cover** 3.50, **OD** 62.00, **OD/cover** 58.80, **Total length** 153.00, **Height/B+** 20.60, **Width/kl. 50** M10/16.40, **No./terminals** 3
*Cap: HC-CARGO 232195.*

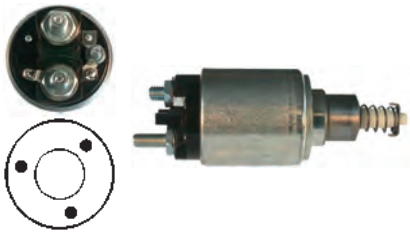
**Alternative no.:** 333165 5★



## 233582 5★ Solenoid

**Manufacturer:** Bosch

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.85, **OD** 61.30, **OD/cover** 53.65, **Total length** 171.90, **Height/B+** 19.60, **Width/kl. 50** 3.35, **Coil bolt** M10, **Coil bolt 2** 14.15, **No./terminals** 3
*Cap: HC-CARGO 232195.*



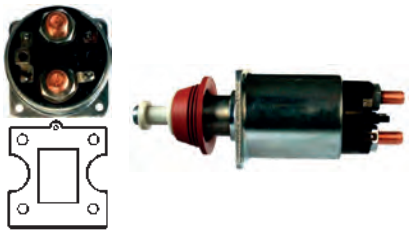
## 233583 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402165, 2339402124

**Servicing:** 0001231013, 0001368313

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 30.00, **OD** 61.45, **OD/cover** 54.00, **Total length** 172.50, **Height/B+** 25.65, **Width/kl. 50** 13.60, **Coil bolt** M10, **Coil bolt 2** 14.65, **No./terminals** 3



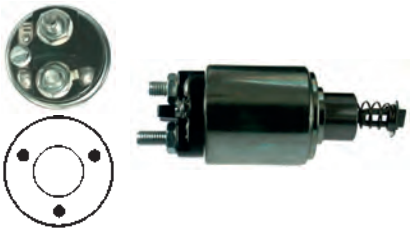
## 233584 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339403007

**Servicing:** 0001371005, 0001371007, 0001371009, 0001371012

24 **V**, **B+** M12, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 32.25, **OD** 66.00, **OD/cover** 57.25, **Total length** 209.75, **Height/B+** 25.20, **Width/kl. 15a** 3.55, **Width/kl. 50** 11.40, **Coil bolt** M12, **Coil bolt 2** 24.70, **No./terminals** 4
*Insulated return.*

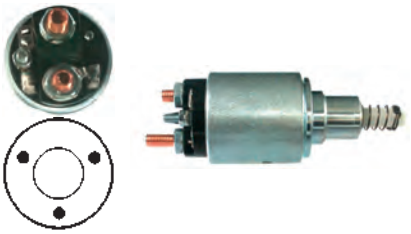


## 233734 Solenoid

**Replacing:** 0331402507, 0331402094, 0331402007

**Servicing:** 0001360002, 0001360007, 0001360008, 0001360009, 0001360013, 0001360018, 0001360020, 0001360026, 0001360029, 0001360031

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.15, **Total length** 165.55, **Height/B+** 24.00, **Width/kl. 50** 2.65, **Coil bolt** M10, **Coil bolt 2** 17.45, **No./terminals** 3
*Cap: HC-CARGO 133447.*



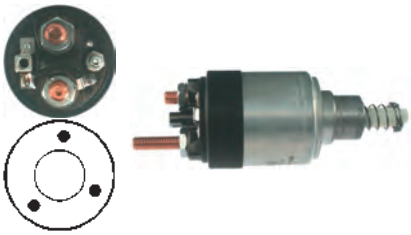
## 233852 Solenoid

**Replacing:** 2339402157, 2339402136

**Servicing:** 0001231004, 0001231012, 0001231014

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 46.00, **OD** 61.60, **OD/cover** 59.00, **Total length** 153.30, **Height/B+** 16.80, **Width/kl. 50** 10.50, **Coil bolt** M10, **Coil bolt 2** 11.70, **No./terminals** 3
*Cap: HC-CARGO 232195.*

**Alternative no.:** 333161 5★



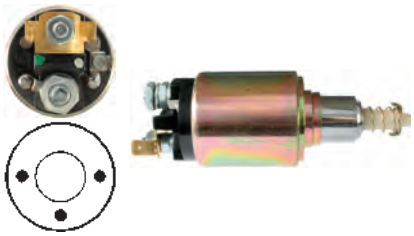
## 234129 Solenoid

**Replacing:** 2339402185, 2339402173, 2339402155

**Servicing:** 0001231016, 0001231046, 0001231146

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 29.95, **OD** 61.40, **OD/cover** 55.85, **Total length** 180.00, **Height/B+** 34.70, **Width/kl. 15a** 3.55, **Width/kl. 50** 21.65, **Coil bolt** M10, **Coil bolt 2** 15.70, **No./terminals** 4

**Alternative no.:** 333164 5★



## 234841 Solenoid

**Replacing:** 0331402026

**Servicing:** 0001360055, 0001368026, 0001368027, 0001368051, B001816076, B001816080, B001816338

24 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.25, **Total length** 168.00, **Height/B+** 21.60, **Width/kl. 50** 12.85, **Coil bolt** M10, **Coil bolt 2** 18.75, **No./terminals** 3

## 235275 Solenoid

**Replacing:** 0331303054

**Servicing:** 0001219007, 0001219010, 0001219013, 0001219014, 0001219015, 0001316005, 9000332401, B001328011

24 **V**, **No./terminals** 4
*Insulated return.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 235807 Solenoid

**Replacing:** 2339402168, 2339402133

**Servicing:** 0001231005

24 **V**, **B+** 18.55, **Kl. 50** M4, **OD** 61.75, **OD/cover** 53.80, **Total length** 170.00, **Height/B+** M10, **Width/kl. 50** 15.00, **Coil bolt** M10, **Coil bolt 2** 16.00, **No./terminals** 3

**Alternative no.:** 333541 5★

## 235881 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402645, 2339402145, 0331402088

**Servicing:** 0001363122, B001813244

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.75, **OD/cover** 53.88, **Total length** 173.80, **Height/B+** 30.00, **Width/kl. 50** 15.00, **No./terminals** 3

## 236081 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339450014

**Servicing:** 0001417075, 0001417076

24 **V**, **Total length** 91.60

*Insulated return.*

## 237753 Solenoid

**Replacing:** 2339402230, 2339402220

**Servicing:** 0001241001, 0001241003, 0001241007, 0001241014, 0001241016, 0001241019, 0001241119, 0001261001, 0001261002, 0001261016

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M6, **OD** 61.50, **Total length** 129.50, **Height/B+** 27.70, **Width/kl. 15a** 45.00, **Width/kl. 50** 15.00, **No./terminals** 4

**Alternative no.:** 333478 5★

## 238847 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402187

**Servicing:** 0001231033, 0001231133

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.55, **OD/cover** 59.19, **Total length** 172.30, **Switch dim.** 2.74, **Height/B+** 19.45, **Coil bolt** M10, **Coil bolt 2** 8.78, **No./terminals** 3

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## 239102 Solenoid

**Replacing:** 239102, 2339402235, 2339402221

**Servicing:** 0001330008

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M6, **OD** 61.50, **OD/cover** 53.90, **Total length** 200.00, **Height/B+** 31.00, **Width/kl. 15a** 16.50, **Coil bolt** M10, **Coil bolt 2** 19.90, **No./terminals** 4

*Terminal 15a is a dummy. Only to be used with a safety switch.*

**Alternative no.:** 333485 5★

## 330254 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402233, 2339402225

**Servicing:** 0001241006, 0001241015, 0001241020, 0001241023, 0001261011, 0001261014

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.65, **OD/cover** 59.24, **Total length** 208.30, **Switch dim.** 4.06, **Height/B+** 30.00, **Coil bolt** M10, **Coil bolt 2** 20.34, **No./terminals** 3

**Alternative no.:** 335069

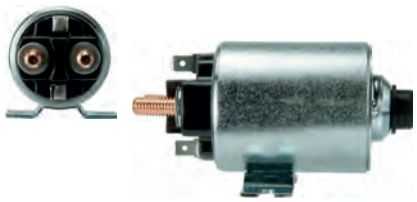
## 330795 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402196

**Servicing:** 0001231041

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.80, **Total length** 170.00, **Height/B+** 20.06, **Width/kl. 50** 10.04, **Coil bolt** M10, **Coil bolt 2** 9.28, **No./terminals** 3



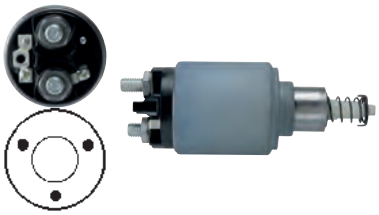
## 333017 Solenoid

24 **V**, 100 **Amp**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 52.07, **Total length** 109.40, **Height/B+** 15.00, **Width/kl. 15a** 30.00, **No./terminals** 4



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 333138 5★ Solenoid

**Manufacturer:** Bosch

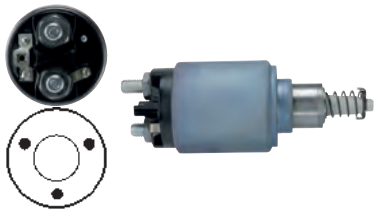
**Replacing:** 2339402161, 2339402120, 0331402510, 0331402201, 0331402010

**Servicing:** 0001360022, 0001360052, 0001360065, 0001362027, 0001366014, 0001368035, 0001368300, 0001368309, 9000083065

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M6S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.00, **Height/B+** 23.95, **Width/kl. 30h** 16.75, **Width/kl. 50** 12.82, **Coil bolt** M10, **Coil bolt 2** 18.00, **No./terminals** 3

*Cap: HC-CARGO 133447.*

**Alternative no.:** 130303, 333664



## 333140 5★ Solenoid

**Manufacturer:** Bosch

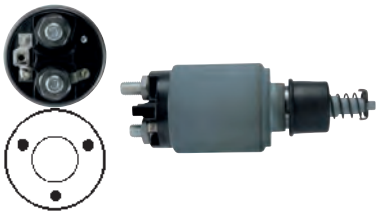
**Replacing:** 0331402706, 0331402206, 0331402057, 0331402053, 0331402051

**Servicing:** 0001360026, 0001360035, 0001360038, 0001360043, 0001360050, 0001360058, 0001360061, 0001360063, 0001363101, 0001363111

24 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 29.90, **OD** 60.80, **OD/cover** 53.15, **Total length** 165.60, **Height/B+** 23.90, **Width/kl. 50** 2.00, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131318.*

**Alternative no.:** 130939



## 333143 5★ Solenoid

**Manufacturer:** Bosch

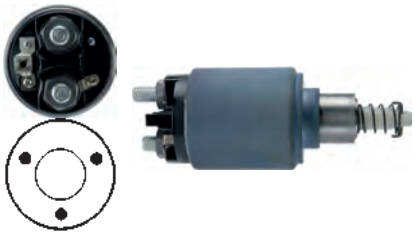
**Replacing:** 9330142504, 9330142004, 9330081042, 0331402708, 0331402505, 0331402208, 0331402044, 0331402005

**Servicing:** 0001360023, 0001368018, 0001368030, 0001368081, 0001368310, 9000143501

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.15, **Total length** 182.30, **Height/B+** 23.30, **Width/kl. 50** 2.25, **Coil bolt** M10, **Coil bolt 2** 16.30, **No./terminals** 3

*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*

**Alternative no.:** 131053



## 333151 5★ Solenoid

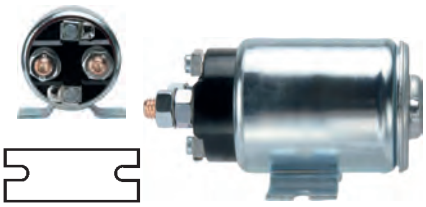
**Manufacturer:** Bosch

**Replacing:** 9330081045, 0331402531, 0331402036, 0331402031

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.80, **OD** 61.00, **OD/cover** 53.35, **Total length** 161.85, **Height/B+** 21.90, **Width/kl. 50** 3.70, **Coil bolt** M10, **Coil bolt 2** 15.75, **No./terminals** 3

*Cap: HC-CARGO 131318.*

**Alternative no.:** 132254



## 333152 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0333009013, 0333009002, 0333006012

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.50, **OD/cover** 43.55, **Total length** 100.55, **Height/B+** 17.85, **Coil bolt** M8, **Coil bolt 2** 17.85, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131372

## 333154 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331101009, 0331100016

**Servicing:** 0001410044, 0001410046, 0001410053, 0001410063, 0001410065, 0001410067, 0001410098, 0001410111, 0001410115, 0001410116

24 **V**, **OD** 69.30, **Total length** 91.90

**Alternative no.:** 133554

## 333155 5★ Solenoid

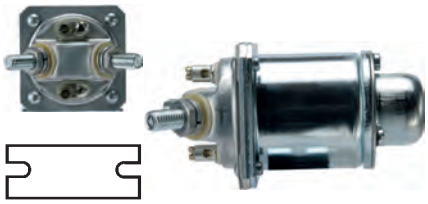
**Manufacturer:** Bosch

**Replacing:** 2339450020, 2339450012, 2007022001, 0331450005, 0331450004, 0331450001, 0330105001

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410022, 0001410024, 0001410034, 0001410041, 0001410045, 0001410046, 0001410053

24 **V**, **B+** Cable, **OD** 95.25, **Total length** 93.30

**Alternative no.:** 130304



## 333156 5★ Solenoid

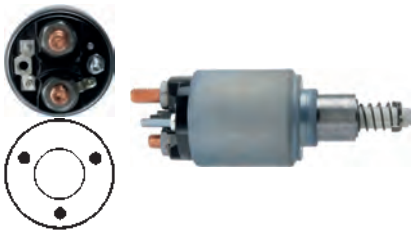
**Manufacturer:** Bosch

**Replacing:** 0333006006, 0333006002

24 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **OD** 51.70, **OD/cover** 43.45, **Total length** 99.60, **Height/B+** 17.35, **Coil bolt** M8, **Coil bolt 2** 17.35, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131371



## 333158 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402180, 2339402156, 2339402117

**Servicing:** 0001410037

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M6, **OD** 61.60, **Total length** 148.50, **Height/B+** 17.50, **Width/kl. 15a** 17.50, **Coil bolt** M10, **Coil bolt 2** 12.00, **No./terminals** 4

*Cap: HC-CARGO 230278.*

**Alternative no.:** 230904



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#Available while stock last, * Program development.

## 333159 5★ Solenoid

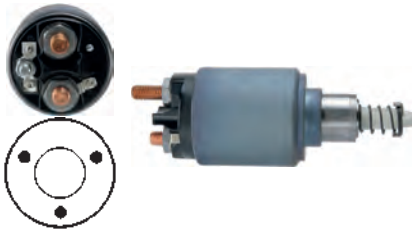
**Manufacturer:** Bosch

**Replacing:** 2339450013, 0331450002

**Servicing:** 0001410098, 0001411005, 0001411021, 0001417061, 0001417076

24 **V**, **B+** Cable, **OD** 94.00, **Total length** 111.30
*Insulated return.*

**Alternative no.:** 130305



## 333161 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402157, 2339402136

**Servicing:** 0001231012, 0001231014

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 46.00, **OD** 61.60, **OD/cover** 59.00, **Total length** 153.30, **Height/B+** 16.80, **Width/kl. 50** 10.50, **Coil bolt** M10, **Coil bolt 2** 11.70, **No./terminals** 3
*Cap: HC-CARGO 232195.*

**Alternative no.:** 233852

## 333162 5★ Solenoid

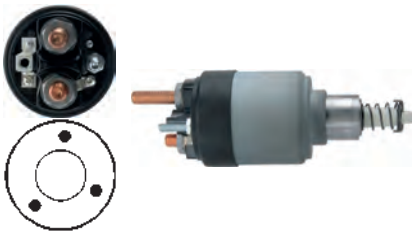
**Manufacturer:** Bosch

**Replacing:** 2339101051, 0331101008, 0331101005, 0331100025, 0331100021, 0331100019, 0331100009

**Servicing:** 0001410024, 0001410037, 0001410068, 0001410088, 0001411009, 0001411013, 0001414011, 0001416028, 0001416044, 0001417043

24 **V**, **B+** Cable, **OD** 85.50, **Total length** 93.65
*Insulated return.*

**Alternative no.:** 130283



## 333164 5★ Solenoid

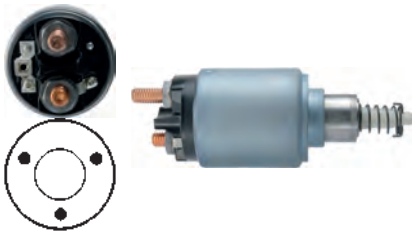
**Manufacturer:** Bosch

**Replacing:** 2339402185, 2339402173, 2339402155

**Servicing:** 0001231016

24 **V**, **B+** M10, **Kl. 50** M6, **ID/cover** 29.95, **OD** 61.40, **OD/cover** 55.85, **Total length** 180.00, **Height/B+** 34.70, **Width/kl. 15a** 3.55, **Width/kl. 50** 21.65, **Coil bolt** M10, **Coil bolt 2** 15.70, **No./terminals** 4

**Alternative no.:** 234129



## 333165 5★ Solenoid

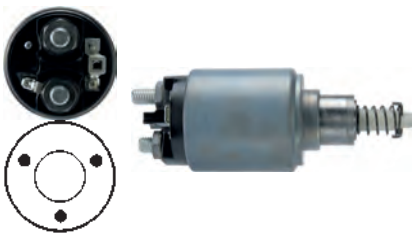
**Manufacturer:** Bosch

**Replacing:** 2339402189, 2339402182, 2339402167, 2339402162, 2339402160, 2339402139, 2339402116

**Servicing:** 0001231008, 0001231016, 0001231017, 0001231019, 0001231029, 0001231030, 0001231045

24 **V**, **B+** 20.60, **Kl. 50** M10/16.40, **ID/cover** 3.50, **OD** 62.00, **OD/cover** 58.80, **Total length** 153.00, **Height/B+** 20.60, **Width/kl. 50** M10/16.40, **No./terminals** 3
*Cap: HC-CARGO 232195.*

**Alternative no.:** 231711



## 333167 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402537, 0331402521, 0331402515, 0331402037, 0331402015

**Servicing:** 0001368020

24 **V**, **B+** M10, **ID/cover** 30.10, **OD** 61.20, **OD/cover** 53.00, **Total length** 171.65, **Height/B+** 24.60, **Width/kl. 50** 2.20, **Coil bolt** M10, **Coil bolt 2** 16.35, **No./terminals** 3
*Cap: HC-CARGO 131317.*

**Alternative no.:** 132361

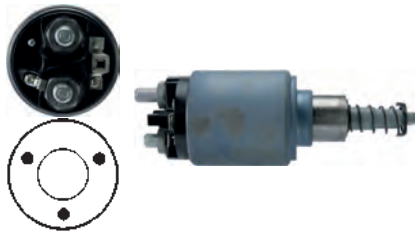
## 333169 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0331402508, 0331402177, 0331402171, 0331402054, 0331402008

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.65, **Total length** 178.00, **Height/B+** 26.00, **Width/kl. 30h** 16.45, **Width/kl. 50** 5.30, **Coil bolt** M10, **Coil bolt 2** 20.75, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 132363



## 333170 5★ Solenoid

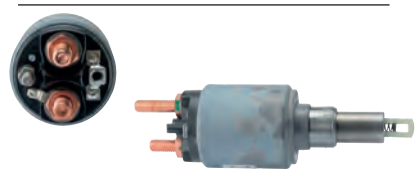
**Manufacturer:** Bosch

**Replacing:** 0331402055, 0331402021

**Servicing:** 0001364104, 0001364200, 0001364203, 0001364206, 0001364301, 0001364400, 0001364402

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.25, **Total length** 175.90, **Height/B+** 23.35, **Width/kl. 30h** 16.45, **Width/kl. 50** 2.55, **Coil bolt** M10, **Coil bolt 2** 17.10, **No./terminals** 3
*Cap: HC-CARGO 131317.*

**Alternative no.:** 132362



## 333391 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402362, 2339402302

**Servicing:** 0001261003, 0001261004, 0001261005, 0001261006, 0001261025, 0001261026, 0001261027, 0001261028

24 **V**, **B+** M10, **Kl. 15a** M6, **OD** 61.60, **OD/cover** 53.75, **Total length** 200.30, **No./terminals** 4



All measurements are in mm, unless else stated.
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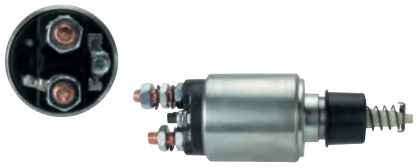
## 333392* Solenoid

**Replacing:** 2339402368, 2339402311
**Servicing:** 0001261007, 0001261008, 0001261012, 0001261013, 0001261023, 0001261041, 0001261044, 0001261045, 0001261069
24 **V**

## 333393 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402195
**Servicing:** 0001231040
24 **V**, **B+** M10, **OD** 61.50, **OD/cover** 53.87, **Total length** 189.50, **Height/B+** 35.05, **Coil bolt** M10, **No./terminals** 3



## 333394 Solenoid

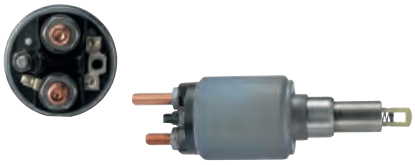
**Replacing:** 2339402193
**Servicing:** 0001231036
24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.50, **OD/cover** 53.85, **Total length** 191.00, **Coil bolt** M10, **No./terminals** 3

## 333478 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402230, 2339402220
**Servicing:** 0001241001
24 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.50, **OD/cover** 54.00, **Total length** 181.50, **Height/B+** 30.70, **No./terminals** 4
**Alternative no.:** 237753

## 333484 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 0333009005
24 **V**, 150 **Amp**, **B+** M8, **OD** 49.50, **OD/cover** 42.20, **Total length** 101.30, **Coil bolt** M8, **No./terminals** 4
**Alternative no.:** 333623

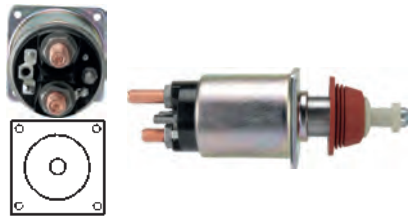


## 333485 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402235, 2339402221
**Servicing:** 0001330008
24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M6, **OD** 61.50, **OD/cover** 54.00, **Total length** 119.30, **Switch dim.** 7.80, **Height/B+** 31.00, **Width/kl. 15a** 15.60, **Coil bolt** M10, **No./terminals** 4
**Alternative no.:** 239102

## 333486 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402186
**Servicing:** 0001231034, 0001231035
24 **V**, **B+** M8, **Kl. 50** M6, **OD** 61.50, **OD/cover** 54.00, **Total length** 118.20, **Switch dim.** 19.60, **Height/B+** 30.00, **Coil bolt** M8, **No./terminals** 3
**Alternative no.:** 333617

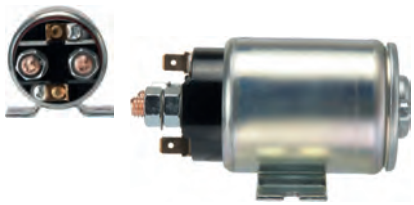


## 333529 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339403509, 2339403014, 2339403009
**Servicing:** 0001371010, 0001371013, 0001372002, 0001372003
24 **V**, **B+** M12, **Kl. 15a** M6, **Kl. 50** M6, **OD** 66.20, **OD/cover** 57.10, **Total length** 135.30, **Switch dim.** 17.80, **Height/B+** 36.80, **Width/kl. 50** 20.00, **Coil bolt** M12, **No./terminals** 4
*Cap: HC-CARGO 235005. Boot: HC-CARGO 231553.*
**Alternative no.:** 139965

## 333530 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 2339402222
**Servicing:** 0001241005, 0001241009, 0001241021, 0001330005
24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.50, **OD/cover** 53.50, **Total length** 119.20, **Switch dim.** 7.80, **Height/B+** 36.90, **Coil bolt** M10, **No./terminals** 3
**Alternative no.:** 333626



## 333531 5★ Solenoid

**Manufacturer:** Bosch
**Replacing:** 0333009011
24 **V**, 150 **Amp**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 50.00, **Total length** 100.00, **Height/B+** 15.00, **Width/kl. 15a** 60.00, **Width/kl. 50** 30.00, **No./terminals** 4
**Alternative no.:** 333622



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

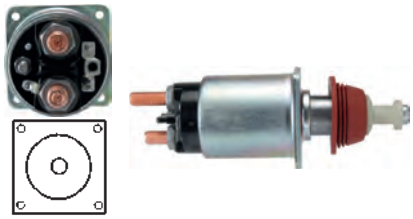
## 333541 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402168, 2339402133

24 **V**, **B+** M10, **Kl. 50** M4, **OD** 61.55, **OD/cover** 53.80, **Total length** 170.00, **No./terminals** 3

**Alternative no.:** 235807



## 333600 5★ Solenoid

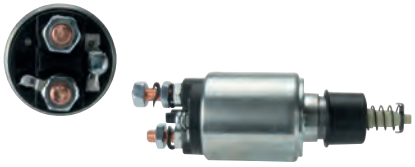
**Manufacturer:** Bosch

**Replacing:** 2339403010, 2339403008, 0331403004, 0331403003

**Servicing:** 0001371019, 0001372001, 0001372005

24 **V**, **B+** M12, **Kl. 50** M6, **OD** 66.20, **OD/cover** 59.90, **Total length** 135.70, **Height/B+** 36.90, **Coil bolt** M12, **No./terminals** 4

**Alternative no.:** 139967



## 333617 Solenoid

**Replacing:** 2339402186

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.50, **OD/cover** 54.00, **Total length** 192.00, **Height/B+** 30.00, **Coil bolt** M10, **No./terminals** 3

**Alternative no.:** 333486 5★

## 333664 Solenoid

**Replacing:** 2339402161, 2339402120, 0331402510, 0331402201, 0331402010

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 60.00, **OD/cover** 53.30, **Total length** 173.00, **Height/B+** 18.40, **No./terminals** 3

**Alternative no.:** 130303, 130303Z, 333138 5★

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## 333765 Solenoid

**Replacing:** 2339402261

**Servicing:** 0001241128

24 **V**, **B+** M12, **Kl. 50** M6, **OD** 61.50, **OD/cover** 53.80, **Total length** 201.50, **Height/B+** 29.85, **Width/kl. 50** 7.85, **Coil bolt** M10, **Coil bolt 2** 9.50, **No./terminals** 3

**NEW PRODUCT**
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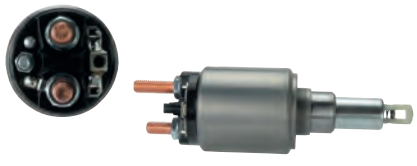
## 333977 Solenoid

**Replacing:** 2339402174

**Servicing:** 0001231026, 0001231027

24 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 61.50, **OD/cover** 53.85, **Total length** 171.50, **Height/B+** 20.00, **Coil bolt** M10, **Coil bolt 2** 20.00, **No./terminals** 3



## 335053 Solenoid

**Replacing:** 0399D55002, 0339D55002

**Servicing:** 0001241008, 0001261018, 0001261032, 0001261034, 0001261037, 0001261050

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.50, **OD/cover** 53.50, **Total length** 199.00, **Height/B+** 19.05, **Coil bolt** M10, **No./terminals** 4

## 335069 Solenoid

**Replacing:** 2339402233, 2339402225

**Servicing:** 0001241015

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.65, **OD/cover** 53.25, **Total length** 208.30, **Height/B+** 28.34, **Coil bolt** M10, **Coil bolt 2** 17.75, **No./terminals** 3

**Alternative no.:** 330254 5★

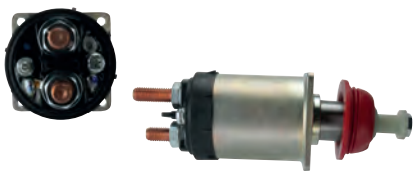
## 335098 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 2339402401, 2339402400

**Servicing:** 0001340501, 0001340502, 0001340503, 0001340504, 0001340505, 000134BB01, 000134BH01, 000134F203, 000134F703, 000134F801

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.70, **OD/cover** 54.00, **Total length** 192.00, **Height/B+** 25.60, **Coil bolt** M10, **Coil bolt 2** 16.00, **No./terminals** 5



## 335227 Solenoid

**Replacing:** 2339403010, 2339403008, 0331403004, 0331403003

**Servicing:** 0001372001, 0001372005, 0001372006

24 **V**, **B+** M12, **Kl. 50** M6, **ID/cover** 32.00, **OD** 66.00, **OD/cover** 56.30, **Total length** 184.85, **Height/B+** 33.40, **Width/kl. 15a** 2.70, **Width/kl. 50** 18.20, **Coil bolt** M12, **Coil bolt 2** 26.80

**Alternative no.:** 139967, 610289



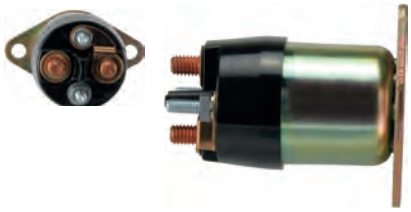
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

**335228** 5★ Solenoid
**Manufacturer:** Bosch
**Replacing:** 9330451071, 9330451070, 9330451059, 2339403506, 2339403006
**Servicing:** 0001371004, 0001371006, 0001371008
24 **V**
**Alternative no.:** 610510, 138311

## Safety Switches

### 12 V



**333314** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 6033AD6160
24 **V**, **OD** 32.85, **OD/cover** 36.30, **Total length** 66.00, **No./terminals** 4

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**333794*** Safety Switch
**Replacing:** 6033AD5190
**Servicing:** 0001241005, 0001241006

### 24 V

**230386** Safety Switch
**Replacing:** 1337210728, 1337210726
**Servicing:** 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001371019, 0001372001, 0001372002, 0001372003, 0001372006
24 **V**, **OD** 33.65, **OD/cover** 31.45, **Total length** 51.80
**Alternative no.:** 333281 5★

**231267** Safety Switch
**Replacing:** 6033AD0440, 6033AD0086, 1337210725
**Servicing:** 0001231002, 0001231016, 0001231032, 0001231046, 0001231146, B001260015
24 **V**, **OD** 33.75
**Alternative no.:** 333282 5★

**238849** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 6033AD3216
**Servicing:** 0001231033, 0001231133, 0001263016, 0001263049, 0001263050
24 **V**, **OD** 33.00, **Total length** 65.15, **No./terminals** 4
**Alternative no.:** 335100

**239094** 5★ Safety Switch
**Manufacturer:** Bosch
**Replacing:** 6033AD6153, 6033AD5255, 6033AD5206, 6033AD5138, 1337210791, 1337210743
**Servicing:** 0001241001, 0001241003, 0001241007, 0001241014, 0001241019, 0001241119, 0001261001, 0001261002, 0001261003, 0001261004
24 **V**, **OD** 33.00, **Total length** 65.00, **No./terminals** 4
**Alternative no.:** 333830

**330256** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 6033AD5256, 6033AD5254, 333238, 0333006026
**Servicing:** 0001231036, 0001231040, 0001241015, 0001241020, 0001261007, 0001261008, 0001261011, 0001261014, 0001261021
24 **V**, **Kl. 50** Plug, **OD** 33.20, **OD/cover** 36.20, **Total length** 74.70, **No./terminals** 2

**331586** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 1337210731
**Servicing:** 0001372005
24 **V**, **OD** 33.80, **OD/cover** 31.50, **Total length** 52.50, **No./terminals** 2

**333281** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 1337210728, 1337210726
**Servicing:** 0001372002, 0001372003, 0001372007, 0001372008, B001860021, B001860023
24 **V**, **OD** 33.65, **OD/cover** 31.45, **Total length** 51.80
**Alternative no.:** 230386

**333282** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 6033AD0440, 6033AD0086
24 **V**, **OD** 33.75, **Total length** 52.00
**Alternative no.:** 231267



O.E.M. names and numbers are used for reference purposes only.

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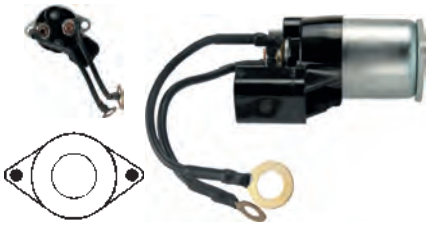
#Available while stock last, * Program development.



**333343** Safety Switch

**Replacing:** 6033AD4139

**Servicing:** 0001231034, 0001231035

24 **V**, **OD** 33.30, **OD/cover** 36.30, **Total length** 75.60, **No./terminals** 3

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**333578** 5★ Safety Switch

**Manufacturer:** Bosch

**Replacing:** 6033AD6084, 0333006025

**Servicing:** 0001340501, 0001340502, 0001340503, 0001340504, 0001340505, 000134BB01, 000134BH01, 000134F203, 000134F703, 000134F801

24 **V**, **OD** 33.00, **OD/cover** 36.20, **Total length** 65.00, **No./terminals** 4

**Alternative no.:** 333624

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**333624*** Safety Switch

**Replacing:** 6033AD6084, 0333006025

24 **V**, **OD** 33.00, **OD/cover** 36.20, **Total length** 65.00, **No./terminals** 4

**Alternative no.:** 333578 5★

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**333830** Safety Switch

**Replacing:** 6033AD6153, 6033AD5255, 6033AD5206, 6033AD5138

**Servicing:** 0001241014, 0001241019

24 **V**, **OD** 33.00, **Total length** 65.00, **No./terminals** 4

**Alternative no.:** 239094 5★

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## Solenoid Parts

### Solenoid Caps

Pkg. 5

**130479** Solenoid Cap

**Replacing:** 1330516050, 1330516037

**Servicing:** 0001155009, 0001155010, 0001155016, 0001155017, 0001157001, 0001157002, 0001157003, 0001157004, 0001157009, 0001157010

**OD** 50.90, **No./terminals** 4

*HC-CARGO 130294, 130471, 131790, 131790, 131794, 133636, 136544, 234857.*

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Pkg. 5

**131315** Solenoid Cap

**Servicing:** 0001107005, 0001107006, 0001107009, 0001107012, 0001107013, 0001108011, 0001108024, 0001108031, 0001108043, 0001108053

**OD** 54.60, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 131143, 131308, 131793, 132260, 132263, 132265, 134378, 135583, 139017, 139018, 232186, 232419.*

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**131316** Solenoid Cap

**Servicing:** 0001360023, 0331401001, 0331401002, 0331401003, 0331401011, 0331401014, 0331401017, 0331401026, 0331401030

**OD** 54.65, **No./terminals** 3, **Bracket type** Crimp

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Pkg. 5

**131317** Solenoid Cap

**Servicing:** 0001358020, 0001358046, 0001358047, 0001358049, 0001358200, 0001358201, 0001358202, 0001359049, 0001359073, 0001359106

**OD** 58.90, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 130296, 130302, 132252, 132253, 132361, 132362, 133398, 137232.*

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Pkg. 5

**131318** Solenoid Cap

**Replacing:** 1330516712

**Servicing:** 0001157008, 0001231007, 0001231008, 0001231009, 0001231014, 0001231017, 0001231029, 0001231045, 0001358051, 0001359008

**OD** 59.00, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 130297, 130299, 130300, 130301, 130477, 130806, 130939, 131053, 131141, 132254, 132255, 132363, 137368.*

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Pkg. 5

**131319** Solenoid Cap

**Servicing:** 0001359082, 0001359110, 0001362060, 0001362067, 0001367006, 0001367055, 0001367056, 0001369023, 2339402113, 2339402115

**OD** 59.00, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 131142, 231801, 234859.*

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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 131334 Solenoid Cap

**Replacing:** 1330516023
**Servicing:** 0001108154
**OD** 51.00, **No./terminals** 4
*HC-CARGO 130293, 135878.*

## 131335 Solenoid Cap

**Replacing:** 1330516034, 1330516033, 1330516032
**Servicing:** 0001108031, 0001157021, 0001207001, 0001207005, 0001207016, 0001207017, 0001207018, 0001207019, 0001208032, 0001208233
**OD** 51.15, **No./terminals** 3
*HC-CARGO 130468, 134823, 135871, 136025.*

Pkg. 5

## 131337 Solenoid Cap

**Replacing:** 1330516062
**Servicing:** 0001106001, 0001106002, 0001107003, 0001107004, 0001107007, 0001107008, 0001108001, 0001108002, 0001108005, 0001108006
**OD** 54.15, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 130474, 131586, 132828.*

Pkg. 5

## 131338 Solenoid Cap

**Replacing:** 1330516072
**Servicing:** 0001108021, 0001108098, 0001108122, 0001110113, 0001208200, 0001208201, 0001208208, 0001208216, 0001208217, 0001211218
**OD** 53.90, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 130476.*

## 131345 Solenoid Cap

**Servicing:** 0001108080, 0001157022, 0001208019, 0001208020, 0001208027, 0001208028, 0001208030, 0001208031, 0001208040, 0001208041
**OD** 50.85, **No./terminals** 4
*HC-CARGO 130470, 132890.*

Pkg. 5

## 131847 Solenoid Cap

**Servicing:** 0001108004, 0001108019, 0001108033, 0001208172, 0001208219, 0001208220, 0001208223, 0001208232, 0001208409, 0001208423
**OD** 54.20, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 130475.*

Pkg. 5

## 132279 Solenoid Cap

**Servicing:** 0001108025, 0001108030, 0001108038, 0001108061, 0001108062, 0001108088, 0001108089, 0001108090, 0001108091, 0001108092
**OD** 54.00, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 131791.*

## 132300 Solenoid Cap

**Servicing:** 0001108040, 0001108057, 0001108071, 0001108082, 0001108111, 0001108152, 0001112020, 0001114008, 0001114017, 0001208520
**OD** 54.40, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132299, 133419.*

## 132677 Solenoid Cap

**Servicing:** 0331402012
**OD** 59.00, **No./terminals** 4,
**Bracket type** Crimp

## 132723# Solenoid Cap

**Servicing:** 9339331008
**OD** 49.15, **No./terminals** 4
*HC-CARGO 132272.*

Pkg. 5

## 132778 Solenoid Cap

**Servicing:** 0001208009, 0001208026, 0001208056, 0001208058, 0001208060, 0001208061, 0001208405, 0001211204, 0001211205, 0001211209
**OD** 51.00, **No./terminals** 4
*HC-CARGO 133141, 133642, 134275, 135358, 230322.*

Pkg. 5

## 132779 Solenoid Cap

**Servicing:** 0001108023, 0001108051, 0001108075, 0001108143, 0001108180, 0001108182, 0001110003, 0001110026, 0001110089, 0001110095
**OD** 54.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133422, 135526, 136369, 136717, 136779.*



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

Pkg. 5

## 132780 Solenoid Cap

**Servicing:** 0001108003, 0001108032, 0001108046, 0001108066, 0001108068, 0001108069, 0001108103, 0001108104, 0001108124, 0001108134

**OD** 54.30, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 132258, 133644, 135065, 138257, 138782, 139068, 234568.*

Pkg. 5

## 132781 Solenoid Cap

**Servicing:** 0001311105, 0001311106, 0001311124, 0331302056, 0331302084, 0331302094

**OD** 50.00, **No./terminals** 4
*HC-CARGO 133643, 234858.*

Pkg. 5

## 133148 Solenoid Cap

**Replacing:** 1330516225

**Servicing:** 0001110009, 0001110010, 0001208425, 0001208426, 0001208428, 0001208429, 0001211251, 0001211252, 0001211253, 0001211254

**OD** 54.35, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133421, 134376.*

## 133157 Solenoid Cap

**Servicing:** 0331401004, 0331401007, 0331401022, 0331401025, 0331401029, 0331401033

**OD** 55.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133096.*

## 133159 Solenoid Cap

**Servicing:** 0001362005, 0001362006, 0001362044, 0001362045, 0001362081, 0001362602, 0001362603, 0001362606, 0001362607, 0331401028

**OD** 59.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 131189.*

## 133202 Solenoid Cap

**Replacing:** 1330516209

**Servicing:** 0331303023, 0331303034, 0331303045

**OD** 54.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132261, 132827.*

Pkg. 5

## 133447 Solenoid Cap

**Servicing:** 0001231003, 0001231004, 0001359084, 0001359111, 0001360022, 0001360037, 0001360052, 0001360065, 0001367010, 0001367034

**OD** 58.80, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 130303, 131042, 233734.*

Pkg. 5

## 133777 Solenoid Cap

**Servicing:** 0331302001, 0331302002, 0331302006, 0331302009, 0331302020, 0331302060, 0331302072

**OD** 51.10, **No./terminals** 3
*HC-CARGO 133428.*

## 134383 Solenoid Cap

**Servicing:** 0331401008, 0331401009, 0331401016

**OD** 55.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137443.*

Pkg. 5

## 134825 Solenoid Cap

**Replacing:** 1330516306

**Servicing:** 0001107020, 0001107021, 0001107022, 0001107023, 0001107025, 0001107026, 0001107052, 0001107053, 0001107094, 0001107095

**OD** 54.30, **No./terminals** 3,
**Bracket type** Crimp

Pkg. 5

## 134844 Solenoid Cap

**Servicing:** 0001359119, 0001362016, 0001362041, 0001362071, 0001366001, 0001367005, 0001367049

**OD** 59.30, **No./terminals** 3,
**Bracket type** Crimp

## 136108 Solenoid Cap

**Servicing:** 0001110042, 0001110071, 0001110072, 0001110110, 0001218171, 0331303117

**OD** 54.60, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 136036, 136615.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 137349 Solenoid Cap

**Servicing:** 0001106011, 0001106016, 0001107016, 0001107041, 0001107043, 0001107059, 0001107062, 0001107082, 0001107087, 0001107407

**OD** 50.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138763, 138877.*

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## 137706 Solenoid Cap

**Servicing:** 0001108052, 0001108056, 0001108154, 0331303106, 0331303107

**OD** 54.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 136370, 137693.*

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## 137815 Solenoid Cap

**Servicing:** 0001108113, 0001108114, 0001108174, 0001108175, 0001108220, 0001108221, 0001109021, 0001109022, 0001109066, 0001109067

**OD** 54.35, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 136852, 233716.*

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## 137876 Solenoid Cap

**Servicing:** 0331303020, 0331303108, 0331303520

**OD** 54.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137826.*

---

Pkg. 5

## 138003 Solenoid Cap

**Servicing:** 0001107010, 0001107034, 0001107038, 0001107056, 0001107092, 0001107093, 0001107100, 0001107101, 0001107108, 0001108123

**OD** 54.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137175, 137266, 137613, 137951.*

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Pkg. 5

## 138004 Solenoid Cap

**Servicing:** 0001107011, 0001107014, 0001107015, 0001107027, 0001107028, 0001107031, 0001107039, 0001107044, 0001107049, 0001107066

**OD** 54.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133424,137696, 139498,139549, 230323, 230324, 230431, 230847.*

---

Pkg. 5

## 138006 Solenoid Cap

**Servicing:** 0001107033, 0001108070, 0001108105, 0001108129, 0001108135, 0331303137, 2339303208

**OD** 54.35, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138005.*

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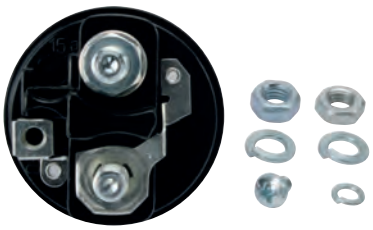
Pkg. 5



## 138926 Solenoid Cap

**Servicing:** 0001208209, 0001208227, 0331303022, 0331303522, 9000142001

**OD** 54.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139212.*

---

Pkg. 5

## 139213 Solenoid Cap

**Servicing:** 0001110039, 0001110053, 0001218172, 0001218772, 0001223002, 0331303017, 0331303115, 2339303261, 9330331000, B001117050

**OD** 53.95, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 136371, 137276.*

---

## 139525 Solenoid Cap

**Servicing:** 0001108074, 0001108112, 0001108125, 0001108128, 0001108186, 0001112019, 0001112029, 0331303143, 2339303322, B001111390

**OD** 54.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137490, 234434.*

---

## 139597 Solenoid Cap

**Servicing:** 0001107030, 0001107075, 0001107079, 0001107088, 0001109034, 0001110132, 0001218166, 2339303202, 2339303294, 2339303306

**OD** 54.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139069, 139500.*

---

## 139598 Solenoid Cap

**Servicing:** 0001107017, 0001107018, 0001107054, 0001107055, 0001107068, 0001107069, 0001107073, 0001107074, 0331303162, 0331303662

**OD** 54.00, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 137982, 233480.*

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#Available while stock last, * Program development.

## 230087 Solenoid Cap

**Servicing:** 2339403010

**OD** 63.35, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139967.*

## 230278 Solenoid Cap

**Servicing:** 2339402117, 2339402156

**OD** 58.70, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 230904.*

## 231558 Solenoid Cap

**Servicing:** 0001107442, 0001107443, 0001108157, 0001108196, 0001108245, 0001109025, 0001109200, 0001109201, 2339304005, 2339304009

**OD** 50.30, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 137879.*

## 231565 Solenoid Cap

**Servicing:** 0001218157, 0001223001, 0001223014, 9330331001

**OD** 55.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137491.*

## 231802 Solenoid Cap

**Servicing:** 0001106014, 0001107067, 0001107076, 0001107078, 0001108166, 0001108167, 0001108173, 0001115002, 0001116001, 2339304007

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139075.*

Pkg. 5

## 231815 Solenoid Cap

**Servicing:** 0001107047, 2339304003

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139019.*

## 231825 Solenoid Cap

**Servicing:** 0001230002, 0001230006, 0001230012, 0001230014, 0001231011, 2339402132

**OD** 59.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230452.*

## 231828 Solenoid Cap

**Servicing:** 0001107063, 0001108176, 0001108183, 0001109026, 2339304011

**OD** 50.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230115.*

## 231882 Solenoid Cap

**Servicing:** 0001107077, 0001107098, 0001107408, 0001113006, 0001116005, 2339304022, 2339304024

**OD** 50.30, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230258, 232191.*

Pkg. 5

## 232024 Solenoid Cap

**Servicing:** 0001369015, 0331402106, 0331402606

**OD** 59.00, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 138313.*

## 232195 Solenoid Cap

**Servicing:** 0001231007, 0001231008, 0001231009, 0001231011, 0001231019, 0001231029, 0001231030, 2339402116, 2339402139, 2339402157

**OD** 58.94, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 231711, 233582, 233852.*

## 232416 Solenoid Cap

**Servicing:** 2339303212

**OD** 54.35, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137877.*



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**232421** Solenoid Cap

**Servicing:** 0331303144, 0331303644

**OD** 54.70, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 232420.*

**233075** Solenoid Cap

**Servicing:** 0001106018, 0001106019, 0001107037, 0001107048, 0001107072, 0001107096, 0001107403, 0001107406, 0001107429, 0001107437

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230356.*

**233499** Solenoid Cap

**Servicing:** 6004AA0018, 9007045018

**OD** 54.00, **No./terminals** 3,
**Bracket type** Crimp

**233925** Solenoid Cap

**Servicing:** 0001108197, 0001115005, 0001115015, 0001115020, 2339303267, 2339303335, B001115020

**OD** 54.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230635.*

**234437** Solenoid Cap

**Servicing:** 2339304020

**OD** 50.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230848.*

**234438** Solenoid Cap

**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, 2339304033, 2339304054, B001109104

**OD** 50.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 232188.*

Pkg. 5

**234439** Solenoid Cap

**Servicing:** 2339304055

**OD** 50.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 231203.*

**234845** Solenoid Cap

**Servicing:** 0001108162, 0001112041, 0001116003, 2339304008, F000SH0125, F000SH0131

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137612.*

**234917** Solenoid Cap

**Servicing:** 0001371006, 2339403006

**OD** 63.65, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138311.*

**235005** Solenoid Cap

**Servicing:** 0001372002, 0001372003, 0001372007, 0001372008, 2339304009, B001860021, B001860023

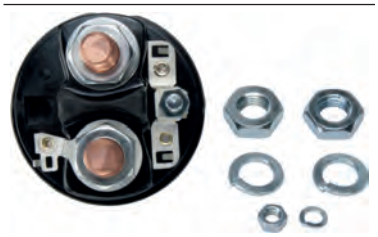
**OD** 63.70, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 139965.*

**236372** Solenoid Cap

**Replacing:** 1330516633

**Servicing:** 0001107450, 0001107451, 0001107508, 0001107509, 0001107534, 0001107535, 0001108405, 0001108406, 0001109315, 0001121408

**OD** 50.50, **No./terminals** 3



**236646** Solenoid Cap

**Servicing:** 0001230002

**OD** 58.86, **No./terminals** 3



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#Available while stock last, * Program development.

**330536** Solenoid Cap

**Servicing:** 0001107425, 0001107426

**OD** 50.36, **No./terminals** 3, **Bracket type** Crimp

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**331004** Solenoid Cap

**Servicing:** 0001231016, 0001231046

**No./terminals** 4, **Bracket type** Crimp

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## Moving Contacts

Pkg. 5

**131591** Contact Plate

**Length** 30.00, **Thickness** 2.00, **Width** 15.00

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Pkg. 5

**131592** Contact Plate

**Length** 35.00, **Thickness** 4.00, **Width** 18.00

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Pkg. 5

**131594** Moving Contact

**Length** 31.60, **Shaft measurement** 31.60, **Thickness** 2.00, **Width** 15.00

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Pkg. 5

**131595** Moving Contact

**Length** 39.50, **Shaft measurement** 31.60, **Thickness** 4.00, **Width** 18.00

**Alternative no.:** B131595

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Pkg. 5

**132275** Moving Contact

**Shaft measurement** 32.10, **Thickness** 3.90

**Alternative no.:** B132275

---

Pkg. 5

**132276** Moving Contact

**Servicing:** 0001106018, 0001107410, 0001107448, 0001107449, 0001107450, 0001107508, 0001107509, 0001107534, 0001108245, 0001109305

**Length** 36.00, **Shaft measurement** 31.60, **Thickness** 2.00, **Width** 15.00

**Alternative no.:** B132276

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Pkg. 5

**132277** Moving Contact

**Shaft measurement** 32.10, **Thickness** 2.50

---

Pkg. 5

**132281** Moving Contact

**Servicing:** 0001106014, 0001106023, 0001109315, 0001147404, 0001223014

**Length** 36.00, **Shaft measurement** 31.50, **Thickness** 3.00, **Width** 15.00

---

Pkg. 5

**133503** Contact Plate

**Servicing:** 0001223504, 0001231003, 0331402031, 0331402054, 0331402089

**Length** 39.50, **Thickness** 4.00, **Width** 18.00

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**136034** Contact Kit

**Servicing:** 0001223504, 0001231003, 0001231004, 0001231007, 0001231008, 0001231009, 0001231011, 0001231014, 0001231045, 0001368313

**Length** 39.20, **Shaft measurement** 52.80, **Thickness** 4.00, **Width** 17.70

---

Pkg. 5

**231384** Moving Contact

**Servicing:** 0001371004, 0001371006, 0001372002, 0001372003, 0001372007, 0001372008, B001860021, B001860023

**OD** 25.00, **Shaft measurement** 52.00, **Thickness** 5.00

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Pkg. 5

## 231821 Moving Contact

**Servicing:** 0001230002, 0001231007, 0001231008, 0001231009, 0001231011, 0001241020, 0331402106, 2339402115, 2339402117

**OD** 18.50, **Length** 42.50,
**Shaft measurement** 42.50

Pkg. 5

## 233786 Moving Contact

**Servicing:** 2339304038, 2339305002

**OD** 14.30, **Shaft measurement** 30.30,
**Thickness** 4.05

Pkg. 5

## 235538 Moving Contact

**Length** 36.00, **Shaft measurement** 31.60,
**Thickness** 2.00, **Width** 15.00,
*Silver plated.*

**Alternative no.:** B235538

Pkg. 75

## B131595 Moving Contact

**Replacing:** 131595

**Shaft measurement** 32.05, **Thickness** 3.91

**Alternative no.:** 131595

Pkg. 75

## B132275 Moving Contact

**Replacing:** 132275

**Servicing:** 0001368082, 0001368311

**Shaft measurement** 32.13, **Thickness** 3.93

**Alternative no.:** 132275

Pkg. 100

## B132276 Moving Contact

**Replacing:** 132276

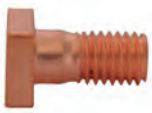
**Servicing:** 0001106014, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107406, 0001107423, 0001107424, 0001107448

**Length** 36.00, **Shaft measurement** 31.60,
**Thickness** 2.00, **Width** 15.00,

**Alternative no.:** 132276

### Fixed Contacts

Pkg. 10



## 133568 Fixed Contact

**Total length** 20.50,
**Length/rear collar** 16.55,
**Thread length** 11.00, **Thread size** M8

Pkg. 10

## 133569 Fixed Contact

**Total length** 30.50,
**Length/rear collar** 26.00,
**Thread length** 22.00, **Thread size** M8

Pkg. 10

## 133570 Fixed Contact

**Total length** 33.00,
**Length/rear collar** 27.40,
**Thread length** 25.15, **Thread size** M10

**Alternative no.:** B133570

Pkg. 10

## 133571 Fixed Contact

**Total length** 41.00,
**Length/rear collar** 35.00,
**Thread length** 32.30, **Thread size** M10

**Alternative no.:** B133571

Pkg. 50

## 133572 Fixed Contact

**Total length** 36.00,
**Length/rear collar** 34.30,
**Thread length** 28.25, **Thread size** M8

Pkg. 10

## 133573 Fixed Contact

**Total length** 25.95,
**Length/rear collar** 20.45,
**Thread length** 17.60, **Thread size** M8

**Alternative no.:** B133573



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Pkg. 10

## 133575 Fixed Contact

**Total length** 36.00, **Thread size** M8
**Alternative no.:** B133575

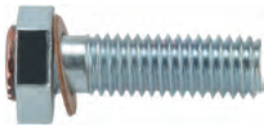
Pkg. 10

## 134141 Fixed Contact

**Servicing:** 0001223014
**Total length** 50.60,
**Length/rear collar** 45.30,
**Thread length** 41.00, **Thread size** M8
**Alternative no.:** B134141

## 136460 Fixed Contact Kit

**Total length** 38.75,
**Length/rear collar** 31.50,
**Thread length** 29.15, **Thread size** M10



## 234449 Fixed Contact

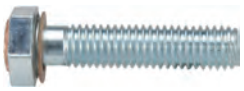
**Replacing:** 234455
**Total length** 31.00,
**Length/rear collar** 25.20,
**Thread length** 21.20, **Thread size** M8

Pkg. 10

## 234450 Fixed Contact

**Total length** 46.00,
**Length/rear collar** 40.00,
**Thread length** 36.45, **Thread size** M8

Pkg. 10



## 234452 Fixed Contact

**Servicing:** 0001147404
**Total length** 41.30,
**Length/rear collar** 35.35,
**Thread length** 30.40, **Thread size** M8

## 234453 Fixed Contact

**Total length** 41.00,
**Length/rear collar** 35.25,
**Thread length** 31.00, **Thread size** M8

## 234454 Fixed Contact

**Total length** 41.00,
**Length/rear collar** 36.10,
**Thread length** 31.60, **Thread size** M10

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## 332609 Fixed Contact

**Replacing:** 1333450783
**Total length** 34.85,
**Length/rear collar** 24.88,
**Thread length** 24.96, **Thread size** M10

Pkg. 40

## B133570 Fixed Contact

**Replacing:** 133570
**Servicing:** 0001368082
**Alternative no.:** 133570

Pkg. 40

## B133571 Fixed Contact

**Replacing:** 133571
**Servicing:** 0001368082
**Alternative no.:** 133571

Pkg. 40

## B133573 Fixed Contact

**Replacing:** 133573
**Servicing:** 0001107080, 0986010030
**Alternative no.:** 133573

Pkg. 40

## B133575 Fixed Contact

**Servicing:** 0001106023, 0001107080, 0001115015, 0001223014, 0986010030

**Alternative no.:** 133575

Pkg. 40

## B134141 Fixed Contact

**Replacing:** 134141

**Alternative no.:** 134141

### Various

Pkg. 1000

## 136652 Gasket

**ID** 8.45, **OD** 12.85, **Thickness** 1.00

*For M8 bolt.*

## 330257 5★ Cover

**Manufacturer:** Bosch

**Replacing:** 6033AD5273

**Servicing:** 0001231040, 0001241012, 0001241015, 0001241020, 0001261013, 0001261023, 0001261044, 0001261045, 0001261069, 0001263003

**Height** 143.50

### Drives

## 130027 Drive

**Replacing:** 2006209311, 2006209161, 2006209160, 1006209339, 1006209233, 1006209161, 1006209104, 1006209102

**Servicing:** 0001160003, 0001160011, 0001160013, 0001207016, 0001207017, 0001207018, 0001207019, 0001207020, 0001211012, 0001211013

**ID** 11.00, **OD** 26.00, **OD/housing** 46.20, **Total length** 67.00, **Splines A** 10, **No./ teeth** 9, **Rotation** ACR

## 130388 Drive

**Replacing:** 2006209324, 2006209322, 1006209108

**Servicing:** 0001311038, 0001311048

**ID** 12.00, **OD** 26.80, **OD/housing** 46.10, **Total length** 68.00, **Splines A** 10, **No./ teeth** 10, **Rotation** CR

## 130390 Drive

**Replacing:** 9003336212, 1006209140, 1006209110, 1006209105, 1006209071, 1006209056, 1006209049, 1006209039

**Servicing:** 0001207003, 0001207009, 0001207014, 0001207015, 0001208004, 0001208007, 0001208018, 0001208032, 0001209001, 0001209006

**ID** 12.00, **OD** 29.60, **OD/housing** 46.30, **Total length** 68.00, **Splines A** 10, **No./ teeth** 9, **Rotation** CR

## 130393 Drive

**Replacing:** 9001140104, 1006209445, 1006209401

**Servicing:** 0001157012, 0001157013, 0001157021, 0001157023, 9000141100, 9000141101, 9000141103, 9000141107, 9000141108, 9000141111

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 68.50, **Splines A** 10, **No./ teeth** 9, **Rotation** CR

## 130396 Drive

**Replacing:** 9001336324, 9001082748, 9001082686, 9001082660, 9001082340, 9001066236, 1006209471, 1006209463

**Servicing:** 0001157024, 0001157025, 0001157028, 0001157029, 0001157030, 0001208200, 0001208201, 0001208202, 0001208206, 0001208208

**ID** 12.00, **OD** 25.80, **OD/housing** 46.30, **Total length** 64.50, **Splines A** 10, **No./ teeth** 9, **Rotation** CR

**Alternative no.:** 333521 5★

## 130398 Drive

**Replacing:** 1006209421

**Servicing:** 0001208203, 0001208205, 0001208210, 0001208214, 0001208406, B001208085, B001208101, B001208160

**ID** 12.00, **OD** 25.80, **OD/housing** 46.85, **Total length** 71.00, **Splines A** 10, **No./ teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

## 130400 Drive

**Replacing:** 1006209429

**Servicing:** 0001208172, 0001208219, 0001208220, 0001208223, 0001208232, 0001208233, 0001208409, 0001208423, 0001211227, 0001211228

**ID** 12.00, **OD** 26.80, **OD/housing** 46.20, **Total length** 64.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 130401 Drive

**Replacing:** 9001043178, 2006209273, 1006209439, 1006209402, 1006209080

**Servicing:** 0001313003, 0001313004, 0001313005, 0001313006, 0001313007, 0001314002, 0001314005, B001313017, B001315038

**ID** 12.00, **OD** 25.80, **OD/housing** 46.25, **Total length** 63.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130402 Drive

**Replacing:** 1006209444, 1006209081

**Servicing:** 0001311042, 0001314001

**ID** 12.00, **OD** 29.60, **OD/housing** 46.25, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130404 Drive

**Replacing:** 9001082669, 9001082362, 9001042021, 2006209162, 1006209431, 1006209424, 1006209162

**Servicing:** 0001204102, 0001204103, 0001208403, 0001208411, 0001208412, 0001208414, 0001208415, 0001208416, 0001208417, 0001208418

**ID** 11.00, **OD** 25.80, **OD/housing** 46.10, **Total length** 63.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333231 5★

## 130405 Drive

**Replacing:** 2006209163, 1006209417, 1006209412, 1006209411, 1006209405, 1006209403, 1006209400

**Servicing:** 0001208053, 0001208054, 0001208055, 0001208254, 0001208255, 0001211025, 0001211204, 0001211205, 0001211209, 0001211210

**ID** 12.00, **OD** 25.80, **OD/housing** 46.15, **Total length** 63.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333520 5★

## 130406 Drive

**Replacing:** 9001082420, 2006209166, 2006209165, 1006209332, 1006209165, 1006209127, 1006209101, 1006209068

**Servicing:** 0001207010, 0001208001, 0001208003, 0001208009, 0001208011, 0001208019, 0001208020, 0001208023, 0001208024, 0001208025

**ID** 12.00, **OD** 26.00, **OD/housing** 46.15, **Total length** 68.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130407 Drive

**Replacing:** 2006209167

**ID** 12.00, **OD** 29.00, **OD/housing** 47.55, **Total length** 63.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 130409 Drive

**Replacing:** 2006209332, 2006209331, 2006209249, 2006209242, 2006209241

**Servicing:** 0001362001, 0001362002, 0001362003, 0001362004, 0001362007, 0001362027, 0001362028, 0001362029, 0001362030, 9000143406

**ID** 12.00, **OD** 25.80, **OD/housing** 54.20, **Total length** 73.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130412 Drive

**Replacing:** 2006209321, 1006209437

**Servicing:** 0001208049, 0001208249, 0001211206, 0001211989

**ID** 12.00, **OD** 26.80, **OD/housing** 47.50, **Total length** 64.50, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 130414 Drive

**Replacing:** 2006209500, 2006209471

**Servicing:** 0001362001, 0001362002, 0001362029, 0001362030, 0001362038, 0001362047, 0001362069, 0001362070, 0001362077, 0001362078

**ID** 12.00, **OD** 25.80, **OD/housing** 54.50, **Total length** 71.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414Z, 130414ZZ, 333516 5★

**Best Choice**

## 130414Z Drive

**Replacing:** 2006209500, 2006209471

**ID** 12.00, **OD** 25.80, **OD/housing** 54.00, **Total length** 71.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 130414ZZ Drive

**Replacing:** 2006209500, 2006209471

**ID** 12.00, **OD** 25.20, **OD/housing** 54.15, **Total length** 70.95, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414, 130414Z

## 130415 Drive

**Replacing:** 9001083444, 2006209915, 2006209904, 2006209900, 2006209212, 2006209189, 2006209183, 2006209068

**Servicing:** 0001354004, 0001354006, 0001354012, 0001354016, 0001354021, 0001354023, 0001354027, 0001354031, 0001354055, 0001354064

**ID** 14.30, **OD** 34.00, **OD/housing** 54.20, **Total length** 90.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 130416 Drive

**Replacing:** 2006209971, 2006209917, 2006209388, 2006209368, 2006209268, 2006209073, 2006209072, 2006203022

**Servicing:** 0001358018, 0001358020, 0001358027, 0001358033

**ID** 14.30, **OD** 41.00, **OD/housing** 60.00, **Total length** 92.50, **Splines A** 3, **No./teeth** 11, **Rotation** CR

## 130417 Drive

**Replacing:** 2006380718, 2006380410, 2006380010

**Servicing:** 0001401011, 0001401012, 0001401023, 0001401028, 0001401041, 0001401050, 0001401052, 0001401066, 0001401067, 0001401071

**ID** 14.70, **OD** 34.70, **OD/housing** 35.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 130418 Drive

**Replacing:** 2006382156, 2006382152, 2006382018

**Servicing:** 0001410018, 0001410032, 0001410037, 0001410044, 0001410046, 0001410050, 0001410053, 0001410062, 0001410063, 0001410069

**ID** 10.15, **OD** 41.00, **Total length** 61.00, **No./teeth** 11

**Alternative no.:** 333175 5★, 130418Z

**Best Choice**

## 130419 Drive

**Replacing:** 2006382176, 2006382150, 2006382020, 2006382017, 2006382013

**Servicing:** 0001410015, 0001410016, 0001410021, 0001410029, 0001410041, 0001410058, 0001410066, 0001410078, 0001410082, 0001410083

**ID** 10.15, **OD** 34.30, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333173 5★, 130419Z

## 130419Z Drive

**Replacing:** 2006382176, 2006382150, 2006382020, 2006382017, 2006382013

**ID** 14.00, **OD** 34.80, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333173 5★, 130419

## 130721 Drive

**Replacing:** 2006381558

**Servicing:** 0001401044, 0001401046, 0001501003, 0001501014, 0001501020, 0001501032

**ID** 14.60, **OD** 41.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

*Bronze.*

## 130722 Drive

**Replacing:** 2006380500

**ID** 14.70, **OD** 39.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 10

## 130730 Drive

**Replacing:** 9001336217, 9001336213

**ID** 11.55, **OD** 25.25, **OD/housing** 45.00, **Total length** 62.15, **Splines A** 12, **No./teeth** 9, **Rotation** ACR



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#Available while stock last, * Program development.

## 130731 Drive

**Replacing:** 9001336221

**ID** 11.55, **OD** 29.20, **OD/housing** 45.00, **Total length** 61.90, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

## 130738 Drive

**Replacing:** 9001133219

**ID** 14.00, **OD** 29.15, **OD/housing** 46.20, **Total length** 68.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 130920 Drive

**Replacing:** 9001336203

**ID** 12.00, **OD** 26.95, **OD/housing** 41.15, **Total length** 60.65, **Splines A** 6, **No./teeth** 8, **Rotation** ACR

## 130930 Drive

**Replacing:** 2006209478

**Servicing:** 0001362037, 0001362071, B001812263

**ID** 14.25, **OD** 29.60, **OD/housing** 54.00, **Total length** 73.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130931 Drive

**Replacing:** 2006209448, 2006209418, 2006209330, 2006209240

**Servicing:** 0001362031, 0001362032, 0001363101

**ID** 14.30, **OD** 34.80, **OD/housing** 60.00, **Total length** 74.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130932 Drive

**Replacing:** 2006209435, 2006209405

**Servicing:** 0001359050, 0001359054, 0001359058, 0001359061, 0001359064, 0001359065, 0001359088, 0001359095, 0001359105, 0001359114

**ID** 14.30, **OD** 40.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 130950 Drive

**Replacing:** 2006209483, 2006209470

**Servicing:** 0001362039, 0001362056, 0001362062, 0001362065, 0001362073, 0001362102, 0001362105, 0001362322, 0001362323, 0001363101

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 73.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

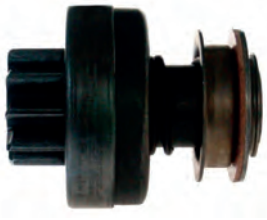
**Alternative no.:** 333207 5★

## 130995 Drive

**Replacing:** 9001042032, 9001042013, 1006209423

**Servicing:** 0001208425, 0001208426, 0001208428, 0001208429, 0001211221, 0001211222, 0001211251, 0001211252, 0001211253, 0001211254

**ID** 11.00, **OD** 25.80, **OD/housing** 46.30, **Total length** 74.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



## 131019 Drive

**Replacing:** 2006209504, 2006209485, 2006209476, 2006209469, 2006209449

**Servicing:** 0001362034, 0001362036, 0001362040, 0001362041, 0001362043, 0001362046, 0001362050, 0001362053, 0001362072, 0001362074

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 74.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333205 5★

## 131065 Drive

**Replacing:** F000AL1897, 2008209008, 2006209530, 2006209529, 2006209492

**Servicing:** 0001362051, 0001362063, 0001362096, 0001362097, 0001362300, 0001362306, 0001362309, 0001362315, 0001363116, 0001364301

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333190 5★, 131065Z



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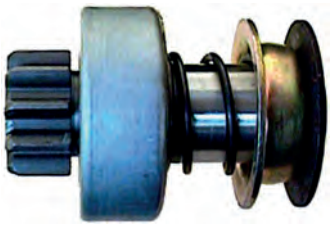
CAR GO **Best Choice**

## 131065Z Drive

**Replacing:** 2008209008, 2006209530

**ID** 14.20, **OD** 34.30, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333190 5★, 131065



## 131088 Drive

**Replacing:** 9001336232

**ID** 12.05, **OD** 26.70, **OD/housing** 43.20, **Total length** 67.50, **Splines A** 5, **No./teeth** 10, **Rotation** CR

## 131097 Drive

**Replacing:** 9001692096, 1006209472, 1006209449, 1006209428, 1006209406

**Servicing:** 0001208204, 0001211225, 0001311100, 0001311128, 0001311150, 0001316007, 9000692009, B001208010, B001211108, B001311132

**ID** 12.00, **OD** 30.00, **OD/housing** 46.30, **Total length** 64.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333233 5★

## 131098 Drive

**Replacing:** 1006209448

**Servicing:** 0001157026, 0001208213, 0001208221, 0001208222, 0001311134, 0001311135, 0001311138, 0001314022, B001311048, B001311102

**ID** 12.00, **OD** 25.80, **OD/housing** 47.00, **Total length** 64.50, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

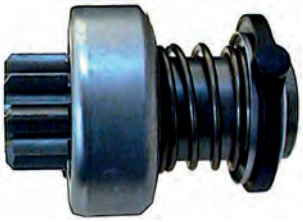
## 131101 Drive

**Replacing:** 1006209473, 1006209470, 1006209469

**Servicing:** 0001311146, 0001314026, 0001314027, 0001314028, 0001314029, 0001314030, 0001314033, 0001314034, 0001314035, 0001314036

**ID** 11.90, **OD** 25.80, **OD/housing** 46.20, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333519 5★



## 131102 Drive

**Replacing:** 1006209500

**Servicing:** 0001317007, 0001317008, 0001317013, 0001317022, 0001317025, B001329009, B001329014, B001329045

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333220 5★, 131102Z

CAR GO **Best Choice**

## 131102Z Drive

**Replacing:** 1006209500

**ID** 12.00, **OD** 25.80, **OD/housing** 46.00, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333220 5★, 131102

CAR GO **Best Choice**

## 131104 Drive

**Replacing:** F000AL1698, F000AL1040, 9001081022, 1006209939, 1006209906, 1006209711, 1006209709, 1006209707

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108011, 0001108012, 0001108016, 0001108017, 0001108018

**ID** 12.00, **OD** 25.80, **OD/housing** 47.50, **Total length** 59.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333176 5★, 131104ZZ

## 131104ZZ Drive

**Replacing:** F000AL1698, F000AL1534, F000AL1516, F000AL1040, 9001081022, 1006209939, 1006209906, 1006209709

**ID** 12.00, **OD** 25.30, **OD/housing** 46.20, **Total length** 58.40, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333176 5★, 131104

## 131106 Drive

**Replacing:** 2006209443, 2006209413

**Servicing:** 0001359067, 0001359069, 0001359081, 0001359082, 0001359103, 0001359104, 0001359109, 0001359110, 0001359126, 0001359127

**ID** 14.29, **OD** 39.00, **OD/housing** 60.32, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR



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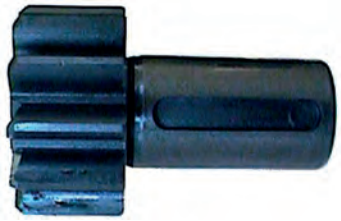
#Available while stock last, * Program development.



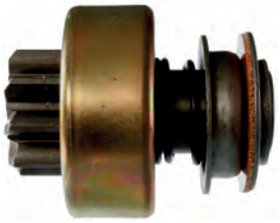
## 131107 Drive

**Replacing:** 2006382172, 2006382019

**Servicing:** 0001410065, 0001411017, 0001411021, 0001411025, 0001411026, 0001411027, 0001416052, 0001417005, 0001417006, 0001417007

**ID** 10.25, **OD** 41.00, **Total length** 61.00, **No./teeth** 11

**Alternative no.:** 333540 5★



## 131108 Drive

**Replacing:** 2006209481, 2006209473, 2006209333, 2006209243

**Servicing:** 0001362005, 0001362006, 0001362026, 0001362044, 0001362045, 0001362055, 0001362061, 0001362079, 0001362086, 0001363104

**ID** 14.35, **OD** 36.50, **OD/housing** 59.95, **Total length** 73.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131150 Drive

**Replacing:** 1006209502

**Servicing:** 0001317011, 0001317012, 0001317016, 0001317017, B001329013, B001329029

**ID** 12.00, **OD** 25.80, **OD/housing** 46.15, **Total length** 85.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 131167 Drive

**Replacing:** 2006383160, 2006382174

**Servicing:** 0001410067, 0001410068, 0001410116, 0001415020, 0001416038, 0001416043, 0001416044, 0001416072, 9000084008, B001450102

**ID** 10.15, **OD** 42.00, **Total length** 61.00, **No./teeth** 11

## 131207 Drive

**Replacing:** 2006209431

**Servicing:** 0001362081, 0001362602, 0001362603, 0001362606, 0001362607, B001812323, B001812324, B001812349, B001812422, B001812426

**ID** 14.20, **OD** 27.20, **OD/housing** 54.10, **Total length** 74.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 131267 Drive

**Replacing:** 2006209401, 2006209341, 2006209301, 2006209119, 2006209117, 2006209107

**Servicing:** 0001358048, 0001358049, 0001359012, 0001359013, 0001359014, 0001359018, 0001359025, 0001359027, 0001359031, 0001359032

**ID** 14.00, **OD** 34.80, **OD/housing** 60.14, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131269 Drive

**Replacing:** 2006209344, 2006209342, 2006209304, 2006209302, 2006209120, 2006209109

**Servicing:** 0001358050, 0001358051, 0001359001, 0001359003, 0001359004, 0001359010, 0001359019, 0001359024, 0001359026, 0001359030

**ID** 14.33, **OD** 40.55, **OD/housing** 60.00, **Total length** 89.60, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 131270 Drive

**Replacing:** 2006209440, 2006209438, 2006209423, 2006209410, 2006209408

**Servicing:** 0001359053, 0001359056, 0001359060, 0001359063, 0001359070, 0001359075, 0001359076, 0001359085, 0001359092, 0001359096

**ID** 14.29, **OD** 41.00, **OD/housing** 60.06, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 131271 Drive

**Replacing:** 2006209494, 2006209425

**Servicing:** 0001359108, 0001362018, 0001362064, 0001362301, 0001362303, 0001362304, 0001363118, 0001363121, 0001366008, 0001367008

**ID** 14.30, **OD** 41.00, **OD/housing** 60.20, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333217 5★



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#Available while stock last, * Program development.



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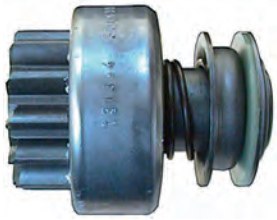


## 131344 Drive

**Replacing:** 2006209466

**Servicing:** 0001362307, B001812330

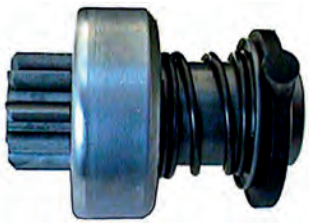
**ID** 14.40, **OD** 46.30, **OD/housing** 59.95, **Total length** 74.00, **Splines A** 10, **No./teeth** 12, **Rotation** CR

## 131381 Drive

**Replacing:** 9001083502, 2006209447, 2006209417

**Servicing:** 0001359102, 0001359122, 0001360003, 0001360043, 0001360063, 9000083043, 9000453088, 9000453091

**ID** 14.30, **OD** 34.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 131432 Drive

**Replacing:** 1006209517, 1006209501

**Servicing:** 0001317009, 0001317010, 0001317014, 0001317015, 0001317018, 0001317019, 0001317020, 0001317021, B001329010

**ID** 10.90, **OD** 25.80, **OD/housing** 46.25, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

CAR GO **Best Choice**

## 131433 Drive

**Replacing:** F000AL1519, 1006210145, 1006209907, 1006209905, 1006209568, 1006209566, 1006209545, 1006209537

**Servicing:** 0001107014, 0001107016, 0001107027, 0001107028, 0001107029, 0001107041, 0001108004, 0001108020, 0001108033, 0001108037

**ID** 12.00, **OD** 26.80, **OD/housing** 47.50, **Total length** 58.50, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333172 5★, 131433Z

## 131433Z Drive

**Replacing:** F000AL1519, 1006210145, 1006209907, 1006209905, 1006209568, 1006209566, 1006209545, 1006209537

**ID** 12.00, **OD** 26.80, **OD/housing** 46.25, **Total length** 58.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333172 5★, 131433

## 131434 Drive

**Replacing:** 1006210152, 1006209908, 1006209569, 1006209560

**Servicing:** 0001110013, 0001110019, 0001110043, 0001110044, 0001110051, 0001110064, 0001110065, 0001110088, 0001110104, 0001110105

**ID** 12.00, **OD** 27.00, **OD/housing** 54.25, **Total length** 59.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333548 5★

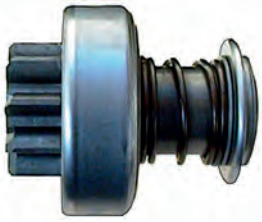
## 131475 Drive

**Replacing:** 2006209932, 2006209539, 2006209533, 2006209498

**Servicing:** 0001366019, 0001368016, 0001368043, 0001368081, 0001368311, 0001368320, B001811052, B001816150, B001816548

**ID** 14.30, **OD** 37.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333223 5★

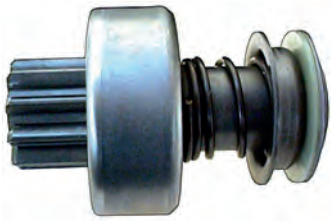


## 131489 Drive

**Replacing:** 1006209436

**Servicing:** 0001314010, 0001314017, 0001316008, B001315024, B001315068, B001328013, B001328014

**ID** 12.00, **OD** 34.80, **OD/housing** 53.45, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 131495 Drive

**Replacing:** 2006209444, 2006209414

**Servicing:** 0001359090, 9000083071, 9000083076, 9000453074, 9000453075, 9000453076

**ID** 14.30, **OD** 32.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333515 5★



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#Available while stock last, * Program development.

## 131597 Drive

**Replacing:** 2006209499, 2006209462

**Servicing:** 0001362093, 0001362310, 0001362327, 0001362328, 0001363127, 0001367006, 0001367022, 0001367035, 0001367040, 0001367041

**ID** 14.30, **OD** 39.00, **OD/housing** 60.10, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333228 5★

## 131711 Drive

**Replacing:** 2006209737, 2006209437, 2006209407

**Servicing:** 0001358200, 0001358201, 0001358202

**ID** 14.30, **OD** 46.30, **OD/housing** 59.90, **Total length** 75.00, **Splines A** 10, **No./teeth** 12, **Rotation** CR

## 131712 Drive

**Replacing:** 2006209336, 2006209246

**Servicing:** 0001359120, 0001362012, 0001362013, 0001362016, 0001362017, 0001362018, 0001362021, 0001362024, 0001362033, 0001363002

**ID** 14.45, **OD** 34.80, **OD/housing** 60.00, **Total length** 77.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333854

## 131713 Drive

**Replacing:** 2006209902, 2006209181, 2006209032, 2006209021, 2006208013

**Servicing:** 0001354018, 0001354029, 0001354033

**ID** 14.30, **OD** 41.00, **OD/housing** 54.15, **Total length** 90.00, **Splines A** 3, **No./teeth** 11, **Rotation** CR

## 131714 Drive

**Replacing:** 2006380558

**Servicing:** 0001401027, 0001401047, 0001402053, 0001402057, 0001501035, 0001501042, BNG4/12CR168SR, BPD6/24AR180

**ID** 14.60, **OD** 41.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

## 131744 Drive

**Replacing:** 9001084020

**ID** 14.60, **OD** 45.50, **Total length** 120.00, **Splines A** 3, **No./teeth** 12

## 131745 Drive

**Replacing:** 2006380594, 2006380574

**Servicing:** 0001401026, 0001401062, BNG4/12CR242SR

**ID** 14.60, **OD** 39.50, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

## 131747 Drive

**Replacing:** 2006380458, 2006380450

**Servicing:** 0001400016, 0001401019, BNG2,5/12DR229, BNG4/12CR236

**ID** 14.50, **OD** 45.90, **Total length** 120.00, **Splines A** 3, **No./teeth** 13,

## 131767 Drive

**Replacing:** 9001453670

**Servicing:** 40MT, 50MT, 0001370001, 9000453029, 9000453066, B001851001

**ID** 15.90 (5/8"), **OD** 38.80, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 10, **Rotation** CR

## 131768 Drive

**Replacing:** 2006202003, 2006202001

**Servicing:** 40MT, 0001370002, 0001420002, 0001420006, 0001420007, 0001420008, 0001420010, 0001420011, 0001420026, 0001420027

**ID** 19.00 (3/4"), **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 11, **Rotation** CR

## 131771 Drive

**Replacing:** 2006209280, 1006209450, 1006208450, 1006208280

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212012, 0001212013, 0001212200, 0001212204, 0001212205, 0001212208

**ID** 12.10, **OD** 26.00, **OD/housing** 47.00, **Total length** 108.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 131772 Drive

**Replacing:** 1006209451

**Servicing:** 0001212206, 0001212207, 0001212210, 0001212400, 0001212401, 0001312101, 0001312102, 0001312103, 0001312104, 0001312105

**ID** 12.10, **OD** 26.00, **OD/housing** 47.00, **Total length** 108.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

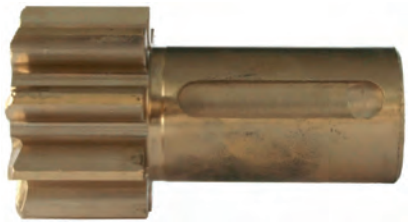
## 131773 5★ Drive

**Manufacturer:** Remy

**Replacing:** 2006382162

**Servicing:** 0001410051, 0001410092, 0001410108, 0001410110, 0001411001, 0001411002, 0001411006, 0001411011, 0001411020, 0001411028

**ID** 10.10, **OD** 45.00, **Total length** 61.00, **No./teeth** 12



## 131774 5★ Drive

**Manufacturer:** Remy

**Replacing:** 2006383150

**Servicing:** 0001410016, 0001410022, 0001410024, 0001410043, 0001410049, 0001410052, 0001410086, 0001413006, 0001413008, 0001414002

**ID** 10.25, **OD** 34.50, **Total length** 61.00, **No./teeth** 9

*Bronze.*

## 131775 5★ Drive

**Manufacturer:** Remy

**Replacing:** 2006383152

**Servicing:** 0001410017, 0001410019, 0001410023, 0001410034, 0001410039, 0001410040, 0001410053, 0001410073, 0001413003, 0001413009

**ID** 10.35, **OD** 41.00, **Total length** 61.00, **No./teeth** 11

*Bronze.*

## 131994 Drive

**Replacing:** 1006209520

**Servicing:** 0001218003, 0001218020, 0001218620, B001233054, B001233091

**ID** 12.00, **OD** 35.45, **OD/housing** 53.00, **Total length** 72.85, **Splines A** 10, **No./teeth** 12, **Rotation** CR

## 131995 Drive

**Replacing:** 9003336291, 1006209523

**Servicing:** 0001218006, 0001218016, 0001218021, 0001218029, 0001218108, 0001218109, 0001218110, 0001218150, 0001218156, 0001218160

**ID** 12.00, **OD** 27.50, **OD/housing** 54.00, **Total length** 64.80, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333577 5★

## 131996 Drive

**Replacing:** F000AL1881, 9009996289, 9003336283, 9002336283

**Servicing:** 0001218014, 0001218019, 0001218024, 0001218101, 0001218102, 0001218103, 0001218151, 0001218154, 0001218159, 0001218163

**ID** 12.00, **OD** 35.00, **OD/housing** 54.00, **Total length** 62.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333514 5★

## 131997 Drive

**Replacing:** 9003336284, 9003336201, 9002336207

**Servicing:** 0001218002, 0001218015, 0001218022, 0001218106, 0001218129, 0001218602, B001233022, B001233035, B001233107, B001233163

**ID** 11.95, **OD** 27.25, **OD/housing** 54.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Best Choice**

## 131998 Drive

**Replacing:** 9003336293, 9001140317

**Servicing:** 0001218001, 0001218004, 0001218005, 0001218008, 0001218010, 0001218012, 0001218013, 0001218017, 0001218018, 0001218025

**ID** 12.00, **OD** 25.35, **OD/housing** 53.50, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131998Z, 333506 5★



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All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 131998Z Drive

**Replacing:** 9003336293, 9001140317

**ID** 12.00, **OD** 25.30, **OD/housing** 54.20, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131998

## 132000 Drive

**Replacing:** 2006209933, 2006209541, 2006209537, 2006209531

**Servicing:** 0001364102, 0001364200, 0001364203, 0001364204, 0001364206, 0001364300, 0001368015, 0001368037, 0001368056, 0001368305

**ID** 14.30, **OD** 40.50, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333230 5★

CAR GO **Best Choice**

## 132079 Drive

**Replacing:** 9003336280, 9002336209, 6033AD0044, 1006384642, 1006209524

**Servicing:** 0001218009, 0001218011, 0001218026, 0001218027, 0001218028, 0001218122, 0001218134, 0001218135, 0001218136, 0001218153

**ID** 12.00, **OD** 29.35, **OD/housing** 53.50, **Total length** 62.85, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 132079Z

## 132079Z Drive

**Replacing:** 9003336280, 9002336209, 6033AD0044, 1006384642, 1006209524

**ID** 12.00, **OD** 29.15, **OD/housing** 54.30, **Total length** 62.15, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132079

## 132117 Drive

**Replacing:** 2006209450

**Servicing:** 0001364200, 0001364201, 0001364202, 0001364205, B001819102, B001819116, B001819208

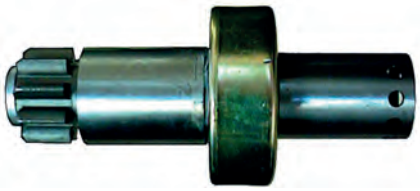
**ID** 14.42, **OD** 40.75, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 132163 Drive

**Replacing:** 9001082417, 1006209902, 1006209125, 1006209017, 1006209014, 1006209012

**Servicing:** 0001203016, 0001305016, 0001308006, EGD1/12AR37

**ID** 12.00, **OD** 25.20, **OD/housing** 46.25, **Total length** 78.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR



## 132166 Drive

**Replacing:** 1006209452

**Servicing:** 0001312108, 0001312109, B001335003

**OD** 25.00, **OD/housing** 47.50, **Total length** 108.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132167 Drive

**Replacing:** 1006209519

**Servicing:** 0001317023

**ID** 12.00, **OD** 26.60, **OD/housing** 46.35, **Total length** 64.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 132168 Drive

**Replacing:** F000AL1520, 1006209522

**Servicing:** 0001110001, 0001110002, 0001110014, 0001110015, 0001110133, 0001110134, 0001112003, 0001117008, B001117071

**ID** 11.00, **OD** 25.80, **OD/housing** 46.00, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 132169 Drive

**Replacing:** 1006209532

**Servicing:** 0001110009, 0001110010, B001117030

**ID** 12.00, **OD** 25.30, **OD/housing** 46.00, **Total length** 79.70, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 132193 Drive

**Replacing:** 1006209329, 1006209325, 1006209324, 1006209323, 1006209322, 1006209321, 1006209320, 1006209119

**Servicing:** 0001207001, 0001207005, 0001208006, 0001208017, 0001310007, 0001310008, 0001310009, 0001310019, AL/EEF0.5/6

**ID** 12.65, **OD** 29.50, **OD/housing** 47.75, **Total length** 66.30, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



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#Available while stock last, * Program development.

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## 132194 Drive

**Replacing:** F000AL1871, F000AL1001, 9001082749, 9001082324, 1006209425

**Servicing:** 0001208218, 0001208408, 0001208410, 0001208422, 0001211246, 0001311116, 0001311119, 0001311123, 0001311129, 0001311130

**ID** 12.00, **OD** 29.00, **OD/housing** 46.00, **Total length** 64.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

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## 132195# Drive

**Replacing:** 1006209430

**Servicing:** 0001157020, 0001157022

**ID** 12.00, **OD** 27.00, **OD/housing** 47.65, **Total length** 61.75, **Splines A** 10, **No./teeth** 10, **Rotation** CR

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## 132204 Drive

**Replacing:** 1006209571, 1006209541

**Servicing:** 0001110017, 0001110056, 0001110999, B001117203, B001117260, B001117285, F010AL0101

**ID** 12.00, **OD** 29.00, **OD/housing** 54.00, **Total length** 59.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

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## 132205 Drive

**Replacing:** 1006209691, 1006209539, 1006209538

**Servicing:** 0001110003, 0001110005, 0001110012, 0001110016, 0001110025, 0001110026, 0001110039, 0001110053, 0001110054, 0001110055

**ID** 12.00, **OD** 27.80, **OD/housing** 45.70, **Total length** 58.75, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333196 5★, 132205Z

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CAR GO **Best Choice**

## 132205Z Drive

**Replacing:** 1006209691, 1006209539, 1006209538

**ID** 12.00, **OD** 27.90, **OD/housing** 48.00, **Total length** 59.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333196 5★, 132205

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CAR GO **Best Choice**

## 132216 Drive

**Replacing:** 1007010045, 1006210155, 1006209921, 1006209919, 1006209918, 1006209710, 1006209703, 1006209596

**Servicing:** 0001108094, 0001108095, 0001108127, 0001110001, 0001110002, 0001110014, 0001110015, 0001110076, 0001110077, 0001110098

**ID** 12.00, **OD** 25.80, **OD/housing** 46.00, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333174 5★, 132216ZZ

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## 132216ZZ Drive

**Replacing:** 1007010045, 1006210155, 1006209921, 1006209919, 1006209918, 1006209710, 1006209703, 1006209596

**ID** 12.00, **OD** 25.30, **OD/housing** 46.30, **Total length** 58.55, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 333174 5★, 132216

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## 132273 Drive

**Replacing:** 9002453073, 9001083436, 9001083406, 2006209446, 2006209436, 2006209422, 2006209421, 2006209406

**Servicing:** 0001359017, 0001359028, 0001359031, 0001359038, 0001359049, 0001359055, 0001359057, 0001359062, 0001359071, 0001359072

**ID** 14.30, **OD** 34.20, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333227 5★

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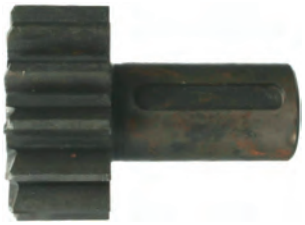

## 132308 5★ Drive

**Manufacturer:** Remy

**Replacing:** 2006383154, 2006382154

**Servicing:** 0001410025, 0001410026, 0001410035, 0001410045, 0001410047, 0001410089, 0001410094, 0001415007, 0001416004, 0001416064

**ID** 10.00, **OD** 46.65, **Total length** 61.00, **No./teeth** 13

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## 132345 Drive

**Replacing:** 2006209931, 2006209459, 2006209457, 2006209427

**Servicing:** 0001362312, 0001362316, 0001362319, 0001362321, 0001362331, 0001362332, 0001367037, 0001367075, 0001367078, 0001368059

**ID** 14.30, **OD** 32.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10

**Alternative no.:** 333510 5★

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#Available while stock last, * Program development.

## 132364 Drive

**Replacing:** 2006209229, 2006209215, 2006209095, 2006209086

**Servicing:** 0001354080, 0001354082, 0001354091, 0001354092, 0001354093, 0001354098, 0001354099, 0001354100, 0001354103, 0001355013

**ID** 14.35, **OD** 34.35, **OD/housing** 54.00, **Total length** 90.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132365 Drive

**Replacing:** 2006209901, 2006209185, 2006209031, 2006209023

**Servicing:** 0001354026, 0001354032

**ID** 14.25, **OD** 37.65, **OD/housing** 54.25, **Total length** 90.00, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 132366 Drive

**Replacing:** 2006382062

**Servicing:** 0001510001, 0001510002, 0001510008, 0001510009, 0001510017, 0001510021, 0001510022, 0001510024, 0001510030, 0001510034

**ID** 10.25, **OD** 40.75, **Total length** 75.10, **No./teeth** 11

## 132367 Drive

**Replacing:** 2006209916, 2006209386, 2006209366, 2006209071

**Servicing:** 0001358017, 0001358038, 0001358046, 0001358047

**ID** 14.25, **OD** 34.35, **OD/housing** 60.00, **Total length** 92.50, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 132368 Drive

**Replacing:** F002G20278, 2006209474, 2006209463

**Servicing:** 0001362048, 0001362049, 0001362084, 0001362100, 0001362330, 0001369020, 9000033005, 9000033007, 9000033008, 9000033009

**ID** 14.30, **OD** 39.80, **OD/housing** 54.00, **Total length** 73.85, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 132388 Drive

**Replacing:** 9003336206

**Servicing:** 0001218007, 0001218023, 0001218125, 0001218126, 0001218158, 0001218175, 0001218725, 0001218758, 0001218775

**ID** 12.00, **OD** 29.00, **OD/housing** 54.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 132542 Drive

**Replacing:** 9003336274

**Servicing:** 9000331406

**ID** 12.00, **OD** 34.50, **OD/housing** 53.60, **Total length** 56.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132697 Drive

**Replacing:** 2006209346, 2006209306, 2006209201, 2006209200

**Servicing:** 0001359016

**ID** 14.00, **OD** 32.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 132702 Drive

**Replacing:** 2006209532, 2006209495, 2006209452

**Servicing:** 0001362302, 0001362324, 0001367002, 0001367017, 0001367020, 0001367047, 0001367048, 0001367051, 0001367057, 0001367066

**ID** 14.25, **OD** 39.85, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

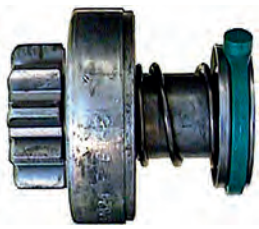
**Alternative no.:** 333209 5★, 335235

## 132732 Drive

**Replacing:** 2006202002

**Servicing:** 40MT, 50MT, 0001421005, 0001421014, 0001421015, B001421020, B001421039, B001421040

**ID** 19.00, **OD** 46.20/1.819", **OD/housing** 46.00, **Total length** 118.00/4.646", **Splines A** 19, **No./teeth** 12, **Rotation** ACR
*Bronze.*



## 132824 Drive

**Replacing:** 9003336275, 9002336203

**Servicing:** 0001218814, 0001218816, 9000331405, 9000331412, 9000331413, 9000331417, 9000331425, 9000331427, 9000332402

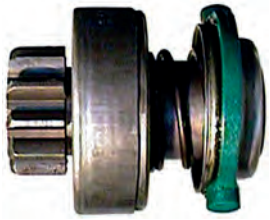
**ID** 12.00, **OD** 39.75, **OD/housing** 53.00, **Total length** 63.45, **Splines A** 10, **No./teeth** 10, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.



## 133230 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209540

**Servicing:** 0001108025, 0001108146, B001111018, B001111423

**ID** 12.00, **OD** 29.50, **OD/housing** 47.40, **Total length** 58.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 133362 Drive

**Replacing:** 9001690111, 9001066476, 9001066248, 9001066247, 9001066242, 1006209559, 1006209554, 1006209549

**Servicing:** 0001108054, 0001108065, 0001108100, 0001108108, 0001108115, 0001108117, 0001108131, 0001108141, 0001108145, 0001108210

**ID** 12.00, **OD** 29.25, **OD/housing** 46.25, **Total length** 58.20, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333201 5★, 135115

## 133443 Drive

**Replacing:** 1006209418

**Servicing:** 0001311050, 0001311051, 0001311052, 0001311055, 0001314010, B001324002, B001324003, B001324004, B001324008

**ID** 12.00, **OD** 34.00, **OD/housing** 46.00, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 133498 Drive

**Replacing:** 2006209475

**Servicing:** 0001362035, 0001362042, 0001362059, 0001362092, 0001362095, 0001363105, 0001363117, 0001363125, 0001366011, 0001366012

**ID** 14.16, **OD** 40.50, **OD/housing** 60.00, **Total length** 73.75, **Splines A** 10, **No./teeth** 11, **Rotation** CR

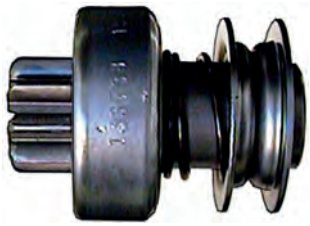
## 133596 Drive

**Replacing:** 2006209465

**Servicing:** 0001362700, 0001362701, 0001362702, 0001367700, B001812413, B001812450

**ID** 14.35, **OD** 35.50, **OD/housing** 60.00, **Total length** 74.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333225



## 133738# Drive

**Replacing:** 9001451251, 9001451249

**Servicing:** 9000451017, 9000451024

**ID** 12.00, **OD** 25.00, **OD/housing** 46.30, **Total length** 64.20, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 133853 Drive

**Replacing:** 1006209422

**Servicing:** 0001311115, 0001314039, 0001314040, B001311075, B001315080, B001315170

**ID** 12.00, **OD** 29.30, **OD/housing** 47.00, **Total length** 63.75, **Splines A** 10, **No./teeth** 11, **Rotation** ACR

## 133896 Drive

**Replacing:** 9001140114

**Servicing:** 9000141104

**ID** 12.00, **OD** 29.00, **OD/housing** 47.55, **Total length** 61.70, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 134282 Drive

**Replacing:** 2006209426

**Servicing:** 0001367014, 0001367023, 0001367028, 0001367029, 0001367082, 0001368019, 0001368020

**ID** 14.25, **OD** 34.40, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333197 5★

## 134371 Drive

**Replacing:** 2006209594, 1006209912, 1006209911, 1006209594, 1006209591, 1006209552, 1006209295

**Servicing:** 0001108076, 0001108077, 0001110031, 0001110032, 0001110061, 0001110062, 0001110069, 0001110070, 0001110084, 0001110085

**ID** 12.00, **OD** 27.65, **OD/housing** 52.30, **Total length** 79.50, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 134371Z



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

CAR GO **Best Choice**

## 134371Z Drive

**Replacing:** 2006209594, 1006209912, 1006209911, 1006209594, 1006209591, 1006209552, 1006209295

**ID** 12.00, **OD** 27.65, **OD/housing** 52.30, **Total length** 79.50, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 134371

## 134434 Drive

**Replacing:** 9003336290, 6033AD0422

**Servicing:** 0001218817, 0001218818, 6033A1J05B, 9000331421, 9000331424, 9000331428, 9000331430

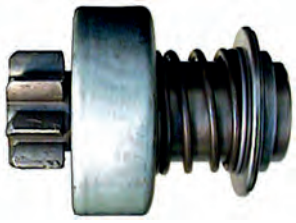
**ID** 12.00, **OD** 34.75, **OD/housing** 54.00, **Total length** 60.45, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 134644 Drive

**Replacing:** 1006209460

**Servicing:** 0001208427, 0001211241, 0001314044, B001211163, B001315179

**ID** 12.15, **OD** 30.00, **OD/housing** 48.00, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



## 134925 Drive

**Replacing:** 9001336323

**Servicing:** 9000334103, 9003334103

**ID** 12.00, **OD** 27.80, **OD/housing** 46.85, **Total length** 63.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 135085 Drive

**Replacing:** 1006210143, 1006209916, 1006209679, 1006209585

**Servicing:** 0001107007, 0001107008, 0001107020, 0001107021, 0001107052, 0001107053, 6004AA0019, 9000694029, B001110054, B001110099

**ID** 12.00, **OD** 25.25, **OD/housing** 46.50, **Total length** 55.45, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333203 5★

CAR GO **Best Choice**

## 135086 Drive

**Replacing:** F000AL1704, 9001081010, 1006209917, 1006209579

**Servicing:** 0001107003, 0001107004, 0001107022, 0001107023, 9000081001, B001110041, B001110100, F000AL0125

**ID** 12.00, **OD** 27.75, **OD/housing** 46.40, **Total length** 77.00, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 135086Z

## 135086Z Drive

**Replacing:** 1006209917, 1006209579

**ID** 12.00, **OD** 27.94, **OD/housing** 46.00, **Total length** 77.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 135086

## 135116 Drive

**Replacing:** 9002336204

**Servicing:** 0001218116, 0001218117, 0001218716, B001233180

**ID** 12.00, **OD** 27.75, **OD/housing** 54.25, **Total length** 86.35, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 135116Z, 333502 5★

CAR GO **Best Choice**

## 135116Z Drive

**Replacing:** 9002336204

**ID** 12.00, **OD** 27.50, **OD/housing** 54.25, **Total length** 86.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 135116

## 135164 Drive

**Replacing:** 1006209550

**Servicing:** 0001107058, 0001108050, 0001112034, B001111098, B001180041

**ID** 12.00, **OD** 29.10, **OD/housing** 46.25, **Total length** 58.60, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 135251 Drive

**Replacing:** 2006209482

**Servicing:** 0001362067, 0001362103, 0001362325, 0001362326, 0001362329, B001812248, B001812252, B001812437, B001812438, B001812443

**ID** 14.40, **OD** 39.45, **OD/housing** 60.00, **Total length** 73.65, **Splines A** 10, **No./teeth** 10, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



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## 135374 Drive

**Replacing:** 2006382060

**Servicing:** 0001510020, 0001510025, 0001510031, 0001510032, 0001510037, 0001510038, 0001510041, B001510020, B001510160, B001510169

**ID** 10.20, **OD** 34.50, **Total length** 75.00, **No./teeth** 9

## 135464 Drive

**Replacing:** 1006209923, 1006209578

**Servicing:** 0001108099, B001111273

**ID** 12.00, **OD** 29.20, **OD/housing** 46.25, **Total length** 58.65, **Splines A** 6, **No./teeth** 11, **Rotation** ACR

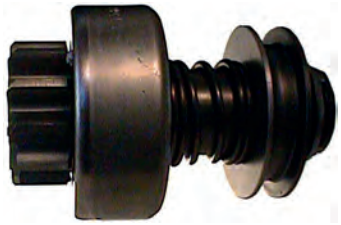
**Alternative no.:** 333523 5★

## 135569 Drive

**Replacing:** 1006209527

**Servicing:** 0001108013, 0001108032, 0001108045, 0001108046, 0001108066, B001111031, B001111105, B001111145, B001111146, B001111212

**ID** 11.00, **OD** 25.35, **OD/housing** 46.00, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

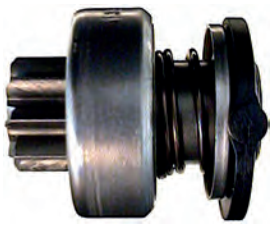


## 135664 Drive

**Replacing:** 2006209919, 2006209390, 2006209077

**Servicing:** 0001358021, 0001358026

**ID** 14.00, **OD** 39.80, **OD/housing** 60.00, **Total length** 92.50, **Splines A** 3, **No./teeth** 11, **Rotation** CR



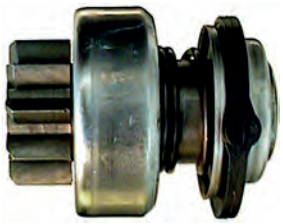
## 135713 Drive

**Replacing:** 1006209580

**Servicing:** 0001109001, 0001109002, 0001109006, 0001109007, B001116001

**ID** 12.00, **OD** 25.25, **OD/housing** 46.25, **Total length** 55.40, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333226 5★

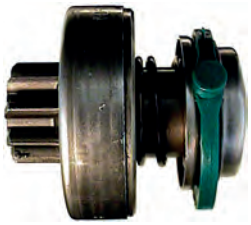


## 135714 Drive

**Replacing:** 1006209551

**Servicing:** 0001110033, B001117229

**ID** 12.00, **OD** 33.00, **OD/housing** 46.00, **Total length** 58.60, **Splines A** 10, **No./teeth** 10, **Rotation** ACR



## 135715 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209581

**Servicing:** 0001110066, 0001110067, 0001110108, B001117154

**ID** 12.00, **OD** 25.45, **OD/housing** 53.45, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 135715Z

## 135715Z Drive

**Replacing:** 1006209581

**ID** 12.00, **OD** 25.45, **OD/housing** 53.45, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 135715 5★

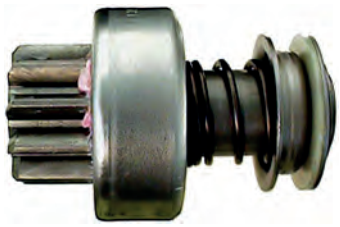
## 135716 Drive

**Replacing:** 9001081033, 1006209997, 1006209993, 1006209686, 1006209600, 1006209584

**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, 0001107009, 0001107012, 0001107013, 0001107015, 0001107017

**ID** 12.00, **OD** 25.20, **OD/housing** 46.20, **Total length** 53.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333194 5★

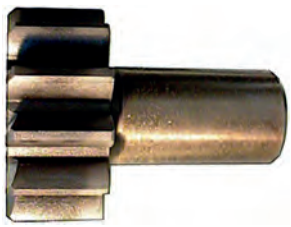


## 135801 Drive

**Replacing:** 2006209394, 2006209345, 2006209305, 2006209111

**Servicing:** 0001359002, 0001359008, 0001359020, 0001359034, 0001359045, 0001359069, 0001360013, 9000143101

**ID** 14.30, **OD** 40.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR



## 135860 5★ Drive

**Manufacturer:** Remy

**Replacing:** 9001084064, 2006382190

**Servicing:** 0001416061, 0001416065, 0001416077, 0001417061, 0001417062, 0001417063, 0001417065, 0001417067, 0001417075, 9000084007

**ID** 10.15, **OD** 46.65, **Total length** 61.00, **No./teeth** 12, **Rotation** CR



O.E.M. names and numbers are used for reference purposes only.

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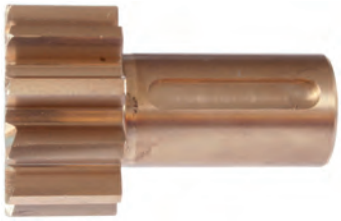
#Available while stock last, * Program development.



## 135861 5★ Drive

**Manufacturer:** Remy

**Replacing:** 2006383163

**Servicing:** 0001413005, 0001414001, 0001416045, 0001418011, B001450199

**ID** 10.30, **OD** 39.80, **Total length** 61.00, **No./teeth** 11

*Bronze.*

## 135911 Drive

**Replacing:** 9003336286

**Servicing:** 9000331411, 9003331411

**ID** 12.00, **OD** 28.50, **OD/housing** 54.35, **Total length** 55.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 135985 Drive

**Replacing:** 9001690067, 9001336240

**Servicing:** 0001112032, 9000333121, 9000692064

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 59.35, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 135989 Drive

**Replacing:** 2006209339, 2006209239, 2006209233

**Servicing:** 0001362023, 0001362025, B001812089

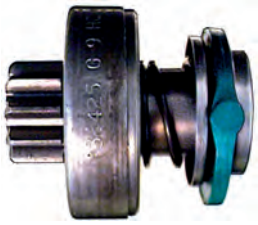
**ID** 14.45, **OD** 34.00, **OD/housing** 60.25, **Total length** 74.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 136285 Drive

**Replacing:** 2006209343, 2006209303, 2006209122, 2006209118

**Servicing:** 0001359021, 0001360015

**ID** 14.30, **OD** 35.00, **OD/housing** 60.00, **Total length** 90.75, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 136425 Drive

**Replacing:** 9002336205, 9002336200

**Servicing:** 0001218104, 0001218105, 0001218119, 0001218126, 0001218127, 0001218128, 0001218728, B001233039, B001233159, B001233160

**ID** 12.00, **OD** 26.80, **OD/housing** 54.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 136472 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209533

**Servicing:** 0001110007, 0001110008, B001117011

**ID** 12.00, **OD** 25.35, **OD/housing** 48.45, **Total length** 58.65, **Splines A** 10, **No./teeth** 9, **Rotation** CR

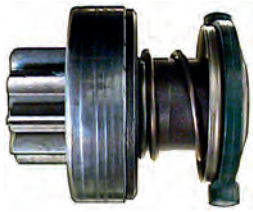
## 136509 Drive

**Replacing:** 2006209544, 2006209543, 2006209458

**Servicing:** 0001367072, 0001368069, 0001368083, 0001369007, 0001369019, 0001369025, B001816445, B001816446, B001816570, B001828071

**ID** 14.35, **OD** 36.25, **OD/housing** 59.20, **Total length** 91.45, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333504 5★



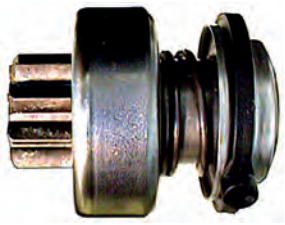
## 136614 Drive

**Replacing:** D001965593, 1006209941, 1006209592

**Servicing:** 0001107085, 0001110071, 0001110072, B001117153, B001117157, B001117161

**ID** 12.00, **OD** 29.25, **OD/housing** 48.85, **Total length** 58.25, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333544 5★

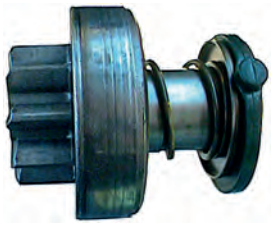


## 136723 Drive

**Replacing:** 1006209535, 1006209521

**Servicing:** 0001106001, 0001106002, 0001106004, 0001108005, 0001108006, 0001108021, 0001108147, 0001108203, 0001108535, 0001111001

**ID** 12.00, **OD** 25.20, **OD/housing** 46.40, **Total length** 58.65, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

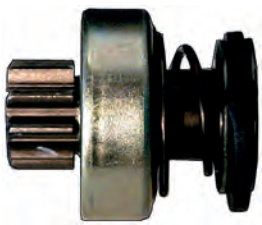


## 136743 Drive

**Replacing:** 9003336227, 9002336227, 9002336226, 6033AD2012

**Servicing:** 0001218168, 0001218768, 0001218820, 0001219012, 0001219112, 9000331432

**ID** 12.00, **OD** 36.25, **OD/housing** 54.45, **Total length** 63.65, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 136787 Drive

**Replacing:** 9003336223, 9002336223

**Servicing:** 0001218162, 0001218165, 0001218765

**ID** 12.00, **OD** 27.45, **OD/housing** 54.20, **Total length** 60.85, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333508 5★



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



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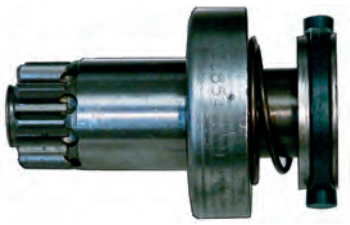


## 136854 Drive

**Replacing:** 1006209699, 1006209648, 1006209621

**Servicing:** 0001124001, 0001124002, 0001124005, 0001124006, 0001125001, 0001125002, 0001125007, 0001125008, 0001125011, 0001125012

**ID** 13.20, **OD** 27.75, **OD/housing** 53.60, **Total length** 83.25, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

*Dust cover kit: HC-CARGO 230091.*

**Alternative no.:** 333177 5★, 136854Z, 136854ZZ

## 136854Z Drive

**Replacing:** 1006209699, 1006209648, 1006209621

**ID** 13.54, **OD** 27.87, **OD/housing** 52.16, **Total length** 83.50, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

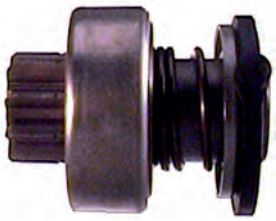
**Alternative no.:** 333177 5★, 136854, 136854ZZ

## 136854ZZ Drive

**Replacing:** 1006209880, 1006209699, 1006209648, 1006209621

**ID** 11.00, **OD** 27.85, **OD/housing** 54.40, **Total length** 82.40, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 333177 5★, 136854, 136854Z

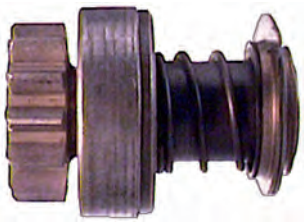


## 136888 Drive

**Replacing:** 1006209561

**Servicing:** 0001108068, 0001108069, 0001108070, 0001108103, 0001108104, 0001108105, 0001108123, 0001108134, 0001108135, 0001108160

**ID** 11.00, **OD** 25.35, **OD/housing** 46.25, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

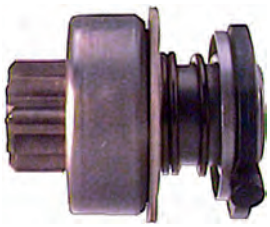


## 136912 Drive

**Replacing:** 1006209474

**Servicing:** 0001314031, B001315132

**ID** 12.00, **OD** 40.35, **OD/housing** 47.00, **Total length** 63.85, **Splines A** 10, **No./teeth** 13, **Rotation** ACR

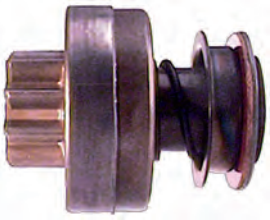


## 136925 Drive

**Replacing:** 1006209564

**Servicing:** 0001108075, 0001108091, 0001108092, 0001108151, 0001108154, B001111266, B001111269, B001111306

**ID** 12.00, **OD** 25.30, **OD/housing** 46.35, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 136985 Drive

**Replacing:** 2006209489, 2006209488

**Servicing:** 0001362094, 0001362099, 0001366005, 0001366006, 0001366013, 0001366014, 9000143204, B001811040, B001812383, B001812418

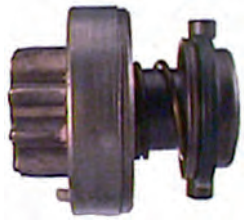
**ID** 14.30, **OD** 34.30, **OD/housing** 60.00, **Total length** 74.15, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 137170 Drive

**Replacing:** 1006209927, 1006209626, 1006209574

**Servicing:** 0001110059, 0001110073, 0001110081, B001117272, B001117274

**ID** 12.00, **OD** 28.00, **OD/housing** 47.75, **Total length** 108.90, **Splines A** 10, **No./teeth** 10, **Rotation** ACR



## 137171 Drive

**Replacing:** 9002336218

**Servicing:** 0001218152, B001233216

**ID** 12.00, **OD** 36.65, **OD/housing** 57.65, **Total length** 62.75, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 137199 Drive

**Replacing:** 2006381410, 2006381010

**Servicing:** 0001401007, 0001401025, 0001401049, 0001401051, 0001401061, 0001402002, 0001402008, 0001402018, 0001402050, 0001402054

**ID** 14.60, **OD** 34.25, **Total length** 120.00, **Splines A** 3, **No./teeth** 9

*Bronze.*

## 137231 Drive

**Replacing:** 2006209542, 2006209540

**Servicing:** 0001364400, 0001364402, 0001368313, 0001368318

**ID** 14.30, **OD** 41.50, **OD/housing** 60.00, **Total length** 90.45, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333232 5★



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#Available while stock last, * Program development.

## 137265 Drive

**Replacing:** 1006209933, 1006209587

**Servicing:** 0001112017, B001180054

**ID** 12.00, **OD** 26.90, **OD/housing** 47.00, **Total length** 54.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 137275 Drive

**Replacing:** 9002336230

**Servicing:** 0001218172, 0001218772

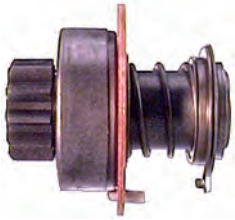
**ID** 12.00, **OD** 35.35, **OD/housing** 54.40, **Total length** 64.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 137279 Drive

**Replacing:** 1006209914, 1006209482

**Servicing:** 0001314047, 0001316012, 0001316013, B001315186, B001328030

**ID** 12.00, **OD** 33.00, **OD/housing** 54.40, **Total length** 75.15, **Splines A** 10, **No./teeth** 10, **Rotation** CR



## 137299 Drive

**Replacing:** 1006209432, 1006209082, 1003209432

**Servicing:** 0001315002, B001317004

**ID** 12.00, **OD** 29.75, **OD/housing** 47.75, **Total length** 64.10, **Splines A** 10, **No./teeth** 11, **Rotation** ACR

## 137310 Drive

**Replacing:** 9003336292

**Servicing:** 9000331420

**ID** 12.00, **OD** 32.00, **OD/housing** 53.65, **Total length** 58.00, **Splines A** 10, **No./teeth** 12, **Rotation** CR

## 137480 Drive

**Replacing:** 1006209758, 1006209649, 1006209628

**Servicing:** 0001123003, 0001124003, 0001124004, 0001124013, 0001124014, 0001125005, 0001125006, 0001125009, 0001125035, 0001125036

**ID** 11.20, **OD** 25.35, **OD/housing** 53.70, **Total length** 83.65, **Splines A** 16, **No./teeth** 9, **Rotation** ACR

*Dust cover kit: HC-CARGO 230338.*

**Alternative no.:** 333179 5★, 137480Z, 137480ZZ

## 137480Z Drive

**Replacing:** 1006209758, 1006209649, 1006209628

**ID** 13.58, **OD** 25.27, **OD/housing** 52.17, **Total length** 84.82, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

*Dust cover kit: HC-CARGO 230338.*

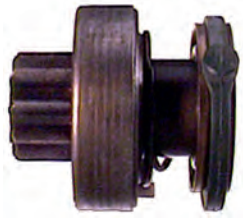
**Alternative no.:** 333179 5★, 137480, 137480ZZ

## 137480ZZ Drive

**Replacing:** 1006209758, 1006209649, 1006209628

**ID** 11.00, **OD** 25.40, **OD/housing** 54.50, **Total length** 81.45, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 333179 5★, 137480, 137480Z



## 137481 Drive

**Replacing:** 1006209937, 1006209815, 1006209787, 1006209690, 1006209677, 1006209672, 1006209667, 1006209638

**Servicing:** 0001107037, 0001107048, 0001107054, 0001107055, 0001107067, 0001107068, 0001107069, 0001107072, 0001107073, 0001107074

**ID** 12.00, **OD** 25.30, **OD/housing** 46.90, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333178 5★, 137481Z

## 137481Z Drive

**Replacing:** 1006209937, 1006209815, 1006209690, 1006209677, 1006209672, 1006209638, 1006209618

**ID** 12.00, **OD** 25.30, **OD/housing** 46.25, **Total length** 50.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333178 5★, 137481



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#Available while stock last, * Program development.



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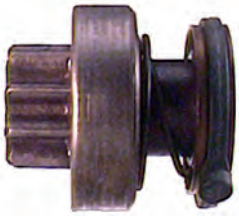
## 137483 Drive

**Replacing:** 1006210156, 1006209944, 1006209777, 1006209715, 1006209706, 1006209696, 1006209692, 1006209633

**Servicing:** 0001106011, 0001106014, 0001106015, 0001107047, 0001107063, 0001107077, 0001107089, 0001107091, 0001107097, 0001107098

**ID** 12.00, **OD** 25.00, **OD/housing** 46.35, **Total length** 49.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333191 5★



## 137888 Drive

**Replacing:** 1006209983, 1006209975, 1006209968, 1006209660, 1006209634

**Servicing:** 0001107062, 0001108157, 0001108169, 0001108190, 0001108196, 0001108230, 0001108231, 0001108245, 0001109204, 0001109389

**ID** 12.00, **OD** 28.85, **OD/housing** 46.40, **Total length** 51.25, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333192 5★

## 137889 Drive

**Replacing:** 1006209637

**Servicing:** 0001109015, 0001109052, 0001109055, 0001109062, 0001109068

**ID** 12.00, **OD** 27.80, **OD/housing** 54.25, **Total length** 57.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333199 5★

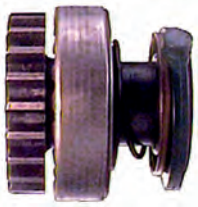
## 137890 Drive

**Replacing:** 1006209946, 1006209759, 1006209643, 1006209636

**Servicing:** 0001124007, 0001124008, 0001124011, 0001124012, 0001124018, 0001124019, 0001124022, 0001124023, 0001124024, 0001124025

**ID** 11.20, **OD** 25.40, **OD/housing** 53.60, **Total length** 93.50, **Splines A** 16, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333181 5★, 137890Z



## 137891 Drive

**Replacing:** 1006209652

**Servicing:** 0001107059, 0001107082

**ID** 12.00, **OD** 49.45, **OD/housing** 53.40, **Total length** 48.65, **Splines A** 10, **No./teeth** 21, **Rotation** CR

**Alternative no.:** 137891Z

## 137891Z Drive

**Replacing:** 1006209652

**ID** 12.00, **OD** 49.70, **OD/housing** 54.00, **Total length** 47.00, **Splines A** 10, **No./teeth** 21, **Rotation** CR

**Alternative no.:** 137891

## 137981 Drive

**Replacing:** 1006209929, 1006209629

**Servicing:** 0001107043, 0001107087, 0001113010, 0001113017

**ID** 12.00, **OD** 26.70, **OD/housing** 46.15, **Total length** 50.40, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333216 5★

## 138233 Drive

**Replacing:** 1006209613

**Servicing:** 0001107031, 0001107032, 0001107049, 6004AA0018, 9007045009, 9007045018, 9007045020

**ID** 11.00, **OD** 27.00, **OD/housing** 46.25, **Total length** 54.30, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 138252 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209602

**Servicing:** 0001107024, 0001115042, B001110080

**ID** 12.00, **OD** 29.60, **OD/housing** 47.70, **Total length** 53.45, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 138308 Drive

**Replacing:** 2008109203, 2006202011, 2006202010

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371013

**ID** 15.90, **OD** 41.25, **OD/housing** 58.00, **Total length** 118.00, **Splines A** 19, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 138308ZZ



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## 138308ZZ Drive

**Replacing:** 2008109203, 2006202011, 2006202010

**Servicing:** 0001371004, 0001371006, 0001371007, 0001371008, 0001372001, 0001372002, 0001372005, 0001372006, 0001372007

**ID** 15.90, **OD** 41.50, **OD/housing** 58.00, **Total length** 118.00, **Splines A** 19, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 138308

## 138316 Drive

**Replacing:** 2006209432

**Servicing:** 0001367054, B001816187

**ID** 14.30, **OD** 40.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 138322 Drive

**Replacing:** 1006209642

**Servicing:** 0001109014, 0001115001

**ID** 12.00, **OD** 27.70, **OD/housing** 53.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333214 5★

## 138332 Drive

**Replacing:** 9001453601

**Servicing:** 0001371001, 9000453064, 9000453065, 9000453067, 9000453068, B001850025, B001851012

**ID** 15.85, **OD** 46.15, **OD/housing** 58.00, **Total length** 118.30, **Splines A** 19, **No./teeth** 12, **Rotation** CR

## 138867 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209479

**Servicing:** 0001362060, 0001362090, B001812178

**ID** 14.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 74.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 138874 Drive

**Replacing:** 1006209932, 1006209588

**Servicing:** 0001112018, B001180055

**ID** 12.00, **OD** 27.00, **OD/housing** 46.50, **Total length** 69.60, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 138875 Drive

**Replacing:** F000AL1681, F000AL1186, 1006209762, 1006209641

**Servicing:** 0001121001, 0001121002, 0001121003, 0001121030, 0001121031, 0001121032, 0001121033, 0001121034, 0001121035

**ID** 11.10, **OD** 25.20, **OD/housing** 47.65, **Total length** 82.85, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333183 5★, 138875Z

## 138875Z Drive

**Replacing:** F000AL1681, F000AL1186, 1006209762, 1006209641

**ID** 11.00, **OD** 25.30, **OD/housing** 46.30, **Total length** 81.80, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333183 5★, 138875

## 138876# Drive

**Replacing:** 9001336320

**Servicing:** 9000334101, 9003334101

**ID** 12.00, **OD** 27.25, **OD/housing** 47.75, **Total length** 62.00, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

## 138946 Drive

**Replacing:** 1006209420

**Servicing:** 0001311056, 0001314016, B001315028, B001324012

**ID** 12.00, **OD** 34.40, **OD/housing** 47.00, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 138948 Drive

**Replacing:** 9002336208

**Servicing:** 0001218809, 9000331419

**ID** 12.00, **OD** 25.00, **OD/housing** 54.35, **Total length** 65.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 139013 Drive

**Replacing:** 1006209928, 1006209627, 1006209606, 1006209605

**Servicing:** 0001108137, 0001108144, 0001108156, 0001109040, 0001110090, 0001110120, B001116118, B001117613

**ID** 12.00, **OD** 25.25, **OD/housing** 46.50, **Total length** 59.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

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## 139056 Drive

**Replacing:** 9002336236, 6033AD4148, 6033AD4034, 6033AD3850, 6033AD3244, 6033AD3111, 6033AD3108, 6033AD3006

**Servicing:** 0001230001, 0001230006, 0001230012, 0001230013, 0001230014, 0001230027, 0001231002, 0001231003, 0001231005, 0001231018

**ID** 14.30, **OD** 34.50, **OD/housing** 59.00, **Total length** 82.25, **Splines A** 10, **No./teeth** 9, **Rotation** CR

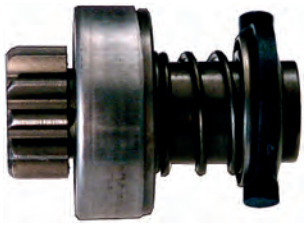
**Alternative no.:** 139056Z

## 139056Z Drive

**Replacing:** 9002336236, 6033AD4148, 6033AD4034, 6033AD3850, 6033AD3244, 6033AD3111, 6033AD3108, 6033AD3006

**ID** 14.45, **OD** 34.80, **OD/housing** 60.00, **Total length** 82.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 139056



## 139336 Drive

**Replacing:** 1006209555

**Servicing:** 0001317024, B001329044

**ID** 12.00, **OD** 29.00, **OD/housing** 46.30, **Total length** 64.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 139458 Drive

**Replacing:** 9002336225

**Servicing:** 0001218166, 0001218766

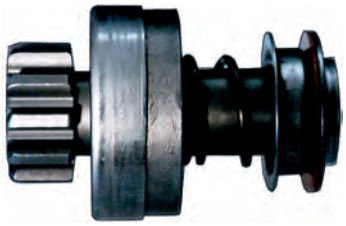
**ID** 11.75, **OD** 37.00, **OD/housing** 54.00, **Total length** 58.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 139503 Drive

**Replacing:** 1006209107, 1006209073

**Servicing:** 0001214002

**ID** 12.00, **OD** 30.50, **OD/housing** 48.00, **Total length** 68.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



## 139558 Drive

**Replacing:** 2006209491

**Servicing:** 0001362052, 0001367016, 0001367064, 0001367065, 9000143410, 9000143600, 9000143602, 9000143603, 9000143604, B001812210

**ID** 14.40, **OD** 39.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 139850 Drive

**Replacing:** 1006209922, 1006209910, 1006209583, 1006209565, 1006209558, 1006209553

**Servicing:** 0001107005, 0001107006, 0001108059, 0001108060, 0001108076, 0001108077, 0001108096, 0001108097, 0001112010, 0001112011

**ID** 12.00, **OD** 27.70, **OD/housing** 46.80, **Total length** 79.50, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 333221 5★

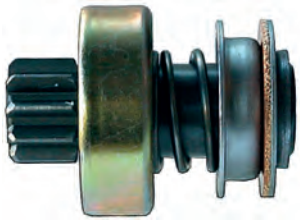
## 139954 Drive

**Replacing:** 1006209675, 1006209670, 1006209607

**Servicing:** 0001106019, 0001107030, 0001107066, 0001107075, 0001107078, 0001107079, 0001108181, 9000694035, 9000694044, B001110240

**ID** 12.00, **OD** 29.25, **OD/housing** 46.85, **Total length** 49.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333208 5★



## 230144 Drive

**Replacing:** 2006209503, 2006209501, 2006209477

**Servicing:** 0001363106, 0001363119, 0001363120, 0001363123, B001813206, B001813221, B001813239, B001813252

**ID** 12.00, **OD** 27.45, **OD/housing** 53.40, **Total length** 71.65, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 230144Z

## 230144Z Drive

**Replacing:** 2006209503, 2006209501, 2006209477

**ID** 12.00, **OD** 27.45, **OD/housing** 54.00, **Total length** 70.65, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 230144



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## 230145 Drive

**Replacing:** 2006209535

**Servicing:** 0001367025, 0001368004, B001816061, B001816062

**ID** 14.30, **OD** 39.75, **OD/housing** 60.00, **Total length** 90.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 230159 Drive

**Replacing:** 1006209433, 1006209083

**Servicing:** 0001314003, B001315015

**ID** 12.00, **OD** 34.00, **OD/housing** 47.70, **Total length** 64.15, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 230197 Drive

**Replacing:** 1006209419

**Servicing:** 0001311054, B001324007

**ID** 12.00, **OD** 46.85, **OD/housing** 53.75, **Total length** 63.70, **Splines A** 10, **No./teeth** 13, **Rotation** CR

## 230336 Drive

**Replacing:** 9003336289, 9002336219

**Servicing:** 0001218118, 0001218176, 0001218776, 9000331201, 9000331203, 9000331415, B001233200

**ID** 12.00, **OD** 35.00, **OD/housing** 58.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333511 5★

## 230339 Drive

**Replacing:** 1007010105, 1006209757, 1006209657

**Servicing:** 0001121006, 0001121007, 0001121011, 0001121028, 0001121029, F004A94029

**ID** 11.00, **OD** 25.35, **OD/housing** 46.20, **Total length** 82.25, **Splines A** 16, **No./teeth** 9, **Rotation** ACR

*Dust cover kit: HC-CARGO 230338.*

**Alternative no.:** 333200 5★

## 230340 Drive

**Replacing:** F00MAL1100, F000AL1100, 1006209680

**Servicing:** 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121018, 0001121019, 0001121024, 0001121025

**ID** 11.20, **OD** 27.75, **OD/housing** 46.35, **Total length** 82.85, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 333215 5★

## 230349 Drive

**Replacing:** 1006209620

**Servicing:** 0001109012, 0001109047

**ID** 12.00, **OD** 34.00, **OD/housing** 47.75, **Total length** 58.80, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

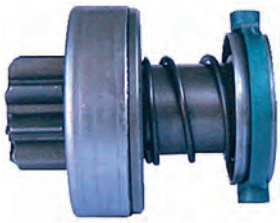
## 230350 Drive

**Replacing:** 1006209622

**Servicing:** 0001110110

**ID** 12.00, **OD** 39.80, **OD/housing** 53.65, **Total length** 59.00, **Splines A** 10, **No./teeth** 13, **Rotation** CR

**Alternative no.:** 333229 5★



## 230351 Drive

**Replacing:** 9002336216

**Servicing:** 0001218143, 0001218144, 0001218171, 0001218771, B001233189, B001233194

**ID** 12.00, **OD** 29.60, **OD/housing** 53.70, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 230352 Drive

**Replacing:** 1006209646

**Servicing:** 0001109026

**ID** 12.00, **OD** 29.00, **OD/housing** 54.00, **Total length** 51.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333553 5★

## 230546 Drive

**Replacing:** 9003336287, 9002336287, 9002336224

**Servicing:** 0001218153, 0001218157, 0001218757, 9000331414

**ID** 12.00, **OD** 28.80, **OD/housing** 54.50, **Total length** 61.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.



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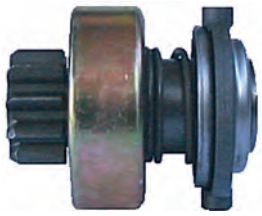


## 230639 Drive

**Replacing:** 1006209603

**Servicing:** 0001108128, B001111390

**ID** 12.00, **OD** 28.00, **OD/housing** 48.80, **Total length** 57.75, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 230789 Drive

**Replacing:** 2006209468

**Servicing:** 0001363108, 0001366025, B001811056, B001813212

**ID** 14.30, **OD** 33.40, **OD/housing** 60.00, **Total length** 72.90, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 230828 Drive

**Replacing:** 1006209987, 1006209950, 1006209802, 1006209645

**Servicing:** 0001109025, 0001109030, 0001109033, 0001109035, 0001109045, 0001109200, 0001109201, 0001109265, 0001109266, 0001109267

**ID** 12.00, **OD** 29.25, **OD/housing** 54.35, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333571 5★

## 230834 Drive

**Replacing:** 1006209671

**Servicing:** 0001108180, 0001108182, 0001108186

**ID** 12.00, **OD** 29.00, **OD/housing** 50.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333180 5★, 230834Z

## 230834Z Drive

**Replacing:** 1006209671

**ID** 12.00, **OD** 29.35, **OD/housing** 50.10, **Total length** 51.50, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333180 5★, 230834

## 230835 Drive

**Replacing:** F005M10053, F000AL1209, 1006209678, 1006209635, 1006209631

**Servicing:** 0001108183, 0001108217, 0001108218, 0001109036, 0001109250, 0001110112, 0001115001, 0001115008, F000AL0101, F000AL0104

**ID** 12.00, **OD** 27.75, **OD/housing** 46.30, **Total length** 50.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333189 5★

## 230961 Drive

**Replacing:** 2006382188, 2006382182, 2006382178

**Servicing:** 0001410064, 0001410097, 0001411004, 0001411019, 0001415023, 0001416029, 0001416037, 0001416046, 0001416063, 0001417015

**ID** 10.20, **OD** 39.10, **Total length** 61.00, **No./teeth** 10, **Rotation** CR

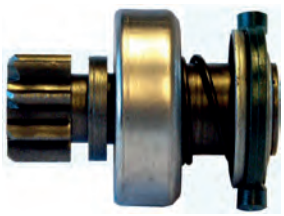
## 231009 Drive

**Replacing:** 1006209650

**Servicing:** 0001109029

**ID** 12.00, **OD** 29.30, **OD/housing** 46.00, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333524 5★



## 231015 Drive

**Replacing:** 1006209931, 1006209590

**Servicing:** 0001107011, 0001107039, B001110092

**ID** 12.00, **OD** 27.00, **OD/housing** 48.30, **Total length** 65.80, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 231585 Drive

**Replacing:** 2006209903, 2006209187, 2006209033, 2006209003

**Servicing:** 0001354009

**ID** 14.45, **OD** 46.80, **OD/housing** 59.00, **Total length** 90.40, **Splines A** 3, **No./teeth** 13, **Rotation** CR

## 231756 Drive

**Replacing:** 9002336237, 6033ADO200, 6033ADO184, 6033AD4240, 6033AD4119, 6033AD4019, 6033AD3338, 6033AD3334

**Servicing:** 0001230004, 0001230008, 0001231001, 0001231009, 0001231012, 0001231016, 0001231017, 0001231026, 0001231027, 0001231039

**ID** 14.35, **OD** 39.55, **OD/housing** 62.20, **Total length** 83.80, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333185 5★

## 231884 Drive

**Replacing:** 2006209282, 1006209120, 1006209054, 1006209050

**Servicing:** 0001212001, 0001215001, 0001215002, B001223001

**OD** 25.30, **OD/housing** 47.75, **Total length** 98.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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## 231885 Drive

**Replacing:** 2006209434

**Servicing:** 0001367061, B001816377

**ID** 14.30, **OD** 29.20, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 231886 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209329

**Servicing:** 0001363103, 0001366010, B001811032, B001813213

**ID** 14.25, **OD** 46.50, **OD/housing** 60.00, **Total length** 73.50, **Splines A** 10, **No./teeth** 13, **Rotation** ACR

## 231896 Drive

**Replacing:** 1006209704

**Servicing:** 0001116001

**ID** 12.00, **OD** 25.20, **OD/housing** 46.30, **Total length** 46.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333210 5★

## 231897 Drive

**Replacing:** 1006209924, 1006209601

**Servicing:** 0001109008, 0001109043, B001116015

**ID** 12.00, **OD** 29.50, **OD/housing** 53.65, **Total length** 70.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 231898 Drive

**Replacing:** 6033AD0061

**Servicing:** 0001223002

**ID** 12.00, **OD** 35.35, **OD/housing** 54.45, **Total length** 64.25, **Splines A** 16, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333509 5★

## 232362 Drive

**Replacing:** 9002336233

**Servicing:** 0001218819, 9000331431

**ID** 12.00, **OD** 34.00, **OD/housing** 60.00, **Total length** 68.75, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 232481 Drive

**Replacing:** 1006209542

**Servicing:** 0001110018, B001117046

**ID** 12.00, **OD** 30.00, **OD/housing** 48.00, **Total length** 58.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 232623 Drive

**Replacing:** 1006209943, 1006209681

**Servicing:** 0001125016, 0001125017, 0001125018, 0001125019, 0001125046, 0001125047, 0001125048, 0001125049, 0001125605, 0001125606

**ID** 12.00, **OD** 27.94, **OD/housing** 54.50, **Total length** 103.50, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 333564 5★, 335236

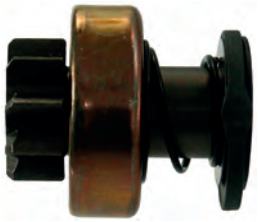
## 232632 Drive

**Replacing:** 2006202000

**Servicing:** 0001420001, 0001420003, 0001420004, 0001420005, 0001420009, 0001420012, 0001420013, 0001420014, 0001420015, 0001420024

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Rotation** CR

**Alternative no.:** 333858



## 233719 Drive

**Replacing:** 6033AD0414

**Servicing:** 0001223013

**ID** 11.75, **OD** 36.00, **OD/housing** 53.00, **Total length** 58.00, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333206 5★

## 233720 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209947, 1006209751, 1006209653

**Servicing:** 0001109041, 0001109048, 0001109061, 0001109063, 0001109252, 0001109256, 0001109264

**ID** 12.00, **OD** 25.35, **OD/housing** 53.50, **Total length** 50.80, **Splines A** 10, **No./teeth** 9, **Rotation** CR



# STARTER COMPONENTS

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## 233722 Drive

**Replacing:** 6033AD4243, 6033AD0129

**Servicing:** 0001231004, 0001263012

**ID** 14.30, **OD** 46.25, **OD/housing** 59.50, **Total length** 84.35, **Splines A** 10, **No./teeth** 12, **Rotation** CR

**Alternative no.:** 333500 5★

## 233723 Drive

**Replacing:** 6033AD3106, 6033AD0267

**Servicing:** 0001230002

**ID** 14.30, **OD** 39.80, **OD/housing** 60.00, **Total length** 83.40, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333599 5★

## 233828 Drive

**Replacing:** 1006209656

**Servicing:** 0001109028, 0001109031, 0001109419, 0001109420, 0001110132, F000AL0108

**ID** 12.00, **OD** 34.40, **OD/housing** 50.00, **Total length** 50.60, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333193 5★

## 233829 Drive

**Replacing:** 1006209669

**Servicing:** 0001109034

**ID** 12.00, **OD** 38.85, **OD/housing** 53.25, **Total length** 51.50, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 233829Z

## 233829Z Drive

**Replacing:** 1006209669

**ID** 12.00, **OD** 38.75, **OD/housing** 54.15, **Total length** 51.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233829

## 233831 Drive

**Replacing:** 1006209647, 1006209630

**Servicing:** 0001107046, 0001107107, 0001108168, 0001111005

**ID** 12.00, **OD** 35.30, **OD/housing** 48.85, **Total length** 48.60, **Splines A** 10, **No./teeth** 11, **Rotation** ACR

## 233834 Drive

**Replacing:** 9002336217, 9002334025

**Servicing:** 0001218148, 0001218149, B001233270

**ID** 12.00, **OD** 25.30, **OD/housing** 53.55, **Total length** 65.30, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 233835 Drive

**Replacing:** 6033AD1002, 6033AD0077

**Servicing:** 0001223003, 0001223007, 0001223024

**ID** 12.00, **OD** 35.00, **OD/housing** 54.50, **Total length** 64.20, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333204 5★, 335233

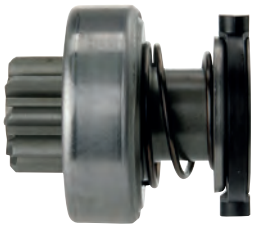
## 233836 Drive

**Replacing:** 6033AD0004

**Servicing:** 0001223001

**ID** 12.00, **OD** 29.00, **OD/housing** 57.35, **Total length** 59.25, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 233836Z, 333593 5★



## 233836Z Drive

**Replacing:** 6033AD0004

**ID** 12.00, **OD** 29.20, **OD/housing** 54.25, **Total length** 58.70, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233836

## 233837 Drive

**Replacing:** 6033AD3130, 6033AD3120, 6033AD0148

**Servicing:** 0001230007, 0001230009, 0001230010, 0001230023, 0001231010, 0001231011

**ID** 14.30, **OD** 34.35, **OD/housing** 60.00, **Total length** 84.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333219 5★

## 233838 Drive

**Replacing:** 1006209930, 1006209632

**Servicing:** 0001112036

**ID** 12.00, **OD** 26.00, **OD/housing** 47.85, **Total length** 59.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



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## 233839 Drive

**Replacing:** 1006209659

**Servicing:** 0001107064

**ID** 12.00, **OD** 34.70, **OD/housing** 47.70, **Total length** 51.65, **Splines A** 10, **No./teeth** 13, **Rotation** CR

**Alternative no.:** 333184 5★

## 233840 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209683

**Servicing:** M14, 0001107083

**ID** 12.00, **OD** 34.20, **OD/housing** 47.40, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 233841 Drive

**Replacing:** 1006209753

**Servicing:** 0001106016

**ID** 12.00, **OD** 25.65, **OD/housing** 47.65, **Total length** 68.70, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 233842 Drive

**Replacing:** 1006209466

**Servicing:** 0001314025, 0001314032, 0001314043, 0001314045, B001315122, B001315177, B001315181

**ID** 12.00, **OD** 29.60, **OD/housing** 48.00, **Total length** 63.65, **Splines A** 10, **No./teeth** 9, **Rotation** CR

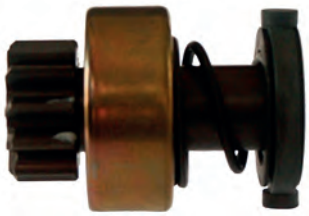
## 233947 Drive

**Replacing:** 6033AD1062

**Servicing:** 0001223016, 0001223021

**ID** 12.00, **OD** 34.50, **OD/housing** 54.40, **Total length** 64.00, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333212 5★



## 233948 Drive

**Replacing:** 6033AD0250

**Servicing:** 0001231013, 0001231036, 0001231040, 0001231041

**ID** 14.35, **OD** 41.50, **OD/housing** 60.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

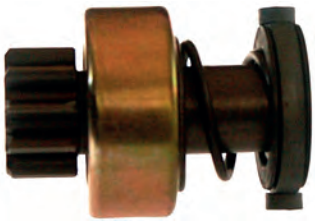
**Alternative no.:** 333187 5★

## 234065 Drive

**Replacing:** 9002336232, 2002336232

**Servicing:** 0001218173

**ID** 12.10, **OD** 25.30, **OD/housing** 53.00, **Total length** 58.30, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 234087 Drive

**Replacing:** 9006033306, 9006033136, 6033AD0306, 6033AD0243

**Servicing:** 0001231008, 0001231029, 0001231035

**ID** 14.30, **OD** 37.70, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333218 5★

## 234124 Drive

**Replacing:** 1006209804

**Servicing:** 0001107407, 0001107410, 0001107417, 0001107418, 0001107499, 0001107500, 0001107501, 0001107502, 0001108408, 0001108430

**ID** 11.10, **OD** 26.80, **OD/housing** 45.35, **Total length** 48.50, **Splines A** 16, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333171 5★, 234124Z

## 234124Z Drive

**Replacing:** 1006209804

**ID** 11.00, **OD** 26.80, **OD/housing** 46.25, **Total length** 48.10, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333171 5★, 234124

## 234141 Drive

**Replacing:** 1006209960, 1006209949, 1006209783, 1006209755

**Servicing:** 0001124020, 0001124021, 0001125053, 0001125054, 0001125600, 0001125601, 0001125607, 0001125608

**ID** 11.30, **OD** 29.00, **OD/housing** 53.70, **Total length** 92.55, **Splines A** 16, **No./teeth** 9, **Rotation** CR

## 234158 Drive

**Replacing:** 1006209936, 1006209791, 1006209666

**Servicing:** 0001109021, 0001109022, 0001109066, 0001109067, 0001109258, 0001109259, 0001109260, 0001109261, 0001109319, 0001109320

**ID** 12.00, **OD** 32.70, **OD/housing** 53.50, **Total length** 61.40, **Splines A** 9, **No./teeth** 10, **Rotation** CR



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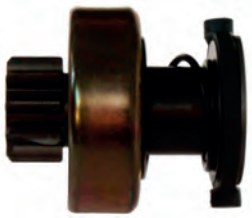
O.E.M. names and numbers are used for reference purposes only.



## 234168 Drive

**Replacing:** 6033AD0218

**Servicing:** 0001223005

**ID** 12.00, **OD** 27.80, **OD/housing** 53.00, **Total length** 60.65, **Splines A** 16, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333222 5★

## 234242 Drive

**Replacing:** 1006209661

**Servicing:** 0001107102, 0001108197, 0001108205, 0001108213, 0001108214, 0001108222, 0001108223, 0001115005, 0001115006, 0001115009

**ID** 12.00, **OD** 27.80, **OD/housing** 50.00, **Total length** 71.00, **Splines A** 16, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333224 5★

## 234247 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209846, 1006209807, 1006209801, 1006209793

**Servicing:** 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107408, 0001107409, 0001107421, 0001107422

**ID** 11.00, **OD** 25.50, **OD/housing** 45.00, **Total length** 48.00, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 234247Z

## 234247Z Drive

**Replacing:** 1006209846, 1006209807, 1006209801, 1006209793

**ID** 11.00, **OD** 25.20, **OD/housing** 46.25, **Total length** 48.35, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234247 5★

## 234271 Drive

**Replacing:** 1006209639

**Servicing:** 0001109017

**ID** 12.00, **OD** 35.75, **OD/housing** 53.00, **Total length** 59.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 234293 Drive

**Replacing:** 1006209760, 1006209655

**Servicing:** 0001125055, 0001125056, 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512

**ID** 13.60, **OD** 26.00, **Total length** 81.00, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333211 5★

## 234403 Drive

**Replacing:** 9003336282

**Servicing:** 0001218161, 0001218808, 9000218161, 9000331418

**ID** 12.00, **OD** 34.35, **OD/housing** 54.35, **Total length** 61.80, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 234534 Drive

**Replacing:** 1006209440

**Servicing:** 0001314008, B001315050

**ID** 12.00, **OD** 29.00, **OD/housing** 47.15, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 234535 Drive

**Replacing:** 1006209812

**Servicing:** 0001108400, F004A94000, F004A94001

**ID** 10.90, **OD** 27.80, **OD/housing** 45.00, **Total length** 47.80, **Splines A** 16, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333195 5★

## 234785 Drive

**Replacing:** 1006209806

**Servicing:** 0001120400, 0001120401, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120409, 0001120410, 0001120411

**ID** 12.00, **OD** 27.94, **OD/housing** 53.50, **Total length** 83.10, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 333551 5★

## 234806 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209658, 1006209595

**Servicing:** 0001107060, 0001108118, 0001108119

**ID** 11.90, **OD** 30.00, **OD/housing** 47.70, **Total length** 53.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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## 234807 Drive

**Replacing:** 1006209925, 1006209481

**Servicing:** 0001314046, 0001314049, 0001316011, B001315184, B001328029

**ID** 12.00, **OD** 26.00, **OD/housing** 53.65, **Total length** 75.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 234862 Drive

**Replacing:** 9002336238

**Servicing:** 0001219014

**ID** 12.00, **OD** 34.50, **OD/housing** 53.35, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 234901 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD0351

**Servicing:** 0001223014

**ID** 12.00, **OD** 27.50, **OD/housing** 57.30, **Total length** 60.00, **Splines A** 16, **No./teeth** 10, **Rotation** CR

## 234902 Drive

**Replacing:** 1006210144, 1006209959, 1006209792, 1006209779

**Servicing:** 0001108202, 0001108224, 0001108234, 0001108235, 0001108239, 0001108240, 0001109204, 0001109389, 0001115021, 0001115025

**ID** 12.00, **OD** 29.00, **OD/housing** 47.65, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333579 5★

## 234946 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209958, 1006209814, 1006209805

**Servicing:** 0001107411, 0001107425, 0001107490, 0001107491

**ID** 11.05, **OD** 29.60, **OD/housing** 45.15, **Total length** 48.00, **Splines A** 16, **No./teeth** 9, **Rotation** CR

## 234971 Drive

**Replacing:** 2006209461

**Servicing:** 0001368077, B001816486

**ID** 14.25, **OD** 35.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333861

## 235200 Drive

**Replacing:** 1006209714

**Servicing:** 0001116006

**ID** 12.00, **OD** 27.00, **OD/housing** 47.00, **Total length** 48.10, **Splines A** 10, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 333872

## 235290 Drive

**Replacing:** 1006209820, 1006209810, 1006209794

**Servicing:** 0001107415, 0001107431, 0001107432, 0001107438, 0001107439, 6004AA0027

**ID** 11.00, **OD** 27.15, **OD/housing** 47.25, **Total length** 48.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 333542 5★

## 235425 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209768

**Servicing:** 0001106018, 000110608

**ID** 12.00, **OD** 26.00, **OD/housing** 25.00, **Total length** 56.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 235429 Drive

**Replacing:** 6033AD3109, 6033AD3028

**Servicing:** 0001230015, 0001230016, 0001230028, 0001230029

**ID** 14.30, **OD** 60.00, **OD/housing** 42.00, **Total length** 99.00, **Splines A** 10, **No./teeth** 13, **Rotation** CR

## 235440 Drive

**Replacing:** 1006209695

**Servicing:** 0001107088, 9001107088, F000AL0106

**ID** 12.00, **OD** 34.90, **OD/housing** 34.50, **Total length** 50.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333186 5★, 235440Z

## 235440Z Drive

**Replacing:** 1006209695

**ID** 12.00, **OD** 34.90, **OD/housing** 46.25, **Total length** 49.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333186 5★, 235440



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



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## 235445 Drive

**Replacing:** 2006209089

**Servicing:** 0001354094

**ID** 14.40, **OD** 37.95, **OD/housing** 53.75, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 235701 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209930, 2006209536

**Servicing:** 0001367074, 0001367300, 0001367301, 0001367303, 0001368300, 0001368307, 0001368309, 0001368315

**ID** 14.25, **OD** 34.23, **OD/housing** 59.77, **Total length** 91.15, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 235798 Drive

**Replacing:** 1006210171, 1006210100, 1006209862

**Servicing:** 0001137001, 0001137002, 0001137011, 0001137012

**ID** 12.00, **OD** 25.50, **OD/housing** 48.10, **Total length** 52.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 235799 Drive

**Replacing:** 6033AD0099

**Servicing:** 0001230005

**ID** 14.30, **OD** 60.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 235804 Drive

**Replacing:** 1006209673

**Servicing:** 0001107080

**ID** 12.00, **OD** 48.00, **Total length** 67.00, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** ACR

## 235810 Drive

**Replacing:** 2006209335, 2006209245

**Servicing:** 0001362009, 0001362011, 0001362022

**ID** 14.30, **OD** 40.80, **OD/housing** 60.20, **Total length** 73.90, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 235839 Drive

**Replacing:** 6033AD0070

**Servicing:** 0001218821, 0001218822, 6033AB1J00, 9000331433

**ID** 12.00, **OD** 35.00, **OD/housing** 54.25, **Total length** 62.40, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 235860

## 235849 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD3336, 6033AD3110

**Servicing:** 0001230018, 0001230020, 0001230021, 0001230022, 0001230025, 0001230026, F002G20785

**ID** 14.20, **OD** 39.90, **OD/housing** 62.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 235860 Drive

**Replacing:** 6033AD0070

**ID** 12.00, **OD** 35.00, **OD/housing** 57.25, **Total length** 62.40, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

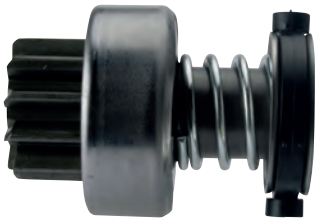
**Alternative no.:** 235839

## 235861 Drive

**Replacing:** 1006209070

**Servicing:** 0001211016, 0001211023

**ID** 12.00, **OD** 27.30, **OD/housing** 47.50, **Total length** 68.60, **Splines A** 10, **No./teeth** 8, **Drive type** Steel, **Rotation** CR



## 236130 Drive

**Replacing:** 6033AD4232, 6033AD4052, 6033AD0467, 6033AD0304, 6033AD0242

**Servicing:** 0001231007, 0001231014, 0001231019, 0001231030, 0001231034, 0001231119

**ID** 14.30, **OD** 40.50, **OD/housing** 60.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 331683 5★

## 236375 Drive

**Replacing:** 1006209961, 1006209785

**Servicing:** 0001123004, 0001123005, 0001123014, 0001123015, 0001123016, 0001123017, 0001123020, 0001123021

**ID** 11.00, **OD** 28.00, **OD/housing** 49.20, **Total length** 93.35, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 333182 5★



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## 236508 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209781

**Servicing:** 0001123002, 0001123003, 0001123024, 0001123025, 0001124015

**ID** 11.00, **OD** 25.30, **OD/housing** 50.50, **Total length** 82.50, **Splines A** 16, **No./teeth** 9, **Rotation** CR

## 236832 Drive

**Replacing:** 1006209796

**Servicing:** 0001107429, 0001107437, 0001108444, F002G20485, F002G20917

**ID** 11.05, **OD** 25.30, **OD/housing** 44.98, **Total length** 48.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333198 5★

## 236854 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209953

**Servicing:** 0001121022, 0001121023

**ID** 12.00, **OD** 27.80, **OD/housing** 50.50, **Total length** 104.60, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

## 236866 Drive

**Replacing:** 1006209797

**Servicing:** 0001108405, 0001108406

**ID** 11.00, **OD** 32.85, **OD/housing** 47.35, **Total length** 48.65, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 236883 Drive

**Replacing:** 1006209813

**Servicing:** 0001121402, 0001121403, 0001121412, 0001121413, 0001121429, 0001121430, 0001122402, 0001122403

**ID** 11.00, **OD** 27.85, **OD/housing** 46.00, **Total length** 93.00, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

## 236891 Drive

**Replacing:** 1006209809

**Servicing:** 0001120402, 0001120403, F004A94403

**ID** 11.55, **OD** 25.50, **OD/housing** 45.00, **Total length** 83.55, **Splines A** 16, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333489 5★

## 237667 Drive

**Replacing:** 1006210111, 1006209964, 1006209818

**Servicing:** 0001109300, 0001109301, 0001109302, 0001109303, 0001109306, 0001109307

**ID** 12.00, **OD** 35.65, **OD/housing** 53.15, **Total length** 55.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333396 5★

## 237752 Clutch

**Replacing:** 6033AD5356, 6033AD5355, 6033AD5078, 6033AD5055

**Servicing:** 0001241001, 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241009, 0001241014, 0001241015, 0001241016

**ID** 18.10, **OD** 20.80, **OD/housing** 72.30, **Total length** 128.00, **Splines A** 19, **Splines B** 7, **Rotation** CR

## 239633 Drive

**Replacing:** 1006209948, 1006209771

**Servicing:** 0001115011, 0001115013

**OD** 27.81, **OD/housing** 47.45, **Total length** 102.11, **Splines A** 10, **No./teeth** 10, **Rotation** ACR

## 239967 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209962, 1006209786

**Servicing:** 0001123012, 0001123013, 0001123018, 0001123019, 0001123026, 0001123027

**OD** 27.75, **OD/housing** 50.60, **Total length** 83.00, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 330007 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209795

**Servicing:** 0001107459, 0001107460, 0001107461, 0001107462, 0001107539, 0001108403, 0001108404, 0001108409, 0001108410, 0001108441

**ID** 12.10, **OD** 27.80, **OD/housing** 47.30, **Total length** 72.50, **Splines A** 16, **No./teeth** 10, **Rotation** CR



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## 330125 Drive

**Replacing:** 1006209845, 1006209836, 1006209828

**Servicing:** 0001115047, 0001115048, 0001115074, 0001115075

**ID** 11.84, **OD** 32.08, **OD/housing** 47.00, **Total length** 51.42, **Splines A** 10, **No./teeth** 12, **Rotation** CR

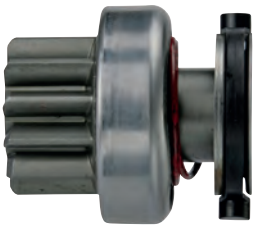
**Alternative no.:** 333581 5★, 333866

## 330226 Drive

**Replacing:** 1006209823

**Servicing:** 0001106405, 0001106406

**ID** 11.00, **OD** 27.65, **OD/housing** 45.10, **Total length** 48.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR



## 330265 Drive

**Replacing:** 1006210146, 1006210128, 1006209966, 1006209824

**Servicing:** 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109325, 0001109328, 0001109329, 0001109387, 0001109388

**ID** 12.00, **OD** 38.60, **OD/housing** 52.40, **Total length** 58.00, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 335231, 333188 5★

## 331009 Drive

**Replacing:** 1006210262, 1006210261, 1006209979, 1006209971

**Servicing:** 0001138003, 0001138004, 0001138005, 0001138006, 0001138045, 0001138046, 0001138047, 0001138048, 0001138053, 0001138054

**ID** 12.02, **OD** 29.45, **OD/housing** 46.90, **Total length** 52.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 331010 Drive

**Replacing:** 1006209940, 1006209849

**Servicing:** 0001107476, 0001107477, 0001108428, 0001108429

**ID** 11.08, **OD** 29.40, **OD/housing** 47.00, **Total length** 48.60, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

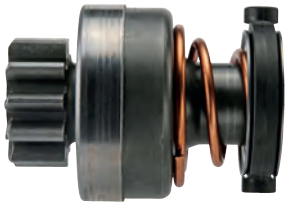
## 331504 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210217, 1006209847

**Servicing:** 0001123036, 0001123037, 0001123038, 0001123039, 0001123044, 0001123045

**ID** 13.50, **OD** 27.29, **OD/housing** 50.49, **Total length** 92.40, **Splines A** 16, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR



## 331683 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD4232, 6033AD4052, 6033AD0467, 6033AD0304, 6033AD0242

**Servicing:** 0001231007, 0001231014, 0001231019, 0001231030

**ID** 14.30, **OD** 40.60, **OD/housing** 61.70, **Total length** 83.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 236130, 335232

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## 331866* Drive

**Replacing:** 1006209825

**Servicing:** 0001107440, 0001107441, F004A94441

**ID** 11.00, **OD** 34.50, **OD/housing** 47.30, **Total length** 49.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 332915 Drive

**Replacing:** 1006209841

**Servicing:** 0001123028, 0001123029

**ID** 11.00, **OD** 27.90, **OD/housing** 50.50, **Total length** 82.60, **Splines A** 16, **No./teeth** 11, **Rotation** ACR

## 332949 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210913, 1006210212

**Servicing:** 0001139025, 0001139026, 0001139029, 0001139030, 0001139043, 0001139044, 0001139065, 0001139066, 0001139071, 0001139072

**ID** 12.00, **OD** 34.00, **OD/housing** 53.40, **Total length** 54.00, **Splines A** 16, **No./teeth** 13, **Rotation** CR

## 333094 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209775

**Servicing:** 0001109046

**ID** 12.04, **OD** 34.25, **OD/housing** 53.50, **Total length** 57.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



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## 333126 Drive

**Replacing:** 2006209490, 2006209429

**Servicing:** 0001362058, 0001362104, 0001366003, 0001366029, 0001368029, 0001368080, B001811062, B001812211, B001816064, B001816066

**ID** 14.15, **OD** 34.50, **OD/housing** 60.45, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 333862

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## 333171 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209804

**Servicing:** 0001108430, 0001108431

**ID** 11.10, **OD** 26.80, **OD/housing** 45.35, **Total length** 48.50, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234124, 234124Z

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## 333172 5★ Drive

**Manufacturer:** Bosch

**Replacing:** F000AL1519, 1006210145, 1006209907, 1006209905, 1006209568, 1006209566, 1006209545, 1006209537

**Servicing:** 0001208719, B001232033

**ID** 12.00, **OD** 26.80, **OD/housing** 47.50, **Total length** 58.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131433, 131433Z

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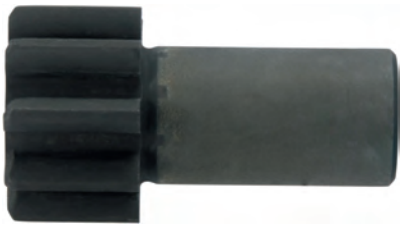

## 333173 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006382193, 2006382176, 2006382150, 2006382020, 2006382017, 2006382013

**ID** 10.60, **OD** 35.00, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 130419

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## 333174 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1007010045, 1006210155, 1006209921, 1006209919, 1006209918, 1006209710, 1006209703, 1006209596

**Servicing:** 0001108094, 0001108095, 0001108127, 0001110001, 0001110002, 0001110014, 0001110015, 0001110076, 0001110077, 0001110098

**ID** 12.00, **OD** 25.80, **OD/housing** 46.00, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 132216, 132216ZZ

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## 333175 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006382191, 2006382156, 2006382152, 2006382018

**Servicing:** 0001410037, 0001410044, 0001410046, 0001410053, 0001410063, 0001410098, 0001410111, 0001410115, 0001410116, 0001411005

**ID** 10.15, **OD** 41.00, **Total length** 61.00, **No./teeth** 11, **Drive type** Steel

**Alternative no.:** 130418, 130418Z

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## 333176 5★ Drive

**Manufacturer:** Bosch

**Replacing:** F000AL1698, F000AL1040, 9001081022, 1006209939, 1006209906, 1006209711, 1006209709, 1006209707

**ID** 12.00, **OD** 25.80, **OD/housing** 47.50, **Total length** 59.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131104, 131104ZZ

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## 333177 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209699, 1006209648, 1006209621

**Servicing:** 0001124001, 0001124002, 0001124005, 0001124006, 0001125001, 0001125002, 0001125007, 0001125008, 0001125011, 0001125012

**ID** 11.00, **OD** 27.75, **OD/housing** 53.60, **Total length** 83.25, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

*Dust cover kit: HC-CARGO 230091.*

**Alternative no.:** 136854, 136854Z, 136854ZZ

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## 333178 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209937, 1006209815, 1006209690, 1006209677, 1006209672, 1006209618

**Servicing:** 0001107037, 0001107048, 0001107054, 0001107055, 0001107067, 0001107068, 0001107069, 0001107072, 0001107073, 0001107074

**ID** 12.00, **OD** 25.30, **OD/housing** 46.90, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137481

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## 333179 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209758, 1006209649, 1006209628

**Servicing:** 0001124003, 0001124004, 0001124013, 0001124014, 0001125005, 0001125006, 0001125035, 0001125036

**ID** 11.20, **OD** 25.35, **OD/housing** 53.70, **Total length** 83.65, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

*Dust cover kit: HC-CARGO 230338.*

**Alternative no.:** 137480, 137480Z, 137480ZZ

## 333180 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209671

**ID** 12.00, **OD** 29.00, **OD/housing** 50.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 230834, 230834Z

## 333181 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209946, 1006209759, 1006209643, 1006209636

**ID** 11.20, **OD** 25.40, **OD/housing** 53.60, **Total length** 93.50, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 137890

## 333182 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209961, 1006209785

**Servicing:** 0001123014, 0001123015, 0001123017, 0001123020, 0001123021

**ID** 11.00, **OD** 28.00, **OD/housing** 49.20, **Total length** 93.35, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 236375

## 333183 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209762, 1006209641

**ID** 11.10, **OD** 25.20, **OD/housing** 47.65, **Total length** 82.85, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 138875, 138875Z

## 333184 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209659

**ID** 12.00, **OD** 34.70, **OD/housing** 47.70, **Total length** 51.65, **Splines A** 10, **No./teeth** 13, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233839

## 333185 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9002336237, 6033AD4119, 6033AD4019, 6033AD3338, 6033AD3334, 6033AD3110, 6033AD0200, 6033AD0184

**Servicing:** 0001231012, 0001231016, 0001231017, 0001231045

**ID** 14.35, **OD** 39.55, **OD/housing** 62.20, **Total length** 83.80, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 231756

## 333186 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209695

**ID** 12.00, **OD** 34.90, **OD/housing** 34.50, **Total length** 50.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 235440, 235440Z

## 333187 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD0250

**ID** 14.35, **OD** 41.50, **OD/housing** 60.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233948

## 333188 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210146, 1006210128, 1006209824

**Servicing:** 0001109205, 0001109324

**ID** 12.00, **OD** 38.60, **OD/housing** 52.40, **Total length** 58.00, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 330265, 335231

## 333189 5★ Drive

**Manufacturer:** Bosch

**Replacing:** F005M10053, F000AL1209, 1006209678, 1006209635, 1006209631

**Servicing:** 0001108183, 0001108217, 0001108218, 0001109036, 0001109250, 0001115008, F000AL0101

**ID** 12.00, **OD** 27.75, **OD/housing** 46.30, **Total length** 50.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 230835



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#Available while stock last, * Program development.

## 333190 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2008209008, 2006209530, 2006209529, 2006209492

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 131065, 131065Z

## 333191 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210156, 1006209944, 1006209777, 1006209715, 1006209706, 1006209696, 1006209692, 1006209633

**Servicing:** 0001106011, 0001106014, 0001106015, 0001107047, 0001107063, 0001107077, 0001107091, 0001107097, 0001107098, 0001107109

**ID** 12.00, **OD** 25.00, **OD/housing** 46.35, **Total length** 49.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137483

## 333192 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209983, 1006209660, 1006209634

**Servicing:** 0001107062, 0001108230, 0001108231, 0001109204, 0001109341

**ID** 12.00, **OD** 28.85, **OD/housing** 46.40, **Total length** 51.25, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137888

## 333193 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209656

**ID** 12.00, **OD** 34.40, **OD/housing** 50.00, **Total length** 50.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233828

## 333194 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9001081033, 1006209997, 1006209993, 1006209686, 1006209600, 1006209584

**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, 0001107009, 0001107012, 0001107013, 0001107015, 0001107017

**ID** 12.00, **OD** 25.20, **OD/housing** 46.20, **Total length** 53.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 135716

## 333195 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209812

**ID** 10.90, **OD** 27.85, **OD/housing** 45.00, **Total length** 47.80, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234535

## 333196 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209691, 1006209539, 1006209538

**Servicing:** 0001110003, 0001110005, 0001110012, 0001110016, 0001110025, 0001110026, 0001110039, 0001110053, 0001110075, 0001110079

**ID** 12.00, **OD** 27.80, **OD/housing** 45.70, **Total length** 58.75, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132205, 132205Z

## 333197 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209426

**Servicing:** 0001367014, 0001367023

**ID** 14.25, **OD** 34.40, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 134282

## 333198 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209796

**ID** 11.05, **OD** 25.30, **OD/housing** 44.98, **Total length** 48.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 236832

## 333199 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209637

**ID** 12.00, **OD** 27.80, **OD/housing** 54.25, **Total length** 57.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137889

## 333200 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209757, 1006209657

**Servicing:** 0001121006, 0001121007, 0001121028

**ID** 11.00, **OD** 25.35, **OD/housing** 46.20, **Total length** 82.25, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

*Dust cover kit: HC-CARGO 230338.*

**Alternative no.:** 230339

## 333201 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209559, 1006209554, 1006209549

**Servicing:** 0001108065, 0001108100, 0001108115, 0001108141, 0001108145, 0001109009, 0001110011, 0001110041, 0001110042, 9000692069

**ID** 12.00, **OD** 29.25, **OD/housing** 46.25, **Total length** 58.20, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 133362, 135115

## 333202 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9002336236, 6033AD4148, 6033AD4034, 6033AD3850, 6033AD3244, 6033AD3108, 6033AD3006, 6033AD0462

**Servicing:** 0001230006, 0001230012, 0001230014, 0001231002, 0001231032, 0001231033

**ID** 14.30, **OD** 34.50, **OD/housing** 59.00, **Total length** 82.25, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 139056, 139056Z

## 333203 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210143, 1006209916, 1006209679, 1006209585

**Servicing:** 0001107008, 0001107020, 0001107021, 0001107053

**ID** 12.00, **OD** 25.25, **OD/housing** 46.50, **Total length** 55.45, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 135085

## 333204 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD1002, 6033AD0077

**Servicing:** 0001223003, 0001223024

**ID** 12.00, **OD** 35.00, **OD/housing** 54.50, **Total length** 64.20, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233835, 335233

## 333205 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209504, 2006209485, 2006209476, 2006209469, 2006209449

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 74.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131019

## 333206 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD0414

**ID** 11.75, **OD** 36.00, **OD/housing** 53.00, **Total length** 58.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233719

## 333207 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209483, 2006209470

**ID** 14.25, **OD** 34.80, **OD/housing** 60.00, **Total length** 73.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130950

## 333208 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209675, 1006209670, 1006209607

**Servicing:** 0001107066

**ID** 12.00, **OD** 29.25, **OD/housing** 46.85, **Total length** 49.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 139954

## 333209 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209532, 2006209495, 2006209452

**Servicing:** 0001367017, 0001367070, 0001367302, 0001368034, 0001368070, 0001368082, 0001368304, 0001368306

**ID** 14.25, **OD** 39.85, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132702, 335235



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## 333210 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209704

**ID** 12.00, **OD** 25.20, **OD/housing** 46.30, **Total length** 46.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 231896

## 333211 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209760, 1006209655

**ID** 13.60, **OD** 26.10, **OD/housing** 53.00, **Total length** 81.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234293

## 333212 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD1062

**ID** 12.00, **OD** 34.50, **OD/housing** 54.40, **Total length** 64.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233947

## 333214 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209642

**ID** 12.00, **OD** 27.70, **OD/housing** 53.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 138322

## 333215 5★ Drive

**Manufacturer:** Bosch

**Replacing:** F00MAL1100, F000AL1100, 1006209680

**Servicing:** 0001121010, 0001121024

**ID** 11.20, **OD** 27.75, **OD/housing** 46.35, **Total length** 82.85, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 230340

## 333216 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209929, 1006209629

**Servicing:** 0001107043, 0001107087, 0001113010, 0001113017

**ID** 12.00, **OD** 26.70, **OD/housing** 46.15, **Total length** 50.40, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137981

## 333217 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209494, 2006209425

**ID** 14.30, **OD** 41.00, **OD/housing** 60.20, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 131271

## 333218 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9006033306, 9006033136, 6033AD0306, 6033AD0243

**Servicing:** 0001231008, 0001231029

**ID** 14.30, **OD** 37.70, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 234087

## 333219 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD3130, 6033AD3120, 6033AD0148

**Servicing:** 0001230009, 0001231011

**ID** 14.30, **OD** 34.35, **OD/housing** 60.00, **Total length** 84.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233837

## 333220 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209500

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131102, 131102Z



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## 333221 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209922, 1006209910, 1006209583, 1006209565, 1006209558, 1006209553

**Servicing:** 0001107005, 0001107006, 0001112010, 0001112011, 0001114009, 0001114010

**ID** 12.00, **OD** 27.70, **OD/housing** 46.80, **Total length** 79.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 139850

## 333222 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD0218

**ID** 12.00, **OD** 27.80, **OD/housing** 53.00, **Total length** 60.65, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234168

## 333223 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209932, 2006209539, 2006209533, 2006209498

**ID** 14.30, **OD** 37.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131475

## 333224 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209661

**ID** 12.00, **OD** 27.80, **OD/housing** 50.00, **Total length** 71.00, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234242

## 333226 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209580

**ID** 12.00, **OD** 25.25, **OD/housing** 46.25, **Total length** 55.40, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 135713

## 333227 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9002453073, 9001083436, 9001083406, 2006209446, 2006209436, 2006209422, 2006209406

**Servicing:** 0001359038, 0001359049, 0001359073, 0001359074, 0001359083, 0001359084, 0001359111, 0001359119, 0001360012, 0001360014

**ID** 14.30, **OD** 34.20, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132273

## 333228 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209499, 2006209462

**ID** 14.30, **OD** 39.00, **OD/housing** 60.10, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131597

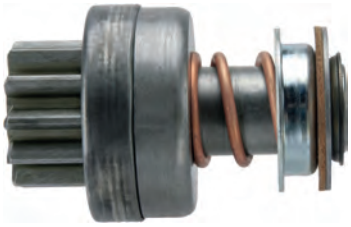
## 333229 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209622

**ID** 12.00, **OD** 39.80, **OD/housing** 53.65, **Total length** 59.00, **Splines A** 10, **No./teeth** 13, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 230350



## 333230 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209933, 2006209541, 2006209537, 2006209531

**Servicing:** 0001364102, 0001364200, 0001364203, 0001368056, 0001368310, 0001368317

**ID** 14.30, **OD** 40.50, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132000



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#Available while stock last, * Program development.

## 333232 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 2006209542, 2006209540
**Servicing:** 0001368313
**ID** 14.30, **OD** 41.50, **OD/housing** 60.00, **Total length** 90.45, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 137231

## 333233 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 9001692096, 1006209472, 1006209449, 1006209428, 1006209406
**ID** 12.00, **OD** 30.00, **OD/housing** 46.30, **Total length** 64.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 131097

## 333234 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 1006209981, 1006209799
**Servicing:** 0001107433, 0001107434, 0001107442, 0001107443, 0001107527, 0001107528
**ID** 10.00, **OD** 29.00, **Total length** 48.30, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 239777

## 333235 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 1006210141, 1006209917, 1004336634
**Servicing:** 0001107003
**ID** 12.00, **OD** 28.80, **OD/housing** 47.40, **Total length** 76.80, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 333236 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 1006210163, 1006209936
**ID** 12.00, **OD** 54.00, **OD/housing** 54.00, **Total length** 62.00, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 333237 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 6033AD4119, 6033AD3338
**ID** 14.00, **OD** 39.00, **OD/housing** 62.00, **Total length** 83.00, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333322 Drive

**Replacing:** 1006209938
**Servicing:** 0001107066
**ID** 12.04, **OD/housing** 46.90, **Total length** 48.80, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 333341 Drive

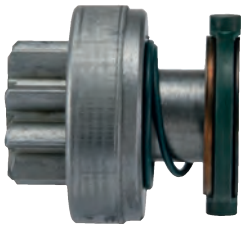
**Replacing:** 1006210185, 1006210103
**Servicing:** 0001109355, 0001109356, 0001109357, 0001109358, 0001109359, 0001109360, 0001109369
**ID** 12.05, **OD** 34.00, **OD/housing** 52.40, **Total length** 56.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 333344 Drive

**Replacing:** 2006209550
**Servicing:** 0001260001
**ID** 14.30, **OD** 43.55, **OD/housing** 62.00, **Total length** 83.00, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 333355 Drive

**Replacing:** 1006209864, 1006209834
**Servicing:** 0001115078, 0001115079, 0001115114, 0001115115
**ID** 12.00, **OD** 36.00, **OD/housing** 54.00, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



## 333396 5★ Drive

**Manufacturer:** Bosch
**Replacing:** 1006210149, 1006210111, 1006209964, 1006209818
**Servicing:** 0001109306, 0001109307, 0001109313, 0001109321, 0001109332, 0001109333, 0001109334, 0001109335, 0001109344, 0001109345
**ID** 12.03, **OD** 35.80, **OD/housing** 53.40, **Total length** 54.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 237667

## 333439 Drive

**Replacing:** 2006209380, 2006209220
**Servicing:** 0001354089
**ID** 14.30, **OD** 34.00, **OD/housing** 59.00, **Total length** 90.00, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR



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**333489** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 1006209809
**Servicing:** 0001120402, 0001120403, F004A94403
**ID** 13.50, **OD** 25.40, **OD/housing** 45.50, **Total length** 83.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR
**Alternative no.:** 236891

**333500** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 6033AD4243, 6033AD0129
**ID** 14.20, **OD** 46.70, **OD/housing** 61.70, **Total length** 83.30, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 233722

**333501** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 6033AD3078, 6033AD0102
**Servicing:** 0001230003
**ID** 14.25, **OD** 34.40, **OD/housing** 59.70, **Total length** 84.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel
**Alternative no.:** 333616

**333502** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 9002336204
**Servicing:** 0001218116, 0001218117
**ID** 12.00, **OD** 27.50, **OD/housing** 53.25, **Total length** 86.35, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR
**Alternative no.:** 135116

**333504** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 2006209544, 2006209543, 2006209458
**Servicing:** 0001367072, 0001368069, 0001368083, 0001369007, 0001369019, 0001369025
**ID** 14.30, **OD** 36.40, **OD/housing** 59.80, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 136509

**333505** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 6033AD4240, 6033AD4019
**ID** 14.25, **OD** 39.90, **OD/housing** 61.70, **Total length** 83.30, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 333615

**333506** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 9003336293, 9001140317
**Servicing:** 0001218004, 0001218005, 0001218008, 0001218012, 0001218013, 0001218017, 0001218018, 0001218111, 0001218112, 0001218113
**ID** 12.00, **OD** 25.00, **OD/housing** 53.30, **Total length** 62.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 131998

**333508** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 9003336223, 9002336223
**Servicing:** 0001218162, 0001218165
**ID** 12.00, **OD** 27.50, **OD/housing** 53.50, **Total length** 58.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 136787

**333509** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 6033AD0061
**Servicing:** 0001223002
**ID** 12.00, **OD** 35.30, **OD/housing** 57.30, **Total length** 62.00, **Splines A** 16, **No./teeth** 11, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 231898

**333510** 5★ Drive
**Manufacturer:** Bosch
**Replacing:** 2006209931, 2006209459, 2006209457
**Servicing:** 0001362312, 0001362316, 0001362319, 0001362321, 0001367037, 0001368059, 0001369001, 0001369005
**ID** 14.25, **OD** 32.00, **OD/housing** 59.80, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 132345



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#Available while stock last, * Program development.

## 333511 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9003336289, 9002336219

**Servicing:** 9000331201, 9000331203

**ID** 12.00, **OD** 35.00, **OD/housing** 58.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 230336

## 333514 5★ Drive

**Manufacturer:** Bosch

**Replacing:** F000AL1881, 9003336283, 9002336283

**Servicing:** 0001218014, 0001218019, 0001218024, 0001218101, 0001218102, 0001218103, 0001218151, 0001218152, 0001218154, 0001218159

**ID** 12.00, **OD** 35.50, **OD/housing** 57.30, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131996

## 333515 5★ Drive

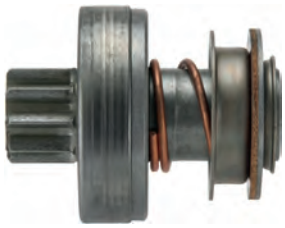
**Manufacturer:** Bosch

**Replacing:** 2006209444, 2006209414

**Servicing:** 0001359090, 9000083075, 9000083076, 9000453075, 9000453076, F006AL0602

**ID** 14.30, **OD** 32.00, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131495



## 333516 5★ Drive

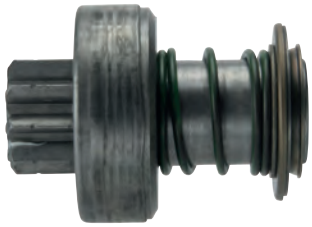
**Manufacturer:** Bosch

**Replacing:** 2006209500, 2006209471

**Servicing:** 0001362001, 0001362002, 0001362030, 0001362038, 0001362047, 0001362069, 0001362070, 0001362077, 0001362078, 0001362083

**ID** 12.00, **OD** 25.35, **OD/housing** 57.40, **Total length** 72.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414, 130414Z, 130414ZZ



## 333519 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209473, 1006209470, 1006209469

**Servicing:** 0001311146, 0001314026, 0001314027, 0001314028, 0001314029, 0001314030, 0001314033, 0001314034, 0001314035, 0001314037

**ID** 12.00, **OD** 25.40, **OD/housing** 47.40, **Total length** 64.40, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 131101

## 333520 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209163, 1006209417, 1006209412, 1006209411, 1006209405, 1006209403, 1006209400

**Servicing:** 0001208053, 0001208054, 0001208055, 0001211213, 0001211214, 0001211216, 0001211217, 0001211218, 0001211219, 0001211230

**ID** 12.00, **OD** 25.40, **OD/housing** 47.40, **Total length** 64.20, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 130405

## 333521 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9001336324, 9001082748, 9001082686, 9001082660, 9001082340, 9001066236, 1006209471, 1006209463

**Servicing:** 0001157024, 0001157025, 0001157028, 0001157029, 0001157030, 0001208200, 0001208201, 0001208202, 0001208206, 0001208208

**ID** 12.00, **OD** 25.40, **OD/housing** 47.40, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130396

## 333523 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209923, 1006209578

**Servicing:** 0001108099, B001111273

**ID** 12.00, **OD** 29.30, **OD/housing** 47.40, **Total length** 59.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 135464

## 333524 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209850, 1006209650

**Servicing:** 0001109029, 0001122201, 0001122202

**ID** 12.00, **OD** 29.50, **OD/housing** 50.50, **Total length** 49.40, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 231009



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

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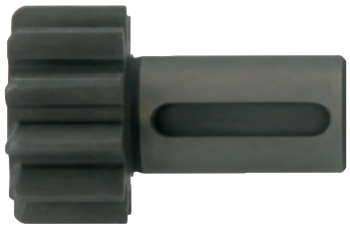

## 333540 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006382172, 2006382019

**Servicing:** 0001410065, 0001411017, 0001411025, 0001411026, 0001416052, 0001417005, 0001417006, 0001417007, 0001417059, 0001417064

**ID** 10.00, **OD** 40.50, **Total length** 61.60, **No./teeth** 11, **Drive type** Steel, **Rotation** CR/ACR

**Alternative no.:** 131107

## 333544 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209941, 1006209592

**Servicing:** 0001110071, 0001110072

**ID** 12.00, **OD** 29.20, **OD/housing** 48.50, **Total length** 58.70, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 136614

## 333548 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210152, 1006209908, 1006209569, 1006209560, 1006209545

**Servicing:** 0001110065, 0001110104, 0001110105

**ID** 12.00, **OD** 26.80, **OD/housing** 53.40, **Total length** 58.70, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 131434

## 333551 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209806

**Servicing:** 0001120400, 0001120401, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120410, 0001120411

**ID** 12.00, **OD** 27.85, **OD/housing** 45.45, **Total length** 83.00, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 234785

## 333553 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209646

**Servicing:** 0001109026

**ID** 12.00, **OD** 29.70, **OD/housing** 53.50, **Total length** 51.30, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 230352

## 333564 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209943, 1006209681

**Servicing:** 0001125018, 0001125046, 0001125047, 0001125048, 0001125049, 0001125605, 0001125606

**ID** 12.00, **OD** 27.76, **OD/housing** 54.50, **Total length** 105.45, **Splines A** 16, **No./teeth** 10, **Rotation** ACR

**Alternative no.:** 232623, 335236

## 333571 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210148, 1006209987, 1006209950, 1006209802, 1006209645

**Servicing:** 0001109336, 0001109337, 0001115048

**ID** 12.00, **OD** 29.20, **OD/housing** 53.50, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 230828

## 333577 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209523

**Servicing:** 0001218006, 0001218016, 0001218108, 0001218109, 0001218150, 0001218156, 0001218160, 0001218710, 0001219001, 0001219007

**ID** 12.00, **OD** 27.50, **OD/housing** 54.00, **Total length** 64.80, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 131995

## 333579 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210144, 1006209959, 1006209792, 1006209779

**Servicing:** 0001108224, 0001115021, 0001115025

**ID** 12.00, **OD** 29.00, **OD/housing** 50.50, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 234902



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## 333581 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209845, 1006209836, 1006209828

**Servicing:** 0001115074, 0001115075

**ID** 12.00, **OD** 32.20, **OD/housing** 48.40, **Total length** 51.20, **Splines A** 10, **No./teeth** 12, **Rotation** CR

**Alternative no.:** 330125

## 333593 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD0004

**Servicing:** 0001223001

**ID** 12.00, **OD** 29.30, **OD/housing** 57.35, **Total length** 59.80, **Splines A** 16, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 233836

## 333599 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 6033AD3106, 6033AD0267

**Servicing:** 0001230002

**ID** 14.30, **OD** 39.80, **OD/housing** 60.00, **Total length** 83.20, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 233723

## 333605 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9003336291

**Servicing:** 0001218021, 0001218029, 0001218108, 0001218110, 0001218150, 0001218156, 0001218710, 0001219001, 0001219007, 0001219009

**ID** 12.00, **OD** 27.53, **OD/housing** 53.40, **Total length** 64.90, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 333606 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2006209457, 2006209427, 2004336027

**ID** 14.20, **OD** 32.16, **OD/housing** 59.80, **Total length** 91.10, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 333678 Drive

**Replacing:** F000AL2630

**Servicing:** F000AL0129, F000AL0131, F000AL0150, F000AL0152

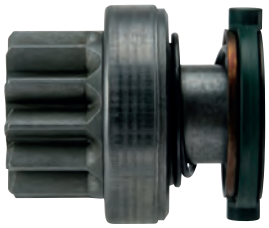
**ID** 12.00, **OD/housing** 53.00, **Total length** 71.10, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333683 Drive

**Replacing:** 6033AD0191, 6033AD0190

**Servicing:** 0001223500, 0001223502

**ID** 14.00, **OD** 32.00, **OD/housing** 62.00, **Total length** 75.90, **Splines A** 14, **No./teeth** 10, **Drive type** Steel, **Rotation** CR



## 333740 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210206, 1006210205

**Servicing:** 0001115088, 0001115089, 0001115092, 0001115093

**ID** 12.10, **OD** 37.80, **OD/housing** 50.50, **Total length** 57.80, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

## 333793 Drive

**Replacing:** 2006202015

**Servicing:** 0001371018, 0001371020, 0001371120

**ID** 16.00, **OD** 56.80, **OD/housing** 58.00, **Total length** 118.00, **Splines A** 18, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

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## 333832 5★ Drive

**Replacing:** 2007010167

**Servicing:** 0001263003, 0001263004, 0001263017, 0001263018

## 333833 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209965, 1006209819

**Servicing:** 0001125521, 0001125522, 0001125609, 0001125610

**ID** 13.30, **OD** 28.00, **OD/housing** 54.00, **Total length** 83.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 333834 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 2007010166

**Servicing:** 0001263001, 0001263005, 0001263006, 0001263019, 0001263020, 0001263021, 0001263022, 0001263023, 0001263024

**ID** 14.00, **OD** 39.50, **OD/housing** 62.00, **Total length** 83.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333835 Drive

**Replacing:** 6033AD0474, 6033AD0275

**Servicing:** 0001223006

**ID** 12.00, **OD** 27.55, **OD/housing** 52.52, **Total length** 91.80, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333853 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006210174, 1006210106, 1006209838

**Servicing:** 0001109280, 0001109281, 0001109315, 0001109361, 0001109362, 0001109421, 0001109422, 0001115082, 0001115083, 0001115084

**ID** 12.05, **OD** 33.00, **OD/housing** 50.50, **Total length** 61.75, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333925

## 333854 Drive

**Replacing:** 2006209336, 2006209246

**Servicing:** 0001362012, 0001362016

**ID** 14.20, **OD** 34.80, **OD/housing** 60.00, **Total length** 75.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 131712

## 333858 Drive

**Replacing:** 2006202000

**Servicing:** 0001420001, 0001420003, 0001420004, 0001420009, 0001420012, 0001420013, 0001420015, 0001420024

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 232632

## 333861 Drive

**Replacing:** 2006209461

**Servicing:** 0001368077

**ID** 14.25, **OD** 35.80, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 234971

## 333862 Drive

**Replacing:** 2006209490, 2006209429

**ID** 14.15, **OD** 34.50, **OD/housing** 60.45, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 333126

## 333866 Drive

**Replacing:** 1006209845, 1006209836, 1006209828

**Servicing:** 0001115048, 0001115074, 0001115075

**ID** 12.00, **OD** 32.00, **OD/housing** 47.00, **Total length** 51.40, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 330125, 333581 5★

## 333872 Drive

**Replacing:** 1006210154, 1006210147, 1006210125, 1006210117, 1006209952, 1006209934, 1006209714

**Servicing:** 0001107038, 0001116006

**ID** 12.00, **OD** 27.00, **OD/housing** 47.00, **Total length** 48.10, **Splines A** 10, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 235200

## 333886 Drive

**Replacing:** 1006209612

**Servicing:** 0001109011

**ID** 12.00, **OD** 29.80, **OD/housing** 48.50, **Total length** 58.80, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR

## 333888 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209982, 1006209826

**Servicing:** 0001107425, 0001107426, 0001107442, 0001107443, 0001107525, 0001107526

**ID** 10.90, **OD** 29.00, **OD/housing** 45.50, **Total length** 48.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



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#Available while stock last, * Program development.

## 333895 Drive

**Replacing:** 1006209782

**Servicing:** 0001125025, 0001125057, 0001125058, 0001125059, 0001125060

**ID** 13.50, **OD** 27.75, **OD/housing** 52.40, **Total length** 81.80, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 333896* Drive

**Replacing:** 6033AD0461

**Servicing:** 0001223506

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## 333913 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 1006209798

**Servicing:** 0001107430

**ID** 11.00, **Total length** 48.40, **No./teeth** 9, **Rotation** CR

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## 333915 Drive

**Replacing:** 1006209995

**Servicing:** 0001108234, 0001108235, 0001108239

**ID** 12.00, **OD** 28.50, **OD/housing** 46.90, **Total length** 51.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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## 333918 Drive

**Replacing:** 6033AD0329

**Servicing:** 0001223011, 0001223012, 0001223018, 0001223019

**ID** 12.00, **OD** 29.30, **OD/housing** 53.53, **Total length** 59.00, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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## 333925 Drive

**Replacing:** 1006210174, 1006210106, 1006209838

**Servicing:** 0001109275, 0001109276, 0001109315, 0001109421, 0001109422, 0001115056, 0001115057, 0001115082, 0001115083, 0001115110

**ID** 12.00, **OD** 32.85, **OD/housing** 52.40, **Total length** 60.30, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333853 5★

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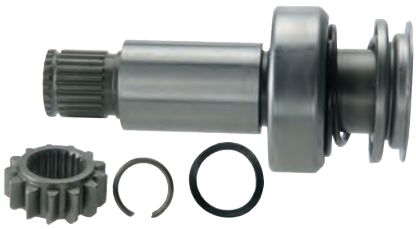

## 333926 Drive

**Replacing:** 1006210271

**Servicing:** 0001177000, 0001177001, 0001177002, 0001177003, 0001177004, 0001177005, 0001177006, 0001177007, 0001177008, 0001177009

**ID** 13.50, **OD** 34.30, **OD/housing** 45.80, **Total length** 97.85, **Splines A** 16, **No./teeth** 13, **Drive type** Steel, **Rotation** ACR

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## 333930 Drive

**Replacing:** 1006209789

**Servicing:** 0001108206, 0001108207, 0001108228, 0001108229, 0001108237, 0001108238

**ID** 12.00, **OD** 29.10, **OD/housing** 48.50, **Total length** 51.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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## 333932 Drive

**Replacing:** 1006210194, 1006210183

**Servicing:** 0001139017, 0001139018, 0001139019, 0001139020, 0001139041, 0001139042, 0001139045, 0001139046, 0001139049, 0001139050

**ID** 12.00, **OD** 32.75, **OD/housing** 50.40, **Total length** 59.50, **Splines A** 16, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 333933 Drive

**Replacing:** 1006209991

**Servicing:** 0001107478, 0001107479, 0001108420, 0001108421, 0001108450, 0001108451, 0001108456, 0001108457

**ID** 11.00, **OD** 33.00, **OD/housing** 45.00, **Total length** 48.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 333937 Drive

**Replacing:** F000AL1692, F000AL1680, F000AL1679, F000AL1238

**Servicing:** F000AL0308, F000AL0309, F000AL0310, F000AL0316

**ID** 12.00, **OD** 25.20, **OD/housing** 46.35, **Total length** 58.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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## 333940 Drive

**Replacing:** F000AL2814, F000AL2281, F000AL1281, 1006209821

**Servicing:** 00010DB98E, F000AL0111, F004A94008, F004A94011

**ID** 12.00, **OD** 34.40, **OD/housing** 52.50, **Total length** 60.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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#Available while stock last, * Program development.

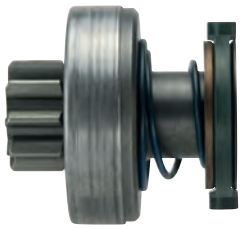
O.E.M. names and numbers are used for reference purposes only.

**333941** Drive

**Replacing:** F000CD1114

**Servicing:** F000CD0002, F000CD0A02

**ID** 10.00, **OD** 21.80, **OD/housing** 45.50, **Total length** 49.30, **Splines A** 11, **No./teeth** 8, **Drive type** Steel, **Rotation** CR



**333943** Drive

**Replacing:** 6033AD0204

**Servicing:** 0001223004, 0001223104

**ID** 12.00, **OD** 28.85, **OD/housing** 57.30, **Total length** 59.60, **Splines A** 16, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**333954** Drive

**Replacing:** 9002336214

**Servicing:** 0001219010, B001235019

**ID** 12.00, **OD** 29.40, **OD/housing** 53.50, **Total length** 61.20, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**335040** 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 9002336210, 9002336201

**Servicing:** 0001218812, 9000331423, 9000332405, 9000332406

**ID** 12.05, **OD** 39.90, **OD/housing** 59.85, **Total length** 68.65, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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**335041** Drive

**Replacing:** 2006209538

**Servicing:** 0001368057, 0001369011, B001816384, B001828085

**ID** 14.50, **OD** 46.50, **OD/housing** 60.00, **Total length** 91.30, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

## Drive Parts

### Caps

Pkg. 25

**134207** Dp Cap

**ID** 40.85, **OD** 42.35

Pkg. 25

**134210** Dp Cap

**Replacing:** 1000500018

**ID** 52.15, **OD** 53.80

Pkg. 25

**134211** Dp Cap

**ID** 56.05, **OD** 58.25

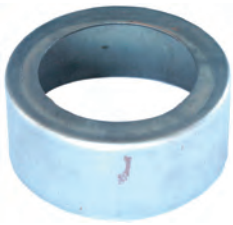
Pkg. 100

**134250** Dp Cap

**Servicing:** 1006209570

**ID** 46.10, **OD** 47.20

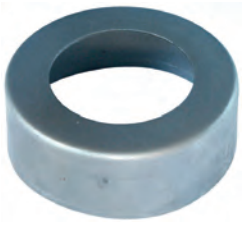
Pkg. 50



**134251** Dp Cap

**ID** 55.63, **OD** 57.00

Pkg. 50



**134257** Dp Cap

**ID** 50.17, **OD** 51.90

Pkg. 10

**134258** Dp Cap

**ID** 52.20, **OD** 54.20

Pkg. 10

**134261** Dp Cap

**ID** 56.13, **OD** 58.50



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Pkg. 50

**139299** Dp Cap
**ID** 46.15, **OD** 47.50

Pkg. 100

**230320** Dp Cap
**ID** 46.60, **OD** 48.55

Pkg. 25

**230387** Dp Cap
**Servicing:** 0001223504
**ID** 58.00, **OD** 59.75

Pkg. 10

**238780** Dp Cap
**Replacing:** 6033AC5049, 238780
**Servicing:** 6033AD5078
**OD** 72.65

## Gaskets

Pkg. 10

**231201** Gasket
**ID** 27.85, **OD** 49.35, **Thickness** 3.85, **Material** Rubber

## Gears

Pkg. 10

**134163** Dp Gear
**ID** 11.00, **OD** 25.10, **Height** 36.40, **No./teeth** 9

Pkg. 10

**134164** Dp Gear
**ID** 12.35, **OD** 25.50, **Height** 65.70, **No./teeth** 9

Pkg. 10

**134172** Dp Gear
**ID** 12.00, **OD** 25.60, **Height** 48.25, **No./teeth** 9

Pkg. 10

**134179** Dp Gear
**ID** 12.00, **OD** 26.70, **Height** 27.00, **No./teeth** 10

Pkg. 10

**134188** Dp Gear
**ID** 12.00, **OD** 29.00, **Height** 26.85, **No./teeth** 9

Pkg. 10

**134190**# Dp Gear
**ID** 14.00, **OD** 34.60, **Height** 36.90, **No./teeth** 9

Pkg. 10

**134192** Dp Gear
**ID** 14.00, **OD** 34.00, **Height** 42.45, **No./teeth** 9

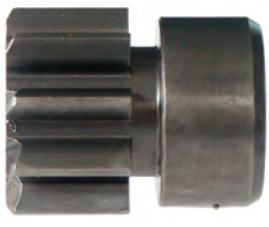
Pkg. 5

**134193** Dp Gear
**ID** 14.00, **OD** 40.55, **Height** 42.50, **No./teeth** 11

Pkg. 10

**134194**# Dp Gear
**ID** 12.00, **OD** 27.70, **Height** 26.95, **No./teeth** 10

Pkg. 10



**134195** Dp Gear
**ID** 14.30, **OD** 34.00, **Height** 42.55, **No./teeth** 9



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#Available while stock last, * Program development.



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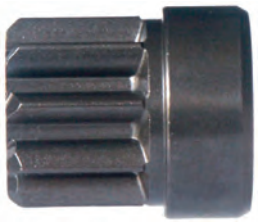
Pkg. 5

**134236** Dp Gear
**Servicing:** 1006209570
**ID** 12.00, **OD** 25.35, **Height** 26.90, **No./teeth** 9

Pkg. 10



**134237**# Dp Gear
**ID** 12.00, **OD** 25.10, **Height** 32.35, **No./teeth** 9

Pkg. 10

**134238** Dp Gear
**ID** 12.00, **OD** 25.00, **Height** 27.00, **No./teeth** 9

**136679** Dp Gear
**ID** 12.70, **OD** 25.15, **Height** 65.70, **No./teeth** 9,

**139803**# Dp Gear
**ID** 14.20, **OD** 25.20, **Height** 68.70, **No./teeth** 9,

**235194** Dp Gear
**Servicing:** 0001125600, 0001125601
**ID** 11.20, **OD** 29.00, **Height** 14.50, **No./teeth** 9

## Rollers

Pkg. 1000

**134214** Dp Rollers
**OD** 7.00, **Length** 9.00

Pkg. 500

**134216** Dp Rollers
**Servicing:** 0001223504
**OD** 7.00, **Length** 13.90

Pkg. 2000

**134241** Dp Rollers
**Replacing:** 1003200018
**Servicing:** 0001147404, 1006209570
**OD** 6.00, **Length** 7.90

Pkg. 1000

**134245** Dp Rollers
**OD** 7.00, **Length** 11.80

Pkg. 100

**134913** Dp Rollers
**Servicing:** 1006209570
**OD** 6.10, **Length** 7.90

Pkg. 1000

**135377** Dp Rollers
**Servicing:** 1006209570
**OD** 6.00, **Length** 8.00

Pkg. 100

**235141** Roller
**Servicing:** 1006209796, 1006209797, 1006209801, 1006209804, 1006209807
**OD** 4.96, **Length** 6.93

Pkg. 500

**331014** Roller
**OD** 6.05, **Length** 9.00

Pkg. 500

**331015** Roller
**OD** 7.05, **Length** 14.00



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Pkg. 100

**333362** Roller

**OD** 5.00, **Length** 9.75

## Springs

Pkg. 2000

**134279** Dp Springs

**Replacing:** 1004611018

**Servicing:** 0001147404, 1006209570

**OD** 4.35, **Length** 12.65

Pkg. 250

**134280** Dp Springs

**OD** 5.00, **Length** 17.00

## Spring/Roller Retainers

Pkg. 25

**134225** Spring/roller retainer

**Replacing:** 1000139015

**ID** 30.00, **OD** 50.95, **Thickness** 5.15, **Material** Plastic

Pkg. 100

**134259** Spring/roller retainer

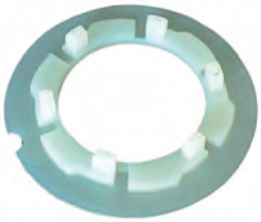
**Servicing:** 1006209570

**ID** 28.70, **OD** 45.55, **Thickness** 1.75, **Material** Plastic

**134272** Spring/roller retainer

**ID** 32.45, **OD** 45.25, **Material** Plastic

Pkg. 10



**134923** Spring/roller retainer

**Servicing:** 0001223504

**ID** 32.55, **OD** 56.75, **Thickness** 0.75, **Material** Nylon

Pkg. 24

**134924** Spring/roller retainer

**Servicing:** 0001223504

**ID** 33.00, **OD** 45.65, **Thickness** 17.70, **Material** Nylon

Pkg. 25

**134978** Spring/roller retainer

**ID** 31.40, **OD** 54.95, **Thickness** 5.00, **Material** Plastic

Pkg. 10

**231904**# Spring/roller retainer

**ID** 28.50, **OD** 48.15, **Thickness** 5.15, **Material** Plastic

Pkg. 10

**235417** Spring/roller retainer

**Servicing:** 1006209796, 1006209801, 1006209804, 1006209805, 1006209806, 1006209807, 1006209809, 1006209813, 1006209814, 1006209958

## Pinion

Pkg. 10

**134970** Pinion

**ID** 12.00, **OD** 25.00, **Height** 24.95, **No./teeth** 9

**237769** 5★ Pinion

**Manufacturer:** Bosch

**Replacing:** 6033AD5395, 6033AC5394, 6033AC5246, 6033AC5149, 2006382416

**Servicing:** 0001241001, 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241009, 0001241014, 0001241015, 0001241019

**ID** 25.60, **OD** 45.10, **Height** 22.70, **No./splines** 19, **No./teeth** 12



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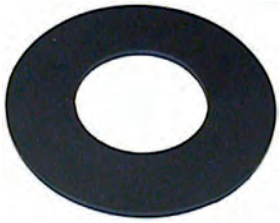
## Washers

Pkg. 100

**134223** DP Washer

**Replacing:** 1000103005
**Servicing:** 0001147404, 1006209570
**ID** 12.35, **OD** 19.65, **Thickness** 2.00, **Material** Steel

Pkg. 25



**134708** DP Washer

**ID** 18.00, **OD** 28.00, **Thickness** 4.00, **Material** Rubber

Pkg. 25

**134709** Rubber Washer

**ID** 27.85, **OD** 58.80, **Thickness** 1.60, **Material** Rubber
*Improved version.*

Pkg. 100

**134757** DP Washer

**ID** 24.90, **OD** 45.00, **Thickness** 1.60

Pkg. 100

**134758** DP Washer

**ID** 29.25, **OD** 53.85, **Thickness** 1.60, **Material** Fiber

Pkg. 100

**134764** Fiber Washer

**Replacing:** 1000207006
**Servicing:** 00010DB98E, 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019
**ID** 18.50, **OD** 23.50, **Thickness** 1.60, **Material** Fiber

Pkg. 100

**134765**[#] DP Washer

**ID** 31.35, **OD** 47.85, **Thickness** 2.55

Pkg. 100

**134770** Washer

**Replacing:** 1000207001
**Servicing:** 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001107401, 0001107402, 0001107403, 0001107404, 0001107405
**ID** 20.50, **OD** 25.80, **Thickness** 1.60, **Material** Fiber

Pkg. 10

**134914** DP Washer

**ID** 14.40, **OD** 19.70, **Thickness** 2.40, **Material** Metal

## Various

**230091** Dust Cover Kit

**Servicing:** 0001120400, 0001120407, 0001120409, 0001120411, 0001121018, 0001121019, 0001121024, 0001121025, 0001121403, 0001121408
*For 10 teeth drives.*

**230338** Dust Cover Kit

**Servicing:** 0001120402, 0001123001, 0001124015, 0001124020, 0001124021, 0001125009, 0001125036, 0001125053, 0001125054, 0001125055
*For 9 teeth drives.*

**331021** Dust Cover Kit

**Servicing:** 0001121023, 0001125016, 0001125017, 0001125019, 0001125605
**ID/housing** 8.00, **OD/housing** 11.50, **Thickness** 1.50, **Material** Steel



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[#]Available while stock last, ***** Program development.

## Planet Gears

### 131989 Planet Gear

**Replacing:** 9001337069, 9001140391

**Servicing:** 0001218003, 0001218020, 0001218178, B001233054, B001233091, B001233158

**Shaft dia./middle** 11.90,
**Total length** 155.90, **No./splines** 10

### 131990 Planet Gear

**Replacing:** 9001140362

**Servicing:** 0001218001, 0001218002, 0001218004, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011, 0001218012, 0001218013

**Shaft dia./middle** 11.90,
**Total length** 140.90, **No./splines** 10

### 131991 Planet Gear

**Replacing:** 1006200050

**Servicing:** 0001218006, 0001218016, 0001218029, 0001218108, 0001218160, 0001219001, 0001219007, 0001219009, 0001219013, 0001219015

**Shaft dia./middle** 11.90,
**Total length** 143.55, **No./splines** 10,
**Rotation** CR

### 133195# Planet Gear

**Replacing:** 9003336285, 9001337067

**Servicing:** 9000331406, 9000331411

**Shaft dia./middle** 12.00,
**Total length** 131.45, **No./splines** 10

### 133456 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200187, 1006200006

**Servicing:** 0001110004, 0001110007, 0001110008, 0001110011, 0001110012, 0001110013, 0001110019, 0001110022, 0001110023, 0001110027

**Shaft dia./middle** 11.90,
**Total length** 136.60, **No./splines** 10

### 133457 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200015

**Servicing:** 0001109009, 0001110003, 0001110005, 0001110024, 0001110025, 0001110042, 0001110055, 0001110082, 0001110092, 0001110102

**Shaft dia./middle** 11.90,
**Total length** 136.50, **No./splines** 10

### 133458 Planet Gear

**Replacing:** 1007010099, 1006200021, 1006200004

**Servicing:** 0001110001, 0001110002, 0001110014, 0001110015, 0001110057, 0001110058, 0001110076, 0001110077, 0001110133, 0001110134

**Shaft dia./middle** 11.90,
**Total length** 134.60, **No./splines** 10,
**Rotation** ACR

### 133459 Planet Gear

**Replacing:** 1006200131, 1006200123, 1006200056, 1006200022, 1006200018, 1006200010, 1006200005, 1006200001

**Servicing:** 0001107061, 0001108001, 0001108002, 0001108004, 0001108007, 0001108009, 0001108010, 0001108011, 0001108012, 0001108016

**Shaft dia./middle** 11.90,
**Total length** 133.25, **No./splines** 10

### 133483 Planet Gear

**Replacing:** 1006200903, 1006200134, 1006200104, 1006200049, 1006200048, 1006200017

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108018, 0001108026, 0001108027, 0001108042, 0001108054

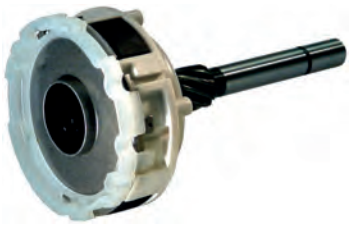
**Shaft dia./middle** 11.90,
**Total length** 139.00, **No./splines** 10,
**Rotation** CR

### 133484 Planet Gear

**Replacing:** 1006200902, 1006200016

**Servicing:** 0001110016, 0001110028, 0001110029, 0001110030, 0001110039, 0001110041, 0001110048, 0001110049, 0001110053, 0001110054

**Shaft dia./middle** 11.90,
**Total length** 140.00, **No./splines** 10



## 133485 Planet Gear

**Replacing:** 1006200904, 1006200019, 1004200019

**Servicing:** 0001110003, 0001110017, 0001110026, 0001110056, 0001110079, 0001110089, 0001110095, 0001110114, 0001110999, 0001111001

**Shaft dia./middle** 11.90,
**Total length** 139.35, **No./splines** 10

## 135068 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200910, 1006200130, 1006200037

**Servicing:** 0001107003, 0001107004, 0001107022, 0001107023, B001110041, B001110100

**Shaft dia./middle** 11.90,
**Total length** 148.20, **No./splines** 10,
**Rotation** ACR

## 135069 Planet Gear

**Replacing:** 1006200900, 1006200014

**Servicing:** 0001108021, 0001108121, 0001108147, B001111069

**Shaft dia./middle** 11.90,
**Total length** 138.40, **No./splines** 10,
**Rotation** ACR

## 135071 Planet Gear

**Replacing:** 9001337059, 135071

**Servicing:** 0001218002, 0001218004, 0001218005, 0001218009, 0001218011, 0001218013, 0001218025, 0001218027, 0001218100, 0001218104

**Shaft dia./middle** 11.90,
**Total length** 145.45, **No./splines** 10

## 135072 Planet Gear

**Replacing:** 9003336268, 9001337062, 9001337056

**Servicing:** 0001218006, 0001218016, 0001218021, 0001218029, 0001218108, 0001218109, 0001218110, 0001218123, 0001218137, 0001218139

**Shaft dia./middle** 11.90,
**Total length** 144.60, **No./splines** 10

## 135073 Planet Gear

**Replacing:** 9003337014, 9003336296, 9001337057

**Servicing:** 0001218101, 0001218111, 0001218112, 0001218130, 0001218132, 0001218134, 0001218135, 0001218136, 0001218142, 0001218157

**Shaft dia./middle** 11.93,
**Total length** 144.80, **No./splines** 10

## 135074 Planet Gear

**Replacing:** 9003336299, 9001337058

**Servicing:** 0001218002, 0001218004, 0001218005, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011, 0001218012, 0001218013

**Shaft dia./middle** 11.90,
**Total length** 144.90, **No./splines** 10

## 135471 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200103, 1006200058

**Servicing:** 0001107017, 0001107018, 0001107044, 0001107045, B001110043, B001110081

**Shaft dia./middle** 11.90,
**Total length** 124.55, **No./splines** 10

## 135598 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200183, 1006200012

**Servicing:** 0001110009, 0001110010, 0001110031, 0001110032, 0001110061, 0001110062, B001117030, B001117068, B001117071, B001117140

**Shaft dia./middle** 11.90,
**Total length** 160.95, **No./splines** 10,
**Rotation** ACR



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## 135600 Planet Gear

**Replacing:** 1006200110, 1006200042

**Servicing:** 0001107009, 0001107012, 0001107013, 0001107015, 0001107034, 0001107044, 0001107060, 9000081004, B001110042, B001110043

**Shaft dia./middle** 11.90, **Total length** 124.10, **No./splines** 10

## 135601 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** F000AL0128, 1006200128, 1006200043

**Servicing:** 0001107007, 0001107008, 0001107020, 0001107021, 0001107052, 0001107053, 9000694029, B001110054, B001110099, B001110116

**Shaft dia./middle** 11.90, **Total length** 124.35, **No./splines** 10, **Rotation** ACR

## 135841 Planet Gear

**Replacing:** 1006200129, 1006200041, 1006200030

**Servicing:** 0001107005, 0001107006, 0001108059, 0001108060, 0001108076, 0001108077, 0001108096, 0001108097, B001110060, B001111155

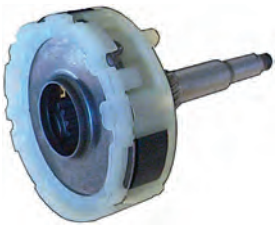
**Shaft dia./middle** 11.90, **Total length** 148.10, **No./splines** 10, **Rotation** ACR

## 136788 Planet Gear

**Replacing:** 9001337087

**Servicing:** 0001218162, 0001218165

**Shaft dia./middle** 11.90, **Total length** 135.10, **No./splines** 10



## 136855 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200088

**Servicing:** 0001123003, 0001124001, 0001124002, 0001124003, 0001124004, 0001124005, 0001124006, 0001124013, 0001124014, B001127016

**Shaft dia./middle** 14.15, **Total length** 116.45, **No./splines** 16, **Rotation** ACR

## 137225 Planet Gear

**Replacing:** 1006200034

**Servicing:** 0001110059, 0001110073, 0001110081, B001117272, B001117274

**Shaft dia./middle** 11.90, **Total length** 180.75, **No./splines** 10, **Rotation** ACR

## 137328 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200127, 1006200069

**Servicing:** 0001107025, 0001107026, 0001107103, 0001107104, B001110114

**Shaft dia./middle** 11.90, **Total length** 139.70, **No./splines** 10

## 137383 Planet Gear

**Replacing:** 9001337073

**Servicing:** 0001218116, 0001218117, B001233180

**Shaft dia./middle** 11.90, **Total length** 167.90, **No./splines** 10, **Rotation** ACR

## 137463 Planet Gear

**Replacing:** 1006200112

**Servicing:** 0001108162, 0001108172, 0001108178, 0001108188, 0001108199, 0001108202, 0001108204, 0001108224, 0001108234, 0001108235

**Shaft dia./middle** 11.90, **Total length** 120.50, **No./splines** 10

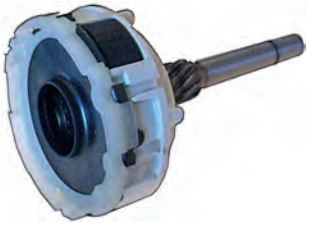
## 137464 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200117

**Servicing:** 0001125001, 0001125002, 0001125005, 0001125006, 0001125007, 0001125008, 0001125009, 0001125010, 0001125012, 0001125013

**Shaft dia./middle** 14.00, **Total length** 109.65, **No./splines** 16, **Rotation** ACR



## 137623 Planet Gear

**Replacing:** 1006200086, 1006200077

**Servicing:** 0001110076, 0001110077, 0001110098, 0001110099, B001110076

**Shaft dia./middle** 11.90, **Total length** 137.20, **No./splines** 10



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## 137624 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 9001337085
**Servicing:** 9000331201, 9000331203
**Shaft dia./middle** 11.92,
**Total length** 141.65, **No./splines** 10

## 137755 Planet Gear

**Replacing:** 1006200111, 1006200081, 1006200071, 1006200061
**Servicing:** 0001108125, 0001108128, 0001108132, 0001108139, 0001108140, 0001108141, 0001108148, 0001108150, 0001108155, 0001108156
**Shaft dia./middle** 11.90,
**Total length** 132.45, **No./splines** 10

## 137884 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200101
**Servicing:** 0001109015, 0001109052, 0001109055, 0001109062, 0001109068, 0001109202, 0001109203
**Shaft dia./middle** 11.90,
**Total length** 129.25, **No./splines** 10

## 137885 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200114
**Servicing:** 0001107054, 0001107055, 0001107067, 0001107068, 0001107069, 0001107073, 0001107074, 0001107076
**Shaft dia./middle** 11.95,
**Total length** 121.20, **No./splines** 10

## 137886 5★ Planet Gear

**Replacing:** 1006200118, 1006200109, 1006200100
**Servicing:** 0001124007, 0001124008, 0001124011, 0001124012, 0001124022, 0001124023, 0001124024, 0001124025, 0001125003, 0001125004
**Shaft dia./middle** 14.20,
**Total length** 128.50, **No./splines** 16,
**Rotation** ACR

## 137920 Planet Gear

**Replacing:** 1006200098, 1006200059
**Servicing:** 0001108123, 0001108134, 0001108160, 0001108995, 9007046007, 9007046009, B001111412
**Shaft dia./middle** 10.90,
**Total length** 125.45, **No./splines** 10

## 137921 Planet Gear

**Replacing:** 1006200145, 1006200087
**Servicing:** 0001107037, 0001107048, 0001108157, 0001108169, 0001108190, 0001108196, 0001108245, B001111498
**Shaft dia./middle** 11.92,
**Total length** 120.71, **No./splines** 10,
**Rotation** CR

## 138253 Planet Gear

**Replacing:** 1006200064
**Servicing:** 0001107024, B001110080
**Shaft dia./middle** 11.90,
**Total length** 123.85, **No./splines** 10

## 138325 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200099, 1006200096
**Servicing:** 0001109014, 0001109018, 0001109025, 0001109026, 0001109028, 0001109030, 0001109031, 0001109033, 0001109036, 0001109041
**Shaft dia./middle** 11.90,
**Total length** 125.15, **No./splines** 10
**Alternative no.:** 333792

## 138916 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200153, 1006200148, 1006200072
**Servicing:** 0001106011, 0001106015, 0001106019, 0001107030, 0001107075, 0001107077, 0001107079, 0001107088, 0001107089, 0001107092
**Shaft dia./middle** 11.90,
**Total length** 110.75, **No./splines** 10

## 138920 Planet Gear

**Replacing:** 1006200184, 1006200055
**Servicing:** 0001110061, 0001110062, 0001110069, 0001110070, 0001110084, 0001110085, 0001110086, 0001110087, 0001110118, 0001110119
**Shaft dia./middle** 11.90,
**Total length** 162.00, **No./splines** 10,
**Rotation** ACR

## 139021# Planet Gear

**Replacing:** 1006200093
**Servicing:** 0001107047
**Shaft dia./middle** 11.90,
**Total length** 114.65, **No./splines** 10



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#Available while stock last, * Program development.

## 139509 Planet Gear

**Replacing:** 9001337094
**Servicing:** 0001218172, 0001218772
**Shaft dia./middle** 11.90,
**Total length** 135.70, **No./splines** 10

## 139969 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200201, 1006200195, 1006200095
**Servicing:** 0001106014, 0001107043, 0001107063, 0001107066, 0001107087, 0001107091, 0001107097, 0001107109, 0001107110, 0001107111
**Shaft dia./middle** 11.90,
**Total length** 110.55, **No./splines** 10

## 139976 Planet Gear

**Replacing:** 9001337098, 9001337097, 9001337091, 7001337097, 7001337091
**Servicing:** 0001218166, 0001218173, 0001218766
**Shaft dia./middle** 11.90,
**Total length** 135.55, **No./splines** 11

## 230158 Planet Gear

**Replacing:** 1006200027
**Servicing:** 0001109011, 0001109012, 0001110033, B001117229
**Shaft dia./middle** 11.90,
**Total length** 136.65, **No./splines** 10

## 230830 Planet Gear

**Replacing:** 1006200126
**Servicing:** 0001125055, 0001125056, 0001125501, 0001125502, 0001125503, 0001125504, 0001125507, 0001125508, 0001125511, 0001125512
**Shaft dia./middle** 14.15,
**Total length** 115.85, **No./splines** 16,
**No./teeth** 38,
*Gear wheel: HC-CARGO 134066.*

## 230833 Planet Gear

**Replacing:** 1006200155
**Servicing:** 0001108180, 0001108182, 0001108186
**Shaft dia./middle** 11.90,
**Total length** 125.25, **No./splines** 10

## 230912 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200206, 1006200161
**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, B001109104
**Shaft dia./middle** 11.90,
**Total length** 118.00, **No./splines** 11,
**Rotation** CR

## 231083 Planet Gear

**Replacing:** 9001336244, 6033AD3310, 6033AD3306
**Servicing:** 0001230001, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010, 0001230011
**Shaft dia./middle** 14.10,
**Total length** 180.25, **No./splines** 10

**Alternative no.:** 333594 5★

## 231202 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200137
**Servicing:** 0001121006, 0001121007, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121018, 0001121019
**Shaft dia./middle** 10.90,
**Total length** 114.15, **No./splines** 16,
**Rotation** ACR

## 233580 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200141
**Servicing:** 0001107062, 0001107083
**Shaft dia./middle** 11.90,
**Total length** 119.20, **No./splines** 10

## 233907 Planet Gear

**Replacing:** 1006200074
**Servicing:** 0001107033, 0001107061
**Shaft dia./middle** 11.90,
**Total length** 132.55, **No./splines** 10

## 234085 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200136
**Servicing:** 0001109034, 0001109063
**Shaft dia./middle** 11.90,
**Total length** 121.30, **No./splines** 10



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## 234142# Planet Gear

**Replacing:** 1006200185

**Servicing:** 0001124020, 0001124021

**Shaft dia./middle** 14.15,
**Total length** 125.20, **No./splines** 16

## 234156 Planet Gear

**Replacing:** 1006200150

**Servicing:** 0001109021, 0001109022, 0001109066, 0001109067, B001116092

**Shaft dia./middle** 11.90,
**Total length** 134.35, **No./splines** 10

## 234239 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200120

**Servicing:** 0001108167, 0001115008, 0001115016, 0001115017, 0001115020, 0001115021, 0001115025, 0001115031, 0001115032, 0001115039

**Shaft dia./middle** 12.00,
**Total length** 120.10, **No./splines** 10

## 234240 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200142

**Servicing:** 0001108197, 0001115005, 0001115006, 0001115009, B001115020

**Shaft dia./middle** 11.90,
**Total length** 139.90, **No./splines** 16

## 234323 Planet Gear w/ Drive

**Servicing:** 0001230006, 0001231002

**Total length** 172.00, **No./teeth** 9

## 234368 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200108

**Servicing:** 0001121001, 0001121002, 0001121030, 0001121031, 0001121032, 0001121033, 0001121034, 0001121035

**Shaft dia./middle** 10.90,
**Total length** 112.90, **No./splines** 16

## 234375 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 6033AD0063

**Servicing:** 0001223002, 0001223003, 0001223007, 0001223016, 0001223021, 0001223024

**Shaft dia./middle** 11.85,
**Total length** 142.00, **No./splines** 16

## 234396 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 6033AD0053

**Servicing:** 0001223001, 0001223008, 0001223009, 0001223010, 0001223013, 0001223014, 0001223022

**Shaft dia./middle** 11.90,
**Total length** 137.25, **No./splines** 16

## 235025 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200972, 1006200309, 1006200307, 1006200306, 1006200304, 1006200303

**Servicing:** 0001107401, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408, 0001107411, 0001107417, 0001107418

**Shaft dia./middle** 11.00,
**Total length** 109.70, **No./splines** 16,
**Rotation** CR

## 235399 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200493, 1006200310, 1006200302, 1006200301

**Servicing:** 0001107401, 0001107402, 0001107403, 0001107406, 0001107407, 0001107408, 0001107409, 0001107410, 0001107417, 0001107418

**Shaft dia./middle** 10.95,
**Total length** 110.00, **No./splines** 16,
**Rotation** CR

## 235579 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200178

**Servicing:** 0001109045, 0001109201, 0001109250, 0001110132, F000AL0115, F002G20795



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## 235704 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200909, 1006200163, 1006200152, 1006200090, 1006200039
**Servicing:** 0001109040, 0001110016, 0001110029, 0001110030, 0001110039, 0001110041, 0001110048, 0001110049, 0001110053, 0001110063
**Shaft dia./middle** 11.90,
**Total length** 139.90, **No./splines** 10,
**Rotation** CR

## 235866 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200154
**Servicing:** 0001109035
**Shaft dia./middle** 11.92,
**Total length** 116.80, **No./splines** 10,
**No./teeth** 13, **Rotation** CR

## 236813# Planet Gear

**Replacing:** 1006200157
**Servicing:** 0001107078
**Shaft dia./middle** 11.93,
**Total length** 111.00, **No./splines** 10,
**Rotation** CR

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## 237668 Planet Gear

**Replacing:** 1006200218
**Servicing:** 0001109300, 0001109301, 0001109332, 0001109333, 0001109344, 0001109345, 0001109369, 0001109370, 0001109371, 0001109405
**No./splines** 10

## 239780 Planet Gear

**Replacing:** 1007010128, 1006200319
**Servicing:** 0001107433, 0001107434, 0001107438, 0001107439, 0001107440, 0001107441, 0001107448, 0001107449, 0001107456, 0001107476
**Shaft dia./middle** 10.97,
**Total length** 109.11, **No./splines** 10,
**Rotation** CR

## 332236 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200214
**Servicing:** 0001109258, 0001109259, 0001109260, 0001109261
**Shaft dia./middle** 11.90,
**Total length** 135.50, **No./splines** 10,
**No./teeth** 37, **Rotation** CR

## 333350 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200026
**Servicing:** 0001108050, 0001108099, 0001108203, B001111098, B001111273
**Shaft dia./middle** 11.92,
**Total length** 130.23, **No./teeth** 10,
**Rotation** CR

## 333358 5★ Planet Gear w/ clutch

**Manufacturer:** Bosch
**Replacing:** 6033AD5359
**Servicing:** 0001241008, 0001241012, 0001241024, 0001241119, 0001261003, 0001261004, 0001261005, 0001261006, 0001261013, 0001261025
**Total length** 137.60, **No./splines** 14,
**No./teeth** 41, **Rotation** CR

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## 333403 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 2007010170, 2006209606
**Servicing:** 0001241128, 0001261003, 0001261004, 0001261005, 0001261006, 0001261013, 0001261023, 0001261025, 0001261026, 0001261027

## 333405 Planet Gear

**Replacing:** 1006200490, 1006200230
**Servicing:** 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109325, 0001109328, 0001109329, 0001109387, 0001109388
**Shaft dia./middle** 12.00,
**Total length** 128.50, **No./splines** 10,
**Rotation** CR

## 333423 Planet Gear

**Replacing:** 1006200929
**Servicing:** 0001115078, 0001115079, 0001115114, 0001115115
**Shaft dia./middle** 11.98,
**Total length** 121.00, **No./splines** 10,
**Rotation** CR

## 333464 5★ Planet Gear

**Manufacturer:** Bosch
**Replacing:** 1006200342
**Servicing:** 0001109306, 0001109307, 0001109321, 0001109322, 0001109342, 0001109343, 0001109365, 0001109366, 0001109375, 0001109376
**Shaft dia./middle** 11.98,
**Total length** 132.00, **No./splines** 10



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## 333550 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 1006200316

**Servicing:** 0001107429, 0001107431, 0001107432, 0001107437, F002G20485, F002G20917, F002G70069

**Shaft dia./middle** 10.91, **Total length** 109.44, **No./splines** 10, **No./teeth** 16, **Rotation** CR

**Alternative no.:** 236833

## 333594 5★ Planet Gear

**Manufacturer:** Bosch

**Replacing:** 9001336244, 6033AD3310, 6033AD3306

**Servicing:** 0001230004, 0001230005, 0001230006, 0001230007, 0001230009, 0001230013, 0001230027, 0001230030, 0001231012, 0001231016

**Shaft dia./middle** 14.10, **Total length** 180.50, **No./splines** 10, **No./teeth** 13

**Alternative no.:** 231083

## 333792 Planet Gear

**Replacing:** 1006200099, 1006200096

**Servicing:** 0001109014, 0001109018, 0001109025, 0001109026, 0001109030, 0001109033, 0001109036, 0001109041, 0001109048, 0001109200

**Shaft dia./middle** 11.95, **Total length** 125.50, **No./splines** 10, **No./teeth** 38, **Rotation** CR

**Alternative no.:** 138325 5★

# Gear Parts

## Outer Gear

Pkg. 5

## 131503 Outer Gear

**Replacing:** 1005821307, 1005821300

**Servicing:** 0001106001, 0001106002, 0001106015, 0001107005, 0001107006, 0001107092, 0001108004, 0001108019, 0001108023, 0001108024

**ID** 46.75, **OD** 70.00, **Height** 23.50, **No./teeth** 37

Pkg. 5

## 132123 Outer Gear

**Replacing:** 1005821303

**Servicing:** 0001109003, 0001109008, 0001109011, 0001109012, 0001110001, 0001110002, 0001110004, 0001110005, 0001110007, 0001110008

**ID** 52.50, **OD** 74.00, **Height** 39.70, **No./teeth** 42

## 135077 Outer Gear

**Replacing:** 9002338850

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

**ID** 52.50, **OD** 86.00, **Height** 30.00, **No./teeth** 42

Pkg. 5

## 135078 Outer Gear

**Replacing:** 1005821312

**Servicing:** 0001106014, 0001107003, 0001107004, 0001107007, 0001107008, 0001107009, 0001107011, 0001107012, 0001107013, 0001107015

**ID** 46.75, **OD** 70.00, **Height** 17.00, **No./teeth** 37

Pkg. 5

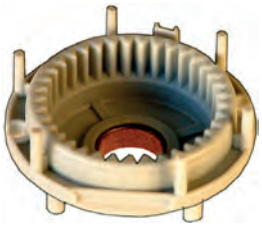
## 135079 Outer Gear

**Replacing:** 1005821313

**Servicing:** 0001109001, 0001109002

**ID** 53.00, **OD** 74.00, **Height** 17.50, **No./teeth** 42

Pkg. 5



## 137812 Outer Gear

**ID** 46.90, **OD** 70.00, **Height** 17.50, **No./teeth** 37

Pkg. 5

## 138991 Outer Gear

**Replacing:** 1005821321

**Servicing:** 0001107077, 1006200062, 1006200063, 1006200072

**ID** 44.65, **OD** 70.00, **Height** 16.50, **No./teeth** 36



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**231751** Outer Gear

**Replacing:** 9003337009

**Servicing:** 0001230001, 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010

**ID** 62.00, **OD** 90.00, **Height** 40.00, **No./teeth** 42

Pkg. 5

**233497** Outer Gear

**Servicing:** 1006200136

**ID** 48.75, **OD** 74.00, **Height** 17.50, **No./teeth** 38

Pkg. 5

**235105** Outer Gear

**Servicing:** 1006200138, 1006200162

**ID** 46.50, **OD** 70.00, **Height** 24.00, **No./teeth** 37

**333838** Outer Gear

**Replacing:** 1005821396

**ID** 17.97, **OD** 66.00, **Height** 22.11, **No./teeth** 36

## Gear Covers

Pkg. 5

**133466** Gear Cover

**Replacing:** 1005821352, 1005821308

**Servicing:** 0001107014, 0001107016, 0001107017, 0001107018, 0001107027, 0001107028, 0001107041, 0001108001, 0001108002, 0001108003

**ID** 18.00, **OD** 69.50, **Height** 28.00

Pkg. 5

**133467** Gear Cover

**Replacing:** 1005821306, 1005321306

**Servicing:** 0001109040, 0001110003, 0001110016, 0001110017, 0001110026, 0001110028, 0001110029, 0001110030, 0001110031, 0001110039

*Height 32.50 mm.*

Pkg. 5

**135970** Gear Cover

**Servicing:** 0001115068, 0001115069, 0001121023, 0001147404

**ID** 17.90, **OD** 70.00, **Height** 25.00

Pkg. 5

**139143** Gear Cover

**Replacing:** 1005821336, 1005821333

**Servicing:** 0001109315, 0001124020, 0001124021, 0001125053, 0001125054

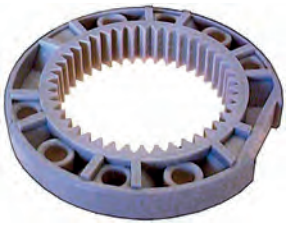
## Gear Wheels

**131992** Gear Wheel

**Replacing:** 9001140322

**Servicing:** 0001218001, 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010

**ID** 52.00, **OD** 86.00, **Height** 14.15, **No./teeth** 42



**132604** Gear Wheel

**Replacing:** 9001140322

**Servicing:** 0001218029, B001233158

**ID** 52.00, **OD** 86.00, **Height** 14.25, **No./teeth** 42

*As HC-CARGO 131992, but in plastic.*

**134035** Gear Wheel Kit

**Servicing:** 0001223504, 1006200006, 1006200021, 1006200902

**ID** 9.95, **OD** 19.30, **Height** 10.50, **No./teeth** 13

*w/ needle bearing.*

**Alternative no.:** B134035

**134066** Gear Wheel Kit

**Servicing:** 1006200015

**Shaft dia./middle** 2.10, **Total length** 10.10, **No./splines** 12, **Rotation** CR/ACR

**Alternative no.:** B134066



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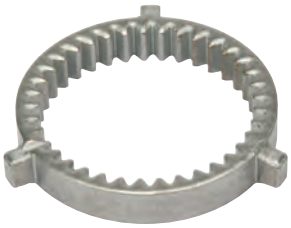


**134516** Gear Wheel

**Servicing:** 0001115068, 0001115069, 0001147404, 1006200017

**ID** 46.78, **OD** 57.70, **Height** 10.00, **No./teeth** 37

**Alternative no.:** B134516

**134875** Gear Wheel Kit

**ID** 5.00, **OD** 18.20, **Height** 12.00, **No./teeth** 12

*w/ needle bearing.*

**Alternative no.:** B134875

**135080** Gear Wheel

**ID** 52.23, **OD** 62.00, **Height** 13.50, **No./teeth** 42

**138989** Gear Wheel

**Servicing:** 0001124020, 0001124021, 0001125053, 0001125054

**ID** 48.70, **OD** 62.00, **Height** 13.50, **No./teeth** 38

**139278** Gear Wheel

**Servicing:** 1006200087, 1006200145

**ID** 44.50, **OD** 57.70, **Height** 10.00, **No./teeth** 36

**139572** Gear Wheel Kit

**Servicing:** 0001121023, 0001125053, 0001125054

**ID** 5.00, **OD** 18.00, **Height** 9.50, **No./teeth** 12

**Alternative no.:** B139572

Pkg. 3

**234919** Gear Wheel

**Servicing:** 1006200101

**ID** 46.40, **OD** 62.30, **Height** 13.30, **No./teeth**

Pkg. 5

**234925** Gear Wheel

**Servicing:** 6033AC5060, 9001336244

**ID** 61.50, **OD** 76.00, **Height** 16.50, **No./teeth** 41

Pkg. 10

**235173** Gear Wheel

**Servicing:** 0001107072, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016, 0001121017, 0001121026, 0001121027, B001120046

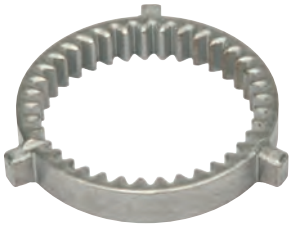
**ID** 48.50, **OD** 58.00, **Height** 10.00, **No./teeth** 40

Pkg. 100

**B134035** Gear Wheel

**Alternative no.:** 134035

Pkg. 50



**B134516** Gear Wheel

**Alternative no.:** 134516

## Gear Plates

**133468** Gear Plate

**Servicing:** 0001107014, 0001107016, 0001107031, 0001107037, 0001107041, 0001107045, 0001107048, 0001107049, 0001107059, 0001107070

**ID** 18.50, **OD** 70.00, **Thickness** 12.00, **Gasket** w/o



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Pkg. 5

## 133469 Gear Plate

**Servicing:** 0001109021, 0001109022, 0001109040, 0001110016, 0001110017, 0001110028, 0001110029, 0001110030, 0001110031, 0001110039

**ID** 25.50, **OD** 74.00

Pkg. 10

## 133475 Gear Plate

**Replacing:** 1000520035

**Servicing:** 0001107076, 1006200006, 1006200018

**ID** 18.50, **OD** 60.00, **Thickness** 8.90

Pkg. 5

## 133476 Gear Plate

**Servicing:** 1006200015, 1006200021

**ID** 25.50, **OD** 74.00, **Thickness** 9.00, **Gasket** w/o

Pkg. 5

## 135082 Gear Plate

**ID** 26.00, **OD** 87.00, **Thickness** 1.00, **No./mount. holes** 2

## 234537 Gear Plate

**Replacing:** 1000520048

**Servicing:** 0001124020, 0001124021, 0001125053, 0001125054, 1006200099, 1006200117, 1006200118, 1006200126, 1006200166, 1006200178

**ID** 22.65, **OD** 71.80, **Thickness** 8.30

Pkg. 10

## 235136 Gear Plate

**Servicing:** 0001106012, 0001106014, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107011, 0001107019, 0001107039

**ID** 18.50, **OD** 70.00, **Thickness** 7.77

Pkg. 5

## 235164 Gear Plate

**Servicing:** 9001336244

**ID** 27.30, **OD** 90.60

### Rubbers

Pkg. 3

## 133478 Rubber Seal

**Servicing:** 0001124020, 0001124021, 0001125053, 0001125054, 1006200019, 1006200902, 1006200904

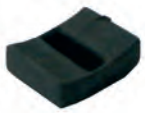
**Length** 20.00, **Thickness** 14.00

Pkg. 10

## 135056 Rubber Seal

**Length** 25.00, **Thickness** 14.00

Pkg. 10



## 139173 Rubber Seal

**Length** 14.00, **Thickness** 20.00

Pkg. 10

## 232853 Rubber Seal

**Replacing:** 9003332320, 232853

**Servicing:** 0001230006, 0001230012, 0001230014, 0001230020, 0001230021, 0001230022, 0001230026, 0001230028, 0001230029, 0001231002

**Length** 19.00, **Thickness** 30.00

Pkg. 10

## 234887 Rubber Seal

**Replacing:** 1001012005

**Servicing:** 0001115068, 0001115069, 0001120411, 0001121023, 0001147404, 1006200017, 1006200209, 1006200903

*Height 20.00 mm. Lenght 12.00 mm.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



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## Rivets

Pkg. 10

### 134068 Rivet

**Servicing:** 1006200006, 1006200021, 1006200902

**OD** 6.00, **OD/collar** 12.50, **Length** 21.30, **Height/collar** 2.00, **Collar** w/

Pkg. 10

### 134069 Rivet

**Servicing:** 1006200015, 1006200904

**OD** 5.00, **OD/collar** 12.00, **Length** 21.30, **Height/collar** 2.00, **Collar** w/

Pkg. 10

### 135866 Rivet

**Servicing:** 1006200037

**OD** 6.00, **OD/collar** 12.50, **Length** 16.70, **Height/collar** 2.00, **Collar** w/

Pkg. 10

### 139671# Rivet

**Servicing:** 0001109001, 0001109002, 0001125001, 0001125011

**OD** 5.00, **OD/collar** 12.00, **Length** 17.90, **Height/collar** 2.00, **Collar** w/

## Repair Kits

### 134160 Repair Kit

## Various

Pkg. 5

### 133470 Gear Ring

**Replacing:** 1000290037

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108009, 0001108010, 0001108018, 0001108026, 0001108027, 0001108042, 0001108054

**ID** 50.52, **OD** 70.00, **Height** 17.25

Pkg. 25

### 133471 Gear Ring

**Servicing:** 0001109014, 0001109021, 0001109022, 0001109036, 0001109040, 0001110003, 0001110016, 0001110017, 0001110026, 0001110029

**OD** 74.00, **Height** 11.50

Pkg. 5

### 135971 Gear Ring

**Servicing:** 0001107014, 0001107016, 0001107017, 0001107018, 0001107027, 0001107028, 0001107037, 0001107041, 0001107045, 0001107048

**ID** 50.25, **OD** 70.00, **Height** 11.50

Pkg. 5

### 231382 Gear Ring

**Replacing:** 1000290013

**Servicing:** 0001107031, 0001107037, 0001107048, 0001107049, 0001107070, 0001107071, 0001107072, 0001108157, 0001108169, 0001108190

**ID** 50.30, **OD** 69.80

Pkg. 10

### 231833 Gear Ring

**Replacing:** 1000290018

**Servicing:** 0001109014, 0001109018, 0001109025, 0001109026, 0001109030, 0001109033, 0001109036, 0001109041, 0001109045, 0001109048

**ID** 57.80, **OD** 74.30, **Height** 12.80

Pkg. 10

### 234227 Fiber Washer

**ID** 22.00, **OD** 35.60, **Thickness** 1.00, **Material** Fiber

Pkg. 10

### 235073 Fiber Washer

**Servicing:** 0001218162, 0001218165, 0001218166, 0001218172, 0001223001, 0001223002, 0001223003, 0001223005, 0001223007, 0001223013

**ID** 19.00, **OD** 27.00, **Thickness** 1.00, **Material** Fiber



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Pkg. 10

## 235074 Fiber Washer

**Servicing:** 0001218172, 0001223001, 0001223002, 0001223003, 0001223005, 0001223007, 0001223013, 0001223014, 0001223024

**ID** 18.00, **OD** 33.00, **Thickness** 1.00, **Material** Fiber

Pkg. 10

## 235299 Washer

**Replacing:** 1000101032

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107003

**ID** 18.10, **OD** 33.80, **Thickness** 0.80, **Material** Metal

# Levers

## 131138 Lever

**Replacing:** 2001933175, 2001933174, 2001933104

**Servicing:** 0001358048, 0001358049, 0001358050, 0001358051, 0001358200, 0001358201, 0001358202, 0001359008, 0001359043, 0001359049

**Dist.** 36.30, **ID** 8.35, **Length** 104.70

Pkg. 5

## 132808 Lever

**Replacing:** 1001933111, 1001933110, 1001933108, 1001933106

**Servicing:** 00010DB98E, 0001105205, 0001106001, 0001106002, 0001106004, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016

**Dist.** 41.40, **Length** 86.50

**Alternative no.:** 333537 5★

## 135327 Lever

**Replacing:** 1001933103

**Servicing:** 0001312108, 0001312109, B001335003

**Dist.** 44.40, **Length** 96.15

## 135777 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 1001933101

**Servicing:** 0001208501, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518, 0001208519

**Dist.** 40.35, **Length** 92.70

## 136242 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 1001933072

**Servicing:** 0001311100, 0001311107, 0001311110, 0001311111, 0001311118, 0001311121, 0001311122, 0001311125, 0001311128, 0001311129

**Dist.** 31.80, **ID** 6.10, **Length** 94.60

## 136298 Lever

**Replacing:** 1001933104, 1001933100

**Servicing:** 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012, 0001317013, 0001317014, 0001317015, 0001317016

**Dist.** 36.00, **Length** 97.30

## 137617 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 2001933149, 2001933148

**Servicing:** 0001358049, 0001359008, 0001359014, 0001359016, 0001359020, 0001359023, 0001359025, 0001359027, 0001359030, 0001359032

**Dist.** 37.60, **ID** 8.20, **Length** 101.20

## 139060 Lever

**Replacing:** 2001933056

**Servicing:** 0001204102, 0001204103, 0001208044, 0001208049, 0001208051, 0001208052, 0001208053, 0001208054, 0001208055, 0001208100

**Dist.** 32.00, **ID** 5.90, **Length** 88.40

## 139700 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 9003331931, 6033AC4002

**Servicing:** 0001223500, 0001223501, 0001223502, 0001223503, 0001223504, 0001223505, 0001223506, 0001223507, 0001230001, 0001230002

**Dist.** 48.65, **Length** 99.50



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## 139807 Lever

**Replacing:** 1001933084

**Servicing:** 0001212204, 0001212205, 0001212206, 0001212207, 0001212208, 0001212209, 0001212210, 0001212211, 0001212212, 0001212213

**Dist.** 42.55, **ID** 6.10, **Length** 89.40

## 139811 Lever

**Replacing:** 2001933021

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**Dist.** 37.90, **ID** 8.15, **Length** 109.50

## 233570 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 1001933126

**Servicing:** 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001107401, 0001107402, 0001107403

**Dist.** 31.20, **Length** 81.80

## 234052# Lever

**Replacing:** 1001933113

**Servicing:** 0001116001, F002G20149, F002G20170, F002G20544

**Dist.** 50.15, **Length** 90.00

Pkg. 5

## 234890 Lever

**Servicing:** 0001107030, 0001107075, 0001107079, 0001109034, 0001110132, F000AL0319

*Lever w/ support.*

## 333408 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 2007010150

**Servicing:** 0001260004, 0001260025, 0001260026, 0001261003, 0001261004, 0001261005, 0001261006, 0001261013, 0001261023, 0001261025

**Dist.** 47.00, **Length** 98.50

## 333537 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 1001933111, 1001933110, 1001933108, 1001933106

**Servicing:** 0001106011, 0001106014, 0001106016, 0001106023, 0001106024, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007

**Dist.** 43.80, **Length** 89.80

**Alternative no.:** 132808

# Lever Parts

## Various

Pkg. 5

## 132226 Pivot Pin

**Replacing:** 2003429066, 2003429063, 2003429025, 2003429000, 2003421012

**Servicing:** 0001358048, 0001358049, 0001358200, 0001358201, 0001358202, 0001359016, 0001359049, 0001359072, 0001359073, 0001359075

**Total length** 40.25, **Length/rear collar** 36.00, **Thread length** 10.40, **Thread size** M8

Pkg. 10

## 134143# Lever Support

**ID** 36.00, **OD** 48.85, **Thickness** 4.00, **Material** Plastic

Pkg. 10

## 134616 Lever Support

**Replacing:** 1000113009

**Servicing:** 0001147404, 1006209570

Pkg. 5

## 136283 Lever Support

**Servicing:** 0001107005, 0001107006, 0001107014, 0001107027, 0001107028, 0001107033, 0001107041, 0001108003, 0001108011, 0001108012

**ID** 7.40, **Length** 33.00



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Pkg. 5

## 137791 Lever Support

**Servicing:** 0001106011, 0001106014, 0001106015, 0001107019, 0001107030, 0001107031, 0001107038, 0001107049, 0001107059, 0001107063

**ID** 7.20, **Length** 29.00

Pkg. 5

## 138221 Lever Support

**Replacing:** 1001328046

**Servicing:** 0001106012, 0001106017, 0001106019, 0001106022, 0001106023, 0001106024, 0001107003, 0001107004, 0001107007, 0001107008

**ID** 7.15, **Length** 23.90

Pkg. 5

## 138597 Lever Support

**Servicing:** 0001108001, 0001108002, 0001108004, 0001108005, 0001108006, 0001108009, 0001108010, 0001108033, 0001208513, 0001208514

**ID** 6.75, **Length** 31.00

Pkg. 5

## 138598 Lever Support

**Servicing:** 0001208515, 0001208517, 0001208526, 0001208528, 0001208717, 0001218168, 0001218171, 0001218172, 0001218768, 0001218772

**ID** 7.25, **Length** 27.80

Pkg. 5

## 139814 Pivot Pin

**Replacing:** 2003429071, 2003429069, 2003429065, 2003429064

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**Total length** 60.00,
**Length/rear collar** 58.35,
**Thread length** 15.55, **Thread size** M8

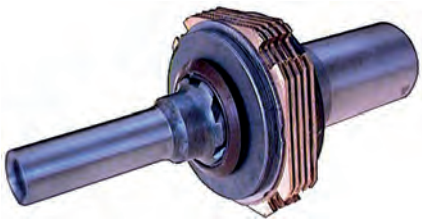
Pkg. 10

## 233527 Lever Spacer

**Servicing:** 0001371004, 0001371006, 0001371008, 0001372001, 0001372002, 0001372003, 0001372005, 0001372006, 0001372007, 0001372008

**Total length** 14.20/28.80,
**Thread length** 3.10,
**Thread size/external** 10.50
*Lever: HC-CARGO 139811.*

## Clutches



## 130317 Clutch

**Replacing:** 2006401527, 2003162016, 2003162006, 2003162005, 2003162001

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**OD** 9.70, **Total length** 166.00,
**No./splines** 6, **Rotation** CR

**Alternative no.:** 333732 5★

## 130328 Clutch

**Replacing:** 2009999032, 2006401908, 2006401904, 2006401903

**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402008, 0001402018

## 135375 Clutch

**Manufacturer:** Remy

**Replacing:** 2000780133

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510008, 0001510009, 0001510010, 0001510011, 0001510012

**OD** 75.75, **Total length** 176.00
*Clutch set: HC-CARGO 235672.*

## 235672 5★ Clutch Kit

**Manufacturer:** Bosch

**Replacing:** 2007010044

**Servicing:** 0001510000, 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018

**ID** 46.00/47.60, **OD** 65.40/75.50,
**Thickness** 0.90/1.40

## 333407 5★ Clutch

**Manufacturer:** Bosch

**Replacing:** 2007010160, 2006209558

**Servicing:** 0001241003, 0001241014, 0001241119, 0001241128, 0001261003, 0001261004, 0001261005, 0001261006, 0001261012, 0001261013

**Total length** 130.60, **No./splines** 19
*O.D. clutch: 72.45 mm.*

## 333732 5★ Clutch

**Manufacturer:** Bosch

**Replacing:** 2006401527, 2003162016, 2003162006, 2003162005, 2003162001

**OD** 65.90, **Total length** 165.60, **Rotation** CR

**Alternative no.:** 130317

## Clutch Parts

### Various

Pkg. 10

## 131445 5★ Washer

**Replacing:** 2000105040

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**ID** 41.10, **OD** 57.60, **Thickness** 0.50

*Bosch.*

## 231369 Clutch Housing

**Servicing:** 0001410015, 0001410016, 0001410024, 0001410037, 0001410041, 0001410044, 0001410046, 0001410053, 0001410063, 0001410065

## Brush Gears

## 130684 Brush Gear

**Replacing:** 1004336049, 1004336034, 1004336028, 1001329900

**Servicing:** 0001208172, 0001208200, 0001208201, 0001208202, 0001208203, 0001208204, 0001208205, 0001208206, 0001208208, 0001208209

**OD** 83.00

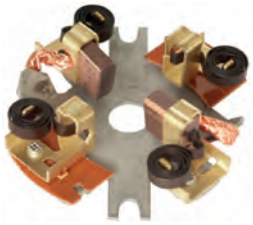
*Neg. brushes. Brush set: HC-CARGO BSX984.*

## 130685 Brush Gear

**Replacing:** 1004336055, 1004336029, 1004336025

**Servicing:** 0001208053, 0001208054, 0001208200, 0001208201, 0001208203, 0001208205, 0001208206, 0001208208, 0001208209, 0001208211

**OD** 82.80



## 130688 Brush Gear

**Replacing:** 1007010027, 1004336057, 1004336033

**Servicing:** 0001207001, 0001207005, 0001207016, 0001207017, 0001207018, 0001207019, 0001208009, 0001208019, 0001208020, 0001208026

**OD** 82.85

*w/ neg. springs and brushes. Brush set: HC-CARGO BSX124f4.*

## 131184 Brush Gear

**Replacing:** 2004336027, 2001329907

**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038, 0001362039, 0001362040, 0001362041

**OD** 86.25

*Neg. brushes. Brush set: HC-CARGO BSX974.*

## 131185 Brush Gear

**Replacing:** 2009994110, 2004336046, 2004336031

**Servicing:** 0001368001, 0001368002, 0001368004, 0001368005, 0001368006, 0001368007, 0001368009, 0001368010, 0001368012, 0001368013

24 **V**, **OD** 93.00

*Neg. brushes. Brush set: HC-CARGO BSX135-1454.*

**Alternative no.:** 333293 5★, 333635

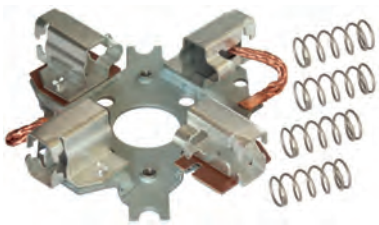
## 132303 Brush Gear

**Replacing:** 2004336067, 2004336044, 2004336028

**Servicing:** 0001367001, 0001367002, 0001367003, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010

12 **V**, **OD** 86.25

*Neg. brushes. Brush set: HC-CARGO BSX134-1444.*



## 132304 Brush Gear

**Replacing:** 2004336026

**Servicing:** 0001363101, 0001363103, 0001363104, 0001363105, 0001363106, 0001363107, 0001363108, 0001363109, 0001363110, 0001363111

**OD** 86.70

*Neg. brushes. Brush set: HC-CARGO BSX1164.*



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#Available while stock last, * Program development.

## 132306 Brush Gear

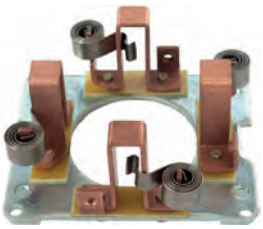
**Replacing:** 2004336041

**Servicing:** 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362041, 0001362046, 0001362050, 0001362051, 0001362052

**OD** 86.75

*Neg. brushes. Brush set: HC-CARGO BSX137-1434.*

**Alternative no.:** 333497 5★



## 133558 Brush Gear

**Replacing:** 2004336051

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

**OD** 82.75

*Brush set: HC-CARGO BSX1474.*

## 134025 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336021, 2004336010, 2001329901

**Servicing:** 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006, 0001362007, 0001362008, 0001362009, 0001362010

**OD** 89.85

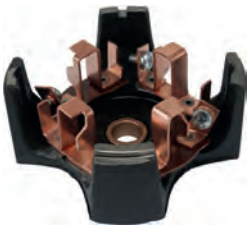
*Neg. brushes. Brush set: HC-CARGO BSX1024.*

## 134092 Brush Gear

**Replacing:** 2005854136, 2005854084, 2005854053

**Servicing:** 0001358200, 0001358201, 0001358202, 0001359001, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359013

12 **V**, **OD** 104.20



## 134093 Brush Gear

**Replacing:** 2005854901, 2005854081, 2005854052, 2005854046, 2005854041

**Servicing:** 0001359012, 0001359062, 0001359065, 0001359100, 0001360002, 0001360004, 0001360005, 0001360007, 0001360008, 0001360010

24 **V**, **OD** 107.70/103.70

## 134103 Brush Gear

**Replacing:** 1004336900, 1004336108, 1004336107, 1004336101, 1004336100

**Servicing:** 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012, 0001317013, 0001317014

**OD** 82.50

**Alternative no.:** 333638

## 134104 Brush Gear

**Replacing:** 1004336901, 1004336102

**Servicing:** 0001208506, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518, 0001208519, 0001208520

**OD** 82.70

**Alternative no.:** 333298

## 134658 Brush Gear

**Replacing:** 2004336214, 2004336209, 1004336998, 1004336974, 1004336968, 1004336965, 1004336961, 1004336960

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108007, 0001108009, 0001108010, 0001108011, 0001108012, 0001108013

**OD** 67.60

**Alternative no.:** 333296 5★, 333639

## 134659 Brush Gear

**Replacing:** 2004336238, 2004336230, 1004336991, 1004336983, 1004336958, 1004336947, 1004336933, 1004336927

**Servicing:** 0001109011, 0001110001, 0001110002, 0001110009, 0001110010, 0001110014, 0001110015, 0001110018, 0001110031, 0001110032

12 **V**, **OD** 72.85

**Alternative no.:** 333595 5★, 333640

## 134660 Brush Gear

**Replacing:** 2004336234, 1004336999, 1004336997, 1004336994, 1004336984, 1004336981, 1004336976, 1004336959

**Servicing:** 0001109015, 0001109021, 0001109022, 0001109034, 0001109041, 0001109042, 0001109046, 0001109052, 0001109055, 0001109061

**OD** 66.35

**Alternative no.:** 333641, 333291 5★

## 134661 Brush Gear

**Replacing:** 9003334355, 9003334343, 9003334314

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

12 **V**, **OD** 85.50

**Alternative no.:** 333642

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## 134868 Brush Gear

**Replacing:** F000AL1055, 9000081094, 1004336992, 1004336963, 1004336916, 1004336915, 1004336834, 1004336815

**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014, 0001112015, 0001112016

**OD** 67.25

*HC-CARGO B134868.*

**Alternative no.:** 333290 5★, 333643

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## 134901 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2005854087

**Servicing:** 0001359021, 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364108, 0001364200, 0001364203

*Brush set: HC-CARGO BSX1004. Brush spring: HC-CARGO 132224.*

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## 135015 Brush Gear

**Replacing:** 2004336215, 1004336987, 1004336951, 1004336937, 1004336831, 1004336821, 1004336810, 1004336746

**Servicing:** 0001106014, 0001106016, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107009, 0001107011

12 **V**, **OD** 68.00

**Alternative no.:** 333287 5★, 333644

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## 135235 Brush Gear

**Replacing:** 2004336219, 1004336923, 1004336919, 1004336911, 1004336811, 1004336772, 1004336467, 1004336426

**Servicing:** ACR, 0001108021, 0001108050, 0001108059, 0001108060, 0001108076, 0001108077, 0001108094, 0001108095, 0001108096

**OD** 63.90

**Alternative no.:** 333539 5★

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## 136418 Brush Gear

**Replacing:** F000AL1483, 1004336938, 1004336753, 1004336433

**Servicing:** 0001107010, 0001107013, 0001107015, 0001107038, 0001107044, 0001108200, 0001108201, 0001112019, 0001112032, 0001113006

**OD** 64.65

**Alternative no.:** 333294 5★

---

## 136557 Brush Gear

**Replacing:** 2004336221, 2004336220, 1004336975, 1004336970, 1004336964, 1004336957, 1004336842, 1004336827

**Servicing:** 0001106011, 0001106014, 0001106015, 0001107009, 0001107012, 0001107014, 0001107015, 0001107016, 0001107017, 0001107018

12 **V**, **OD** 68.00

**Alternative no.:** 333286 5★, 333645

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## 137137 Brush Gear

**Replacing:** 2004336064

**Servicing:** 0001368083, B001816570

**OD** 93.00

*Brush set: HC-CARGO BSX135-1454. Brush springs: HC-CARGO 132223.*

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## 137268 Brush Gear

**Replacing:** F000AL2035, 1004336939

**Servicing:** 0001112017, B001180054

**OD** 72.50

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## 137618 Brush Gear

**Replacing:** 1004336985, 1004336716, 1004336391

**Servicing:** 0001106018, 0001106019, 0001107037, 0001107048, 0001107056, 0001107072, 0001107096, 0001107100, 0001107101, 0001107108

**OD** 66.25

**Alternative no.:** 333302, 233565 5★

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#Available while stock last, * Program development.

## 137703 Brush Gear

**Replacing:** 2004336245, 1004336948, 1004336946, 1004336908, 1004336835, 1004336802, 1004336622, 1004336463

**Servicing:** 0001110003, 0001110026, 0001110080, 0001110089, 0001110095, 0001110114, 0001110132, 0001115001, 0001125501, 0001125502

12 **V**, **OD** 66.45

**Alternative no.:** 333289 5★

## 138201 Brush Gear

**Replacing:** F000AL2034, 1004336969, 1004336940

**Servicing:** 0001112018, 0001112034, 0001112039, 0001113011, 0001113012, B001180041, B001180055

12 **V**, **OD** 72.35

**Alternative no.:** 333295 5★

## 138319 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336066

**Servicing:** 0001364300, 0001364301, 0001364400, 0001364402, B001841010, B001841012

**OD** 85.70

*Brush set: HC-CARGO BSX170-1714. Brush spring: HC-CARGO 132223.*

## 138320 Brush Gear

**Replacing:** 1004336046, 1004336043, 1004336040, 1004336039, 1004336036, 1004336016, 1004336013

**Servicing:** 0001311047, 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311101, 0001311102, 0001311103

**OD** 85.55

*w/ springs and neg. brushes. Brush set: HC-CARGO BSX1064.*

## 138326 Brush Gear

**Replacing:** 1004336986, 1004336973, 1004336971, 1004336944, 1004336922, 1004336832, 1004336823, 1004336436

**Servicing:** 0001108051, 0001108052, 0001108074, 0001108123, 0001108125, 0001108130, 0001108138, 0001108143, 0001108148, 0001108154

12 **V**, **OD** 63.45

## 138424 Brush Gear

**Servicing:** ACR, 0001218104, 0001218116, 0001218117, 9000331201, 9000331203

12 **V**, **OD** 83.35

## 138899 Brush Gear

**Replacing:** F000AL1919, 1004336928, 1004336917, 1004336846, 1004336844, 1004336817

**Servicing:** 0001112003, 0001112004, 0001112010, 0001112011, 0001112038, 0001112039, 0001113011, 0001113012, 0001114005, 0001114006

12 **V**, **OD** 64.90

*Brush pos.: HC-CARGO BS175. Brush neg.: HC-CARGO BS176.*

**Alternative no.:** 333301 5★

## 138900 Brush Gear

**Replacing:** 2004336241, 1004336996, 1004336881, 1004336836, 1004336829, 1004336778, 1004336472, 1004336445

**Servicing:** 0001109014, 0001109018, 0001109025, 0001109028, 0001109030, 0001109033, 0001109036, 0001109040, 0001109043, 0001109045

12 **V**, **OD** 67.25

*Brush pos.: HC-CARGO BS157. Brush neg.: HC-CARGO BS158.*

**Alternative no.:** 333576 5★, 333690

## 138901 Brush Gear

**Replacing:** 1004336830, 1004336745, 1004336416

**Servicing:** 0001106022, 0001106023, 0001106024, 0001107070, 0001107071

**OD** 66.00

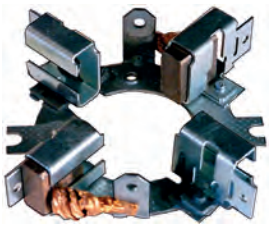
## 138904 Brush Gear

**Replacing:** F000AL1918, 1004336993, 1004336843

**Servicing:** 0001112020, 0001112027, 0001112028, 0001112033, 0001112035, 0001112037, 0001112041, 0001112044, 0001112045, 0001113001

**OD** 64.75

**Alternative no.:** 333584 5★



## 139022 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 9001083569, 9001083392, 9001083362

**Servicing:** 9000083027, 9000083028, 9000083049, 9000083053, 9000083054, 9000083055, 9000083056, 9000083057, 9000083058, 9000083059

**OD** 81.35

*Neg. brushes. Brush set: HC-CARGO 141008.*

## 139144 Brush Gear

**Replacing:** 1004336816, 1004336300

**Servicing:** 0001108157, 0001108169, 0001108171, 0001108178, 0001108184, 0001108188, 0001108190, 0001108196, 0001108245

**OD** 63.85

**Alternative no.:** 333538 5★

## 139146 Brush Gear

**Replacing:** 1004336988, 1004336257

**Servicing:** 0001109011, 0001109012

**OD** 66.90

**Alternative no.:** 333303 5★

## 139428 Brush Gear

**Replacing:** 2004336240, 1004336990, 1004336860, 1004336738, 1004336737, 1004336409, 1004336408

**Servicing:** 0001125001, 0001125002, 0001125007, 0001125008, 0001125009, 0001125010, 0001125012, 0001125013, 0001125016, 0001125017

12 **V**, **OD** 67.20

**Alternative no.:** 333288 5★, 333691

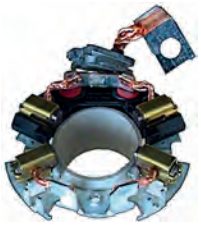
## 139505 Brush Gear

**Replacing:** 1004336009

**Servicing:** 0001208004, 0001208006, 0001208007, 0001208017, 0001208018, 0001208029, 0001208036, 0001208037, 0001208059, 0001208249

**OD** 78.40

*Neg. brushes. Brush set: HC-CARGO BSX1244.*



## 139550 Brush Gear

**Replacing:** F000AL2051, F000AL2050, 1004336838, 1004336822

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009

12 **V**, **OD** 72.60

**Alternative no.:** 333297 5★, 333649

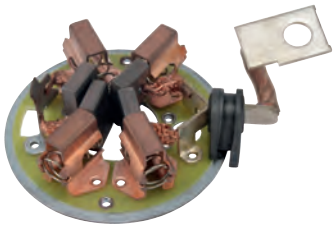
## 139638 Brush Gear

**Replacing:** 2004336237, 1004336956, 1004336804, 1004336741, 1004336730, 1004336412, 1004336400

**Servicing:** 0001109001, 0001109002, 0001109003, 0001109006, 0001109007, 0001109008, 0001109009, 0001109017, 0001109026, 0001109049

**OD** 64.75

**Alternative no.:** 333559 5★



## 139698 Brush Gear

**Replacing:** 9003334363, 6033AD4180, 6033AD4161, 6033AD4026, 6033AD0471, 6033AD0380, 6033AD0156, 6033AD0130

**Servicing:** 0001231002, 0001231003, 0001231006, 0001231010, 0001231011, 0001231012, 0001231014, 0001231016, 0001231017, 0001231032

28 **V**, **OD** 90.75

**Alternative no.:** 333300 5★, 333650

## 139885 Brush Gear

**Replacing:** 2004336004, 2004335004

**Servicing:** 0001402043, 0001402054, 0001402055, 0001402059, 0001402075, 0001402081, 0001402083, AL63/30P11, BNG4/24, BNG4/24CR231

**OD** 90.00

*Brush set: HC-CARGO BSX344. Brush springs: HC-CARGO 134442.*

## 230182 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336873, 1004336824, 1004336743, 1004336598, 1004336414

**Servicing:** 0001115005, 0001115006, 0001115008, 0001115009, 0001115012, 0001115016, 0001115017, 0001115024, 0001115049, 0001115050

**OD** 68.30

**Alternative no.:** 333968



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## 230843 Brush Gear

**Replacing:** 2004336078

**Servicing:** 0001371004, 0001371006, 0001371008, 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001371019, 0001371020

24 **V**, **OD** 111.00

**Alternative no.:** 333299 5★, 333652

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## 231084 Brush Gear

**Replacing:** 2004336087, 2004336085

**Servicing:** 0001372001, 0001372004, 0001372006, 0AA137200B, 0AA137200F, 0AA137200G, B001960018

24 **V**, **OD** 96.59

*w/ springs and neg brushes. Brush set: HC-CARGO BSX170-1714.*

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## 231648 Brush Gear

**Replacing:** 6033AD1250, 6033AD1246, 6033AD1244, 6033AD0401, 6033AD0368, 6033AD0159, 6033AD0014

**Servicing:** 0001223001, 0001223003, 0001223005, 0001223007, 0001223010, 0001223011, 0001223012, 0001223013, 0001223014, 0001223016

12 **V**, **OD** 86.00

*Spring: HC-CARGO 135004.*

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## 232183 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336226, 1004336989, 1004336833, 1004336717, 1004336444, 1004336392

**Servicing:** 0001107047, 0001107077, 0001107098

**OD** 68.40

**Alternative no.:** 333969

---

## 232700 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1104336702, 1004336866, 1004336718, 1004336711, 1004336703, 1004336702, 1004336608, 1004336542

**Servicing:** 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408, 0001107409, 0001107410

**OD** 56.55

**Alternative no.:** 333967

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## 233565 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336212, 1004336853, 1004336368

**Servicing:** 0001106012, 0001106017, 0001106022, 0001106023, 0001106024, B001109104

**OD** 68.35

**Alternative no.:** 137618

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## 234118 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336077

**Servicing:** 0001371005, 0001371007, 0001371009, 0001371012, 0001371014, 0001371017

**OD** 110.50

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## 234475 Brush Gear

**Replacing:** 2004336217, 1004336980, 1004336762, 1004336740, 1004336439, 1004336434, 1004336423, 1004336411

**Servicing:** 0001107031, 0001107032, 0001108004, 0001108019, 0001108020, 0001108025, 0001108026, 0001108027, 0001108053, 0001108063

**OD** 68.50

**Alternative no.:** 333285 5★

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## 234788 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336086

**Servicing:** 0001372002, 0001372003, 0001372005, 0001372007, 0001372008, B001860021, B001860023

**OD** 85.75

*w/ springs and neg. brush. Brush set: HC-CARGO BSX170-1714. Brush spring: HC-CARGO 231709.*

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#Available while stock last, * Program development.

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## 234896 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336878, 1004336750, 1004336619, 1004336549

**Servicing:** 0001125008, 0001125021, 0001125022, 0001125031, 0001125032, 0001125042, 0001125043, 0001125046, 0001125047, 0001125051

12 **V**, **OD** 63.00

**Alternative no.:** 333655

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## 234947 Brush Gear

**Replacing:** 9003334368, 6033AD3328, 6033AD3023, 6033AD3022, 6033AD0374, 6033AD0370, 6033AD0166

**Servicing:** 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010, 0001230011

12 **V**, **OD** 90.90

**Alternative no.:** 333574 5★

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## 235024 Brush Box

**Replacing:** 1004336699

**Servicing:** 0001139017, 0001139018, 0001139019, 0001139020

12 **V**, **OD** 72.70

*Start & Stop.*

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## 235072 Brush Gear

**Replacing:** 1004337006

**Servicing:** 0001153001, 0001153002, 0001153007, 0001153008, 0001153009, 0001153010, 0001153015, 0001153016

12 **V**, **OD** 69.20

*Start & Stop.*

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## 235090 Brush Gear

**Replacing:** 1004337042, 1004337029, 1004337013

**Servicing:** 0001148003, 0001148004, 0001148009, 0001148010, 0001148015, 0001148016, 0001148023, 0001148024

12 **V**, **OD** 69.20

*Start & Stop.*

---

## 235091 Brush Box

**Replacing:** 1004337019

**Servicing:** 0001139041, 0001139042, 0001139073, 0001139074

12 **V**, **OD** 72.70

*Start & Stop.*

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## 235281 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** F000AL1921, 1004336861

**Servicing:** 0001116008

12 **V**

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## 235401 Brush Box

**Replacing:** 1004336899, 1004336890, 1004336876, 1004336798, 1004336754, 1004336678, 1004336677, 1004336667

**Servicing:** 0001107476, 0001107477, 0001115008, 0001115021, 0001115025, 0001115040, 0001115041, 0001115045, 0001115046, 0001115048

12 **V**, **OD** 69.25

**Alternative no.:** 333304 5★

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## 235406 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336626, 1004336625, 1004336570

12 **V**, **OD** 73.60

**Alternative no.:** 335176

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## 235459 Brush Gear

**Replacing:** 1004336886, 1004336708, 1004336531

**Servicing:** 0001108401, 0001108403, F002G20670, F004A94004

12 **V**, **OD** 56.50

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## 235529 Brush Box

**Replacing:** 1004336669, 0011516314

**Servicing:** 0001115074, 0001115075, 0001115077

**OD** 68.80

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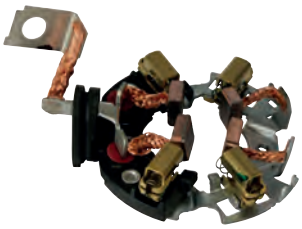
## 235531 Brush Gear

**Replacing:** 1004336896, 1004336879, 1004336655, 1004336519, 1004336506

**Servicing:** 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001120400, 0001120401, 0001120402

**OD** 56.50

**Alternative no.:** 333292 5★



## 235724 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** F000AL1483, F000AL1326, 1004336967, 1004336953, 1004336952

**Servicing:** 0001112008, 0001112015, 0001112019, 0001112032, 0001112035, 0001113006, 0001114020, 0001114021, 0001114022, B001180044

12 **V**, **OD** 73.80

## 235741 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336784, 1004336574

**Servicing:** 0001109064, 0001109065, 0001109250, 0001109264, 0001109300, 0001109301, 0001109304, 0001109305, 0001109310, 0001109311

12 **V**, **OD** 71.10

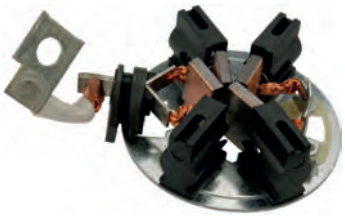
**Alternative no.:** 333657

## 235742 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1007010135, 1007010124

**Servicing:** 0001124011, 0001124012, 0001124013, 0001124014, 0001124022, 0001124023



## 235745 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 6033AD5320, 6033AD5316, 6033AD4194

**Servicing:** 0001231004, 0001231005, 0001231006, 0001231007, 0001231008, 0001231009, 0001231012, 0001231013, 0001231019, 0001231023

24 **V**, **OD** 90.85

**Alternative no.:** 333658

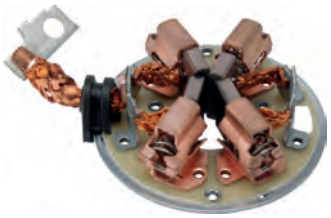
## 235832 Brush Box

**Replacing:** 1004336785, 1004336707, 1004336656, 1004336631, 1004336576, 1004336530

**Servicing:** 0001108400, 0001108411, 0001108412, 0001108444, 0001122400, 0001122401, 0001122402, 0001122403

**OD** 64.00

**Alternative no.:** 333566 5★



## 235883 Brush Gear

**Replacing:** 6033AD1252, 6033AD0407, 6033AD0221

**Servicing:** 0001218728, 0001218772, 0001218774, 0001223001, 0001223002, 0001223003, 0001223005, 0001223006, 0001223024, 0001223504

12 **V**, **OD** 85.90

## 236867 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004337140, 1004336769, 1004336704, 1004336565, 1004336527

**Servicing:** 0001108402, 0001108405, 0001108406, 0001108420, 0001108421, 0001108450, 0001108451, 0001108456, 0001108457

12 **V**, **OD** 63.00

## 237366 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336888, 1004336770, 1004336727, 1004336712, 1004336536

**Servicing:** 0001108157, 0001108190, 0001108202, 0001108204, 0001108208, 0001108209, 0001108211, 0001108212, 0001108213, 0001108214

12 **V**, **OD** 56.15

**Alternative no.:** 333659

## 237670 5★ Brush Gear

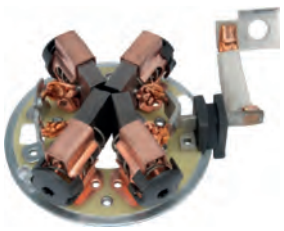
**Manufacturer:** Bosch

**Replacing:** 1004336894, 1004336518

**Servicing:** 0001105205, 0001109068, 0001109202, 0001109203, 0001109205, 0001109250, 0001109302, 0001109303, 0001109305, 0001109324

12 **V**

**Alternative no.:** 333970



## 239116 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 6033AD6098, 2004336091

**Servicing:** 0001330008

24 **V**, **OD** 105.80

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## 239781* Brush Gear

**Replacing:** 1004336791, 1004336583

**Servicing:** 0001107434, 0001107440, 0001107441, 0001107448, 0001107449

12 **V**, **OD** 62.00

**Alternative no.:** 333499 5★

## 330495 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336674, 1004336645, 1004336609

**Servicing:** 0001138001, 0001138002, 0001138011, 0001138012, 0001138029, 0001138030, 0001138037, 0001138038, 0001138039, 0001138040

12 **V**, **OD** 66.90

## 330531 Brush Gear

**Replacing:** 1004336783, 1004336628, 1004336597

**Servicing:** 0001109066, 0001109067

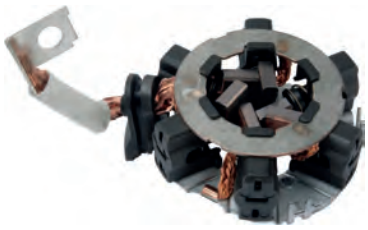
12 **V**, **OD** 71.01

## 331821 Brush Gear

**Replacing:** 1004336806

**Servicing:** 0001108125, 0001108130, 0001108138, 0001108162, 0001108166, 0001108167, 0001108173, 0001108176, 0001108183, 0001108189

12 **V**, **OD** 69.40



## 331995 Brush Gear

**Replacing:** 1004336649, 1004336612

**Servicing:** 0001139001, 0001139002, 0001139005, 0001139006, 0001139011, 0001139012, 0001139013, 0001139014, 0001139015, 0001139016

12 **V**, **OD** 72.00

## 332070 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336897, 1004336758, 1004336650, 1004336557

**Servicing:** 0001108404, 0001109030, 0001115021, 0001115025, 0001115042, 0001123004, 0001123005, 0001123012, 0001123013, 0001123014

12 **V**, **OD** 67.00

**Alternative no.:** 333660

## 332071 Brush Gear

**Replacing:** 1004336639, 1004336630

**Servicing:** 0001107474, 0001109069, 0001109070

12 **V**, **OD** 70.00

## 332155 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004338157, 1004336603, 1004336581

**Servicing:** 0001109267, 0001109306, 0001109307, 0001109321, 0001109322, 0001109336, 0001109337, 0001109342, 0001109343, 0001109355

12 **V**, **OD** 71.30

**Alternative no.:** 335221

## 333093 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336577

**Servicing:** 0001107107

**OD** 67.00

## 333123 Brush Box

**Replacing:** 1004336759, 1004336700, 1004336653, 1004336558, 1004336523

**Servicing:** 0001123017, 0001123036, 0001123037, 0001123044, 0001123045

**OD** 69.25

**Alternative no.:** 333552 5★

## 333124 Brush Box

**Replacing:** 1004337012

**Servicing:** 0001142001, 0001142002, 0399703051, 0399703052

**OD** 68.65

## 333285 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336217, 1004336980, 1004336762, 1004336740, 1004336439, 1004336434, 1004336423, 1004336411

**Servicing:** 0001107031, 0001108128, 0001108138, 0001108166, 0001108167, 0001108173, 0001108176, 0001108189, F000AL0126, F010AL0103

**OD** 68.50

**Alternative no.:** 234475

## 333286 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336221, 1004336975, 1004336970, 1004336964, 1004336957, 1004336842, 1004336827, 1004336820

**Servicing:** 0001106014, 0001107009, 0001107014, 0001107015, 0001107016, 0001107017, 0001107018, 0001107019, 0001107025, 0001107026

**OD** 68.00

**Alternative no.:** 136557, 333645



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## 333287 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336215, 1004336987, 1004336951, 1004336937, 1004336831, 1004336821, 1004336810, 1004336746

**Servicing:** 0001106016, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107011, 0001107012, 0001107013

12 **V**, **OD** 68.00

**Alternative no.:** 135015, 333644

## 333288 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336240, 1004336990, 1004336860, 1004336738, 1004336737, 1004336409, 1004336408

**Servicing:** 0001125001, 0001125002, 0001125007

12 **V**, **OD** 67.20

**Alternative no.:** 139428, 333691

## 333289 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336245, 1004336948, 1004336946, 1004336908, 1004336835, 1004336802, 1004336463, 1004336456

12 **V**, **OD** 66.45

**Alternative no.:** 137703

## 333290 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** F000AL1055, 1004336963, 1004336939, 1004336916, 1004336915, 1004336834, 1004336815, 1004336302

**Servicing:** 0001112027, 0001112028, 0001112044, 0001112045, 0001113010, 0001113013, 0001113014, 0001113017

**OD** 67.25

**Alternative no.:** 134868, 333643

## 333291 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336234, 1004336999, 1004336997, 1004336994, 1004336984, 1004336981, 1004336976, 1004336959

**Servicing:** 0001109015, 0001109021, 0001109022, 0001109034, 0001109041, 0001109052, 0001109055, 0001109062, 0001109068, 0001109252

**OD** 66.35

**Alternative no.:** 134660, 333641

## 333292 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336896, 1004336879, 1004336655, 1004336637, 1004336519, 1004336506

**Servicing:** 0001106405, 0001106406, 0001120400, 0001120401, 0001120402, 0001120407, 0001120408, 0001120410, 0001120411, 0001121408

12 **V**, **OD** 64.94

**Alternative no.:** 235531

## 333293 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2009994110, 2004336046, 2004336031

**Servicing:** 0001364301, 0001368001, 0001368007, 0001368010, 0001368016, 0001368017, 0001368019, 0001368020, 0001368024, 0001368030

**OD** 86.25

*w/ neg. brushes. Brush set: HC-CARGO BSX135-1454.*

**Alternative no.:** 131185, 333635

## 333294 5★ Brush Box

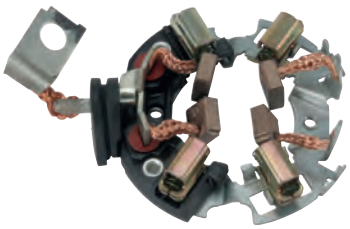
**Manufacturer:** Bosch

**Replacing:** F000AL1483, F000AL1326, 1004336967, 1004336938, 1004336865, 1004336753, 1004336433

**Servicing:** 0001112007, 0001112008, 0001112015, 0001112035, 0001112041, 0001113004

**OD** 64.65

**Alternative no.:** 136418



## 333295 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** F000AL2034, 1004336969, 1004336940

12 **V**, **OD** 72.35

**Alternative no.:** 138201



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## 333296 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336214, 2004336209, 1004336998, 1004336974, 1004336968, 1004336965, 1004336961, 1004336960

**Servicing:** 0001107073, 0001107074

**OD** 67.60

**Alternative no.:** 134658, 333639

## 333297 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** F000AL2051, F000AL2050, 1004336838, 1004336822

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008

**OD** 72.60

**Alternative no.:** 139550, 333649

## 333299 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336078

**Servicing:** 0001371004, 0001371006, 0001371008

**OD** 111.00

**Alternative no.:** 230843, 333652

## 333300 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 9003334363, 6033AD4180, 6033AD4161, 6033AD4026, 6033AD0471, 6033AD0380, 6033AD0156, 6033AD0130

**Servicing:** 0001231002, 0001231011, 0001231014, 0001231016, 0001231017, 0001231032, 0001231033, 0001231045, 0001263049

28 **V**, **OD** 90.75

**Alternative no.:** 139698, 333650

## 333301 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** F000AL1919, 1004336928, 1004336917, 1004336846, 1004336844, 1004336817

12 **V**, **OD** 64.90

*Brush pos.: HC-CARGO BS175. Brush neg.: HC-CARGO BS176.*

**Alternative no.:** 138899

## 333303 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336988, 1004336257

**OD** 66.90

**Alternative no.:** 139146

## 333304 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336899, 1004336890, 1004336876, 1004336798, 1004336678, 1004336591, 1004336584, 1004336522

12 **V**, **OD** 69.25

**Alternative no.:** 235401

## 333305 5★ Brush Box

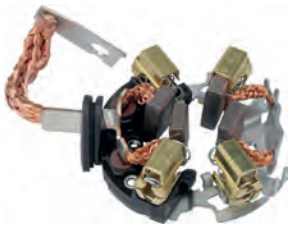
**Manufacturer:** Bosch

**Replacing:** 2004336233, 1004336848, 1004336460, 1004336361

**Servicing:** 0001109035

12 **V**, **OD** 72.50

**Alternative no.:** 335222



## 333306 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336235, 1004336729, 1004336422, 1004336409

**Servicing:** 0001110132, F000AL0108

12 **V**, **OD** 72.33

## 333307 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 1004336885, 1004336752, 1004336621, 1004336605, 1004336551

**Servicing:** 0001110133, 0001110134, 0001125003, 0001125004, 0001125035, 0001125036, 0001125039, 0001125040, 0001125048, 0001125049

**OD** 74.20

**Alternative no.:** 333971

## 333356 Brush Gear

**Replacing:** 1004336695

**Servicing:** 0001136002, 0001136003, 0001137001, 0001137002, 0001137003, 0001137004, 0001137005, 0001137006, 0001137011, 0001137012

12 **V**, **OD** 73.00

## 333414 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 1004336618, 1004336599

**Servicing:** 0001109105, 0001109205, 0001109260, 0001109261, 0001109304, 0001109319, 0001109320, 0001109324, 0001109328, 0001109329

12 **V**, **OD** 73.75



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**333415** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336615
**Servicing:** 0001108415, 0001108416, 0001108428, 0001108429, 0001108445, 0001108446, F000AL0901
**OD** 53.00

**333425** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336677, 1004336553
**Servicing:** 0001115078, 0001115079
**OD** 67.10

**333497** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 2004336041
**Servicing:** 0001362310
12 **V**, **OD** 97.50
**Alternative no.:** 132306

**333499** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336583
**Servicing:** 0001107433, 0001107434, 0001107441, 0001107514, 0001107529, 0001107530, 0001107531, 9001107434, F004A94434, F004A94441
12 **V**, **OD** 66.00
**Alternative no.:** 239781

**333536** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336757, 1004336623, 1004336556
**Servicing:** 0001125025, 0001125600
**OD** 74.00
**Alternative no.:** 333607

**333538** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 2004336222, 1004336816, 1004336300
**Servicing:** 0001108184, 0001108188
**OD** 63.29
**Alternative no.:** 139144

**333539** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 2004336219, 2004336210, 1004336923, 1004336919, 1004336911, 1004336811, 1004336772, 1004336467
**Servicing:** ACR, 0001108021, 0001108099, 0001108147, 0001108190, 0001111001, 0001111005, B001111052
**OD** 67.20
**Alternative no.:** 135235

**333552** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336759, 1004336700, 1004336653, 1004336558, 1004336523
**Servicing:** 0001123044, 0001123045
**OD** 69.25
**Alternative no.:** 333123

**333559** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 2004336237, 1004336956, 1004336848, 1004336804, 1004336741, 1004336730, 1004336412, 1004336400
**Servicing:** 0001109009, 0001109017, 0001109026, 0001109049, 0001110100, 0001110101
**OD** 64.75
**Alternative no.:** 139638

**333566** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336785, 1004336707, 1004336656, 1004336631, 1004336576, 1004336530
**Servicing:** 0001108400, 0001108411, 0001108412, 0001108444
**OD** 66.40
**Alternative no.:** 235832

**333567** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 1004336762, 1004336439
**Servicing:** 0001108183
**OD** 63.25
**Alternative no.:** 333614

**333574** 5★ Brush Gear
**Manufacturer:** Bosch
**Replacing:** 9003334368, 6033AD3328, 6033AD3023, 6033AD3022, 6033AD0374, 6033AD0370, 6033AD0166
**OD** 90.40
**Alternative no.:** 234947



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O.E.M. names and numbers are used for reference purposes only.

## 333576 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336241, 1004336996, 1004336881, 1004336836, 1004336829, 1004336778, 1004336730, 1004336472

**Servicing:** 0001109018, 0001109025, 0001109031, 0001109043, 0001109045, 0001109056, 0001109201, 0001109363, 0001109419, 0001109420

12 **V**, **OD** 67.25

**Alternative no.:** 138900, 333690

## 333584 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** F000AL1918, 1004336993, 1004336843

**OD** 67.35

**Alternative no.:** 138904

## 333595 5★ Brush Box

**Manufacturer:** Bosch

**Replacing:** 2004336238, 2004336230, 1004336991, 1004336983, 1004336958, 1004336947, 1004336933, 1004336927

**Servicing:** 0001110001, 0001110002, 0001110009, 0001110010, 0001110014, 0001110015, 0001110031, 0001110032, 0001110059, 0001110061

**OD** 67.00

**Alternative no.:** 134659, 333640

## 333642 Brush Gear

**Replacing:** 9003334355, 9003334343, 9003334314, 1004336218

**Servicing:** 0001109344, 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218008, 0001218009, 0001218010, 0001218011

12 **V**, **OD** 85.50

**Alternative no.:** 134661

## 333643 Brush Gear

**Replacing:** F000AL1055, 1004336963, 1004336939, 1004336916, 1004336915, 1004336834, 1004336815, 1004336302

**Servicing:** 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112012, 0001112013, 0001112014, 0001112015, 0001112016

**OD** 67.25

**Alternative no.:** 134868, 333290 5★

## 333652 Brush Gear

**Replacing:** 2004336078

**Servicing:** 0001371004, 0001371006, 0001371008

24 **V**, **OD** 111.00

**Alternative no.:** 230843, 333299 5★

## 333655 Brush Gear

**Replacing:** 1004336878, 1004336750, 1004336619, 1004336549

**Servicing:** 0001125021, 0001125022, 0001125031, 0001125032, 0001125042, 0001125043, 0001125046, 0001125047, 0001125051, 0001125052

12 **V**, **OD** 63.00

**Alternative no.:** 234896 5★

## 333657 Brush Gear

**Replacing:** 1004336784, 1004336574

**Servicing:** 0001109250, 0001109264, 0001109304, 0001109305, 0001109328, 0001109329, 0001109391, 0001109392

12 **V**, **OD** 71.10

**Alternative no.:** 235741 5★

## 333658 Brush Gear

**Replacing:** 6033AD5320, 6033AD5316, 6033AD4194

**Servicing:** 0001231008, 0001231012, 0001231013, 0001231019, 0001231029, 0001231030, 0001231040, 0001231041, 0001241128

24 **V**, **OD** 90.85

**Alternative no.:** 235745 5★

## 333659 Brush Gear

**Replacing:** 1004336888, 1004336727, 1004336712, 1004336536

**Servicing:** 0001108190, 0001108202, 0001108204, 0001108213, 0001108214, 0001108217, 0001108218, 0001108222, 0001108223, 0001108224

12 **V**, **OD** 56.15

**Alternative no.:** 237366 5★



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#Available while stock last, * Program development.

## 333690 Brush Gear

**Replacing:** 2004336241, 1004336996, 1004336881, 1004336836, 1004336829, 1004336778, 1004336472, 1004336445

**Servicing:** 0001109018, 0001109025, 0001109030, 0001109033, 0001109040, 0001109045, 0001109048, 0001109201

12 **V**, **OD** 71.50

**Alternative no.:** 138900, 333576 5★

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## 333923 Brush Gear

**Replacing:** 1004336796, 1004336588

**Servicing:** 0001115035

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## 333967 Brush Gear

**Replacing:** 1104336702, 1004336866, 1004336718, 1004336703, 1004336702, 1004336608, 1004336542, 1004336526

**Servicing:** 0001107401, 0001107407, 0001107408, 0001107409, 0001107417, 0001107418, 0001107425, 0001107426, 0001107427, 0001107428

12 **V**, **OD** 64.00

**Alternative no.:** 232700 5★

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NEW PRODUCT
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## 333968* Brush Gear

**Replacing:** 1004336873, 1004336824, 1004336743, 1004336598, 1004336414

**Servicing:** 0001115005, 0001115008, 0001115012, 0001115020, 0001115024

**Alternative no.:** 230182 5★

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NEW PRODUCT
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## 333969* Brush Gear

**Replacing:** 2004336226, 1004336989, 1004336833, 1004336717, 1004336444, 1004336392

**Servicing:** 0001107047, 0001107077, 0001107098

**Alternative no.:** 232183 5★

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## 333970 Brush Gear

**Replacing:** 1004336894, 1004336518

**Servicing:** 0001105205, 0001109205, 0001109302, 0001109303, 0001109324

12 **V**, **OD** 74.00

**Alternative no.:** 237670 5★

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## 333971 Brush Box

**Replacing:** 1004336885, 1004336752, 1004336621, 1004336605, 1004336551

**Servicing:** 0001110086, 0001110087, 0001110118, 0001110119, 0001110133, 0001110134, 0001124001, 0001124002, 0001124005, 0001124006

12 **V**, **OD** 73.00

**Alternative no.:** 333307 5★

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## 333983 5★ Brush Gear

**Manufacturer:** Bosch

**Replacing:** 2004336244, 1004336465, 1004336405, 1004336404

**Servicing:** 0001110106, 0001110107

**OD** 71.10

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## 335176 Brush Box

**Replacing:** 1004336626, 1004336625, 1004336570

12 **V**, **OD** 73.60

**Alternative no.:** 235406 5★

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NEW PRODUCT
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## 335205* Brush Gear

**Replacing:** 1004336978, 1004336766, 1004336562, 1004336504

**Servicing:** 0001107112, 0001108147, 0001121018, 0001121019, 0001121024, 0001121025, 0001121026, 0001121027, 0001121028, 0001121029

12 **V**

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NEW PRODUCT
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## 335206* Brush Gear

**Replacing:** 1004336789, 1004336607, 1004336580

**Servicing:** 0001107406, 0001107438, 0001107439, 0001107459, 0001107460

12 **V**

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NEW PRODUCT
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## 335207* Brush Gear

**Replacing:** 1004336768, 1004336633, 1004336564

**Servicing:** 0001108403, 0001108404, 0001108409, 0001108410, 0001108441, 0001108442

12 **V**

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NEW PRODUCT
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**335208*** Brush Gear

**Replacing:** 1004337173, 1004336658

**Servicing:** 0001122201, 0001122202

24 **V**

NEW PRODUCT
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**335211*** Brush Gear

**Replacing:** 2004336216, 1004336747, 1004336418

**Servicing:** 0001108174, 0001108175, 0001108197, 0001108220, 0001108221

NEW PRODUCT
www.hc-cargo.com

**335212*** Brush Gear

**Replacing:** 1004338159, 1004336586, 1004336582

**Servicing:** 00010DB98E, 0001109263, 0001109265, 0001109271, 0001109272, 0001109273, 0001109274, 0001109284, 0001109285, 0001109344

NEW PRODUCT
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**335213*** Brush Gear

**Replacing:** 1004336898, 1004336773, 1004336568

**Servicing:** 0001108203

NEW PRODUCT
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**335222** Brush Box

**Replacing:** 2004336233, 1004336848, 1004336460, 1004336361

**Servicing:** 0001109035

**OD** 72.50

**Alternative no.:** 333305 5★

## Brush Gear Parts

### Brush Holders

Pkg. 10

**133553** Brush Gear

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108005, 0001108006, 0001108009, 0001108010, 0001108011, 0001108012

Pkg. 10

**133555** Brush Holders

**Servicing:** 0001109001, 0001109002, 0001109014, 0001109015, 0001109018, 0001109021, 0001109022, 0001109025, 0001109026, 0001109030

**OD** 11.20

Pkg. 10

**134530** Brush Gear

**Servicing:** 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012, 0001317013, 0001317016

Pkg. 10

**134531** Brush Gear

**Servicing:** 0001208506, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518, 0001208519, 0001208520

Pkg. 10

**134702** Brush Gear

**Servicing:** 0001218003, 0001218004, 0001218005, 0001218006, 0001218008, 0001218011, 0001218012, 0001218013, 0001218014, 0001218016

Pkg. 10

**135496** Brush Gear

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019, 0001106022, 0001106023

Pkg. 10

**135563** Brush Gear

**Servicing:** ACR, 0001218116, 0001218117, 0001218151, 0001218164, 0001218172, 9000331201, 9000331203



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Pkg. 10

## 238580 Brush Gear

**Replacing:** 1009994029

**Servicing:** 0001106405, 0001106406, 0001107061, 0001107401, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408

**OD** 5.10

### Brush Springs

Pkg. 10

## 131499 Brush Spring

**Replacing:** 2004652006

**Servicing:** 0001402055, 0001402081, 0001402083, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410022, 0001410023

**Length** 32.00

Pkg. 10

## 132223 Brush Spring

**Replacing:** 2004616007

**Servicing:** 0001218127, 0001364301, 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367008, 0001367009, 0001367010

**OD** 12.00, **Length** 24.00

Pkg. 10

## 132224 Brush Spring

**Replacing:** 2004652039, 2004652038, 2004652036

**Servicing:** 0001358200, 0001358201, 0001358202, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010, 0001359012, 0001359013

**Length** 32.00

Pkg. 10

## 132576 Brush Spring

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108005, 0001108006, 0001108009, 0001108010, 0001108011, 0001108012

**OD** 8.45, **Length** 17.00

Pkg. 10

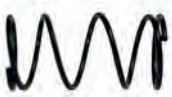
## 133556 Brush Spring

**Replacing:** 2004618004

**Servicing:** 0001362005, 0001362006, 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362040, 0001362041, 0001362042

**OD** 10.30, **Length** 27.50

Pkg. 10



## 133557 Brush Spring

**Servicing:** 0001124020, 0001124021, 0001125016, 0001125017, 0001125019, 0001125519, 0001125520, 2004618004

**OD** 9.50, **Length** 20.00

Pkg. 10

## 134442 Brush Spring

**Replacing:** 2004652034, 1004652007

**Servicing:** 0001311047, 0001311050, 0001311051, 0001311052, 0001311053, 0001311054, 0001311055, 0001311056, 0001311100, 0001311101

**Length** 29.85

Pkg. 10

## 134548 Brush Spring

**Replacing:** 1004611006

**Servicing:** 0001138001, 0001138002, 0001211514, 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011

**OD** 8.20, **Length** 32.50

Pkg. 10

## 134937 Brush Spring

**Replacing:** 1004611007

**Servicing:** 0001208501, 0001208506, 0001208507, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517

**OD** 8.30, **Length** 26.40

Pkg. 10

## 135004 Brush Spring

**Replacing:** 1004615001

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

**OD** 11.50, **Length** 32.00

Pkg. 10

## 135299 Brush Spring

**Servicing:** 0001106014, 0001106018, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107091, 0001107402, 0001107406

**OD** 6.30, **Length** 17.30

Pkg. 10

## 135460 Brush Spring

**Replacing:** 2004652010

**Servicing:** 0001208202, 0001208229, 0001311112, 0001311145, 0001357002, 0001357003, 0001362001, 0001362002, 0001362003, 0001362004

**OD** 15.00, **Length** 26.70

Pkg. 4

## 136694 Brush Spring

**Replacing:** 2004652004

**Servicing:** 0001370002, 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010

**OD** 16.75, **Length** 32.90

Pkg. 10

## 139119 Brush Spring

**Replacing:** 2004652015, 1004652005, 1004652002

**Servicing:** 0001204102, 0001207001, 0001207003, 0001207005, 0001207009, 0001207010, 0001207014, 0001207015, 0001207016, 0001207017

**OD** 14.70, **Length** 24.30

Pkg. 10

## 139302 Brush Spring

**Replacing:** 2004652001, 2004452001

**Servicing:** 0001358035, 0001358040, 0001358048, B001804003

**Length** 36.00

Pkg. 10

## 231172 Brush Spring

**Replacing:** 2004652002

**Servicing:** 0001154001, 0001154007, 0001155003, 0001155004, 0001155008, 0001155009, 0001155011, 0001155016, 0001155017, 0001155018

**OD** 12.50, **Length** 22.15

Pkg. 10

## 231709 Brush Spring

**Replacing:** 2004616009

**Servicing:** 0001223504, 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231012, 0001231016, 0001231019, 0001231040

**OD** 11.90, **Length** 30.00

Pkg. 10

## 232173 Brush Spring

**Servicing:** 0001223003, 0001223005, 0001223007, 0001223024, 0001231002, 0001231003, 0001231004, 0001231005, 0001231007, 0001231008

**OD** 12.30, **Length** 32.00

Pkg. 10

## 233726 Brush Spring

**Replacing:** 1124625003

**Servicing:** 0120300510, 0120300511, 0120300512, 0120300513, 0120300514, 0120300515, 0120300516, 0120300517, 0120300518, 0120300519

**OD** 6.00, **Length** 34.00

Pkg. 10

## 234117 Brush Spring

**Servicing:** 0001223013, 0001230002, 0001230006, 0001230009, 0001230012, 0001230014

**OD** 11.80, **Length** 34.85

Pkg. 10

## 235818 Spring

**Replacing:** 1004611030

**Servicing:** 0001105205, 0001109009, 0001109064, 0001109065, 0001109066, 0001109067, 0001109069, 0001109070, 0001109204, 0001109205

**OD** 10.10, **Length** 21.50

### Various

Pkg. 25

## 133967 Insulator

Pkg. 10

## 134156 Insulator

**Servicing:** 0001416079

**ID/threaded hole** 4.15, **Thickness** 1.00, **No./mount. holes** 2, **Gasket** w/o



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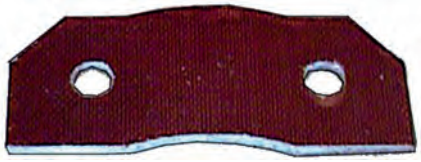
#Available while stock last, * Program development.

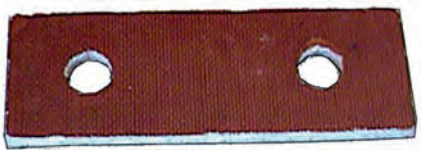
Pkg. 10



**134323** Insulator

**Servicing:** 0120689512

Pkg. 10



**134324** Insulator

**Servicing:** 0001416079

## Brush Sets

**140918** Brush Set

**Replacing:** 2137014038

**Servicing:** 0136352005, 0136355049, 0136355050, 0136355057, 0136355058, 0136355059, 0136355060, 0136355061, 0136355064, 0136355065

24 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 25.85, **Thickness** 8.90

*1.5/2.5 kW.*

**141008** Brush Set

**Replacing:** 9001454592, 9001083592

**Servicing:** 9000083053, 9000083054, 9000083055, 9000083056, 9000083057, 9000083058, 9000083059, 9000083060, 9000083061, 9000083062

12 **V**, **Length** 20.00, **Lead length** 42.00, **Height** 22.20, **Thickness** 10.00

**141183** Brush Set

**Replacing:** 9001083433

**Servicing:** 9000083027, 9000083028, 9000083056, 9000083065

12 **V**, **Length** 23.50, **Lead length** 38.00, **Height** 22.00, **Thickness** 10.00

**141184** Brush Set

12 **V**, **Length** 13.00, **Lead length** 23.00, **Lead length 2** 45.50, **Height** 16.00, **Thickness** 4.80

**141185** Brush Set

**Replacing:** 1004320119

12 **V**, **Length** 11.50, **Lead length** 23.00/63.00, **Height** 11.85, **Thickness** 4.80

**141194** Brush Set

**Replacing:** 1004320201, 1004320200, 1004320164, 1004320163

**Servicing:** 0001107094, 0001107095, 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408

12 **V**, **Length** 12.00, **Lead length** 24.00, **Height** 10.50/11.20, **Thickness** 4.60

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**142069** Brush Set

**Replacing:** 1004320245, 1004320243, 1004320242

**Servicing:** 0001138001, 0001138002, 0001138011, 0001138012

12 **V**, **Length** 12.21, **Lead length** 25.50, **Height** 15.85, **Thickness** 4.44

**142086** Brush set

**Replacing:** 2004320273, 2004320272

**Servicing:** 0001261001, 0001261002, 0001261007, 0001261008, 0001261012, 0001263002, 0001263010, 0001263012, 0001263014, 0001263047

24 **V**, **Length** 18.00, **Lead length** 34.00, **Height** 27.80, **Thickness** 6.50

**142320** 5★ Brush Set

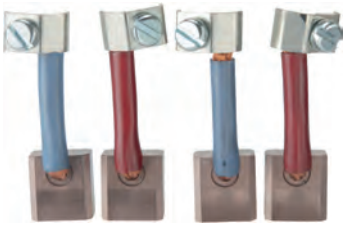
**Manufacturer:** Bosch

**Replacing:** 2007014026, 2004320173

**Servicing:** 0001208053, 0001208054, 0001208172, 0001208200, 0001208201, 0001208202, 0001208206, 0001208208, 0001208211, 0001208216

12-28 **V**, **Length** 18.00, **Lead length** 29.00, **Height** 10.00, **Thickness** 7.00

**Alternative no.:** BSX754



**142324** 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 2007014065

12 **V**, **Length** 17.10, **Lead length** 44.00, **Height** 15.80, **Thickness** 8.90

**Alternative no.:** BSX1394

## 142325 5★ Brush Set

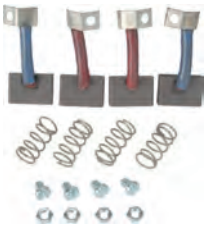
**Manufacturer:** Bosch

**Replacing:** 9003337001, 1007014143, 1007014140

**Servicing:** 0001109344, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218011, 0001218012

12 **V**, **Length** 16.94, **Lead length** 23.00, **Height** 17.90, **Thickness** 7.50

**Alternative no.:** BSX151S4, 142334



## 142326 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 2007014063

24 **V**, **Length** 16.60, **Lead length** 56.00, **Lead length 2** 46.80, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BSX135-1454

## 142327 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 2007014079

24 **V**, **Length** 19.25, **Lead length** 33.10, **Height** 35.80, **Thickness** 11.87

**Alternative no.:** BSX172-1734

## 142328 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 9001453644, 2007014082

24 **V**, **Length** 18.25, **Lead length** 36.60, **Height** 35.82, **Thickness** 8.87

**Alternative no.:** BSX1774

## 142332 Brush Set

**Replacing:** 1004320321, 1004320281, 1004320279, 1004320261, 1004320244

**Servicing:** 0001139025, 0001139026, 0001139029, 0001139030, 0001139071, 0001139072, 0001139408, 0001139409

12 **V**, **Length** 14.20/12.70, **Height** 18.00, **Thickness** 5.25

## 142334 Brush Set

**Replacing:** 9003337001, 1007014143, 1007014140

**Servicing:** 0001109344, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218011, 0001218012

12 **V**, **Length** 15.50/17.00, **Lead length** 23.00, **Height** 18.00, **Thickness** 7.50

**Alternative no.:** BSX151S4, 142325 5★

## 142335 Brush Set

**Servicing:** 0001109001, 0001109009, 0001109014, 0001109015, 0001109018, 0001109021, 0001109022, 0001109025, 0001109026, 0001109030

12 **V**, **Length** 14.40/13.20, **Lead length** 25.00, **Height** 17.90, **Thickness** 5.95

**Alternative no.:** BSX157-1584

## 142336 Brush Set

**Servicing:** 0001108001, 0001108002, 0001108003, 0001108004, 0001108009, 0001108010, 0001108011, 0001108012, 0001108018, 0001108020

12 **V**, **Length** 12.10/13.70, **Lead length** 25.00, **Height** 16.00, **Thickness** 5.00

*w/ brush bar: Cargo 141184.*

**Alternative no.:** BSX159-1604

## 142338 Brush Set

**Replacing:** 1004320158

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008

12 **V**, **Length** 10.50/11.50, **Lead length** 25.00, **Height** 8.50, **Thickness** 5.00

**Alternative no.:** BSX1964

## 142339 Brush Set

**Replacing:** 2007014026, 2004320173

**Servicing:** 0001208053, 0001208054, 0001208172, 0001208200, 0001208201, 0001208202, 0001208206, 0001208208, 0001208211, 0001208216

12 **V**, **Length** 18.00, **Lead length** 35.00, **Height** 10.00, **Thickness** 6.92

**Alternative no.:** BSX754, 142320 5★

## 142340 Brush Set

**Replacing:** 1007014121

12 **V**, **Length** 18.20, **Lead length** 36.00, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** BSX764

Pkg. 100

## BS170 Brush

**Replacing:** 2004320196, 2004320165

**Servicing:** 0001372005, B001860023

**Length** 14.70, **Lead length** 38.00, **Height** 24.70, **Thickness** 9.90



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#Available while stock last, * Program development.

Pkg. 100

## BS171 Brush

**Replacing:** 2004320197, 2004320166

**Servicing:** 0001372005, B001860023

**Length** 14.90, **Lead length** 56.00, **Height** 24.75, **Thickness** 9.90

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## BSX1004 Brush Set

**Replacing:** 2007014078, 2007014051, 2007014049, 2007014035, 2007014022

**Servicing:** 0001360002, 0001360007, 0001360008, 0001360009, 0001360010, 0001360012, 0001360013, 0001360015, 0001360016, 0001360017

24 **V**, **Length** 23.00, **Lead length** 42.00, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BS100

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## BSX1014 Brush Set

**Replacing:** 2007014040

**Servicing:** 0001305010

12 **V**, **Length** 18.00, **Lead length** 36.00, **Height** 16.00, **Thickness** 9.00

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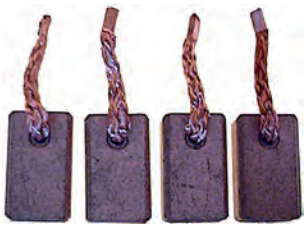

## BSX1024 Brush Set

**Replacing:** 2007014053, 2007014019

**Servicing:** 0001357002, 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006, 0001362007, 0001362008, 0001362009

12 **V**, **Length** 25.50, **Lead length** 36.00, **Height** 15.85, **Thickness** 9.00

**Alternative no.:** BS102

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## BSX1034 Brush Set

**Replacing:** 2007014017, 2007014014

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009, 0001510010, 0001510011

24 **V**, **Length** 27.00, **Lead length** 49.00, **Height** 40.00, **Thickness** 12.00

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## BSX1042 Brush Set

**Replacing:** 2007014030, 1007014117, 1007014112

**Servicing:** 0001208009, 0001208033, 0001208061, 0001311001, 0001311007, 0001311016, 0001311026, 0001311027, 0001311032, 0001311038

12 **V**, **Length** 18.00, **Lead length** 32.00, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** BS104/0

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## BSX1044 Brush Set

**Replacing:** 2007014055, 2007014054, 1007014122, 1007014119, 1007014118, 1007014114, 1007014113

**Servicing:** 0001208003, 0001208025, 0001208026, 0001208047, 0001208056, 0001208058, 0001211016, 0001211023, 0001310013, 0001312100

12 **V**, **Length** 18.00, **Lead length** 32.00, **Height** 16.00, **Thickness** 7.00

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## BSX116F4 Brush Set

**Servicing:** 0001363101, 0001363111

24 **V**, **Length** 16.00, **Lead length** 34.00, **Height** 15.50, **Thickness** 9.00

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## BSX121F4 Brush Set

12 **V**, **Length** 16.00, **Lead length** 34.50, **Height** 14.00, **Thickness** 7.00

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## BSX124 Brush Set

**Replacing:** 1007014100

**Servicing:** 0001354004, 0001354005, 0001354016, 0001354018, 0001354027, 0001354029, 0001354031, 0001354038, 0001354055, 0001354064

6/12 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 13.00, **Thickness** 9.00

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## BSX124F4 Brush Set

**Replacing:** 1007014134, 1007014129

**Servicing:** 0001208004, 0001208006, 0001208007, 0001208017, 0001208018, 0001208029, 0001208032, 0001208036, 0001208037, 0001208038

12 **V**, **Length** 18.05, **Lead length** 32.50, **Height** 15.80, **Thickness** 6.90

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## BSX128F4 Brush Set

**Replacing:** 1004320907, 1004320900

12 **V**, **Length** 18.00, **Lead length** 34.50, **Height** 10.00, **Thickness** 7.00

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## BSX1304 Brush Set

**Replacing:** 2007014060, 2007014059

**Servicing:** 0001413001, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011

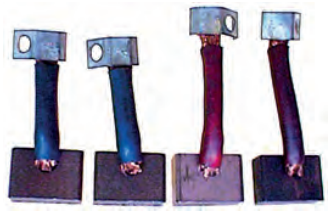
12 **V**, **Length** 27.00, **Lead length** 49.00, **Height** 36.00, **Thickness** 12.00

## BSX1314 Brush Set

**Replacing:** 2007014061, 2007014048, 2007014036, 2007014023, 2007014008

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025, 0001410026

24 **V**, **Length** 27.00, **Lead length** 46.00, **Height** 36.00, **Thickness** 12.00



## BSX134-1444 Brush Set

**Replacing:** 2007014062

**Servicing:** 0001367001, 0001367002, 0001367003, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010

12 **V**, **Length** 17.00, **Lead length** 57.00, **Lead length 2** 44.00, **Height** 25.00, **Thickness** 10.00

**Alternative no.:** BS134/0

## BSX135-1454 Brush Set

**Replacing:** 2007014063

**Servicing:** 0001368001, 0001368002, 0001368003, 0001368004, 0001368005, 0001368006, 0001368007, 0001368008, 0001368009, 0001368010

24 **V**, **Length** 16.60, **Lead length** 56.00, **Lead length 2** 46.80, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BS135/0, 142326 5★

## BSX137-1434 Brush Set

**Replacing:** 2007014068

**Servicing:** 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362040, 0001362041, 0001362042, 0001362043, 0001362045

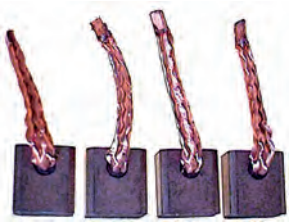
12 **V**, **Length** 17.00, **Lead length** 45.00, **Height** 16.00, **Thickness** 9.00

## BSX138-1424 Brush Set

**Replacing:** 2007014069

**Servicing:** 0001363103, 0001363104, 0001363105, 0001363106, 0001363107, 0001363108, 0001363109, 0001363110, 0001363111, 0001363112

24 **V**, **Length** 16.00, **Lead length** 44.00, **Height** 15.50, **Thickness** 9.00



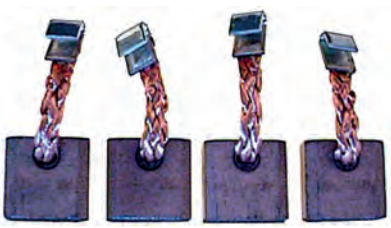
## BSX1394 Brush Set

**Replacing:** 2007014065

**Servicing:** 0001362300, 0001362301, 0001362302, 0001362303, 0001362304, 0001362305, 0001362306, 0001362307, 0001362308, 0001362309

12 **V**, **Length** 17.00, **Lead length** 44.00, **Height** 16.00, **Thickness** 9.00

**Alternative no.:** BS139, 142324 5★



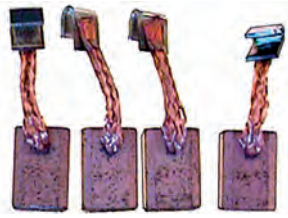
## BSX1404 Brush Set

**Replacing:** 1007014144, 1007014138

**Servicing:** 0001208516, 0001208710, 0001211514, 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011

12 **V**, **Length** 15.00, **Lead length** 21.00, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** BS140/0



## BSX1464 Brush Set

**Replacing:** 1007014137

**Servicing:** 0001211500, 0001211501, 0001211502, 0001211503, 0001211504, 0001211505, 0001211506, 0001211507, 0001211508, 0001211510

12 **V**, **Length** 14.00, **Lead length** 26.50, **Height** 10.00, **Thickness** 7.00

## BSX1474 Brush Set

**Replacing:** 2007014067

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

24 **V**, **Length** 27.00, **Lead length** 50.00, **Height** 36.00, **Thickness** 10.00

## BSX1484 Brush Set

**Replacing:** 2007014074, 2007014070, 2007014047, 2007014042, 2007014015, 2007014004

**Servicing:** 0001410029, 0001410062, 0001410105, 0001416001, 0001416002, 0001416003, 0001416004, 0001416005, 0001416006, 0001416007

24 **V**, **Length** 27.00, **Lead length** 54.00, **Height** 36.00, **Thickness** 12.00

**Alternative no.:** BS148

## BSX1494 Brush Set

**Replacing:** 1007014145, 1007014141, 1007014139, 1007014105

**Servicing:** 0001208501, 0001208506, 0001208507, 0001208508, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517

12 **V**, **Length** 14.00, **Lead length** 31.00, **Height** 10.00, **Thickness** 7.00

**Alternative no.:** BS149



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#Available while stock last, * Program development.

## BSX151S4 Brush Set

**Replacing:** 9003337001, 1007014143, 1007014140

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

12 **V**, **Length** 17.00/19.00, **Lead length** 26.00, **Height** 18.00, **Thickness** 7.50

**Alternative no.:** BS151, 142325 5★, 142334

## BSX1534 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 2007014066

**Servicing:** 0001421001, 0001421002, 0001421003, 0001421004, 0001421005, 0001421006, 0001421007, 0001421008, 0001421009, 0001421010

12 **V**, **Length** 27.00, **Lead length** 50.00, **Height** 36.00, **Thickness** 12.00

## BSX1554 Brush Set

**Replacing:** 2007014071

**Servicing:** 0001367005, 0001367049, 0001367070, 0001369001, 0001369003, 0001369004, 0001369005, 0001369007, 0001369019, 0001369023

12 **V**, **Length** 15.00, **Lead length** 43.50, **Height** 25.00, **Thickness** 10.00

## BSX157-1584 Brush Set

**Servicing:** 0001108404, 0001109001, 0001109002, 0001109014, 0001109015, 0001109018, 0001109021, 0001109022, 0001109025, 0001109026

12 **V**, **Length** 14.40/13.20, **Lead length** 25.00, **Height** 17.90, **Thickness** 5.95

**Alternative no.:** 142335

## BSX159-1604 Brush Set

**Servicing:** 0001108011, 0001108100, 0001108123, 0001108141, 0001108150, 0001108177, 0001108178, 0001108184, 0001108190, 0001108196

12 **V**, **Length** 11.50/13.00, **Lead length** 28.50, **Height** 16.00, **Thickness** 5.00

*w/ brush bar: HC-CARGO 141184.*

**Alternative no.:** BS160, 142336

## BSX163-1644 Brush Set

**Replacing:** 2007014076, 2007014073

**Servicing:** 0001367001, 0001367004, 0001367005, 0001367007, 0001367008, 0001367009, 0001367010, 0001367012, 0001367013, 0001367014

12 **V**, **Length** 15.00, **Lead length** 47.00, **Lead length 2** 46.00, **Height** 25.00, **Thickness** 10.00

## BSX1654 Brush Set

**Replacing:** 9003334321

**Servicing:** 0001219010

24 **V**, **Length** 19.00, **Lead length** 25.00, **Height** 18.00, **Thickness** 7.60

## BSX1664 Brush Set

**Replacing:** 1004320136

**Servicing:** 0001106015, 0001106023, 0001106024, 0001112003, 0001112004, 9000695002, 9000695003, B001109104

12 **V**, **Length** 12.00, **Lead length** 26.00, **Height** 12.00, **Thickness** 5.00

*w/ brush bar: HC-CARGO 141185.*

## BSX170-1714 Brush Set

**Replacing:** 2007014085, 2007014077

**Servicing:** 0001364300, 0001364301, 0001364400, 0001364402, 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006

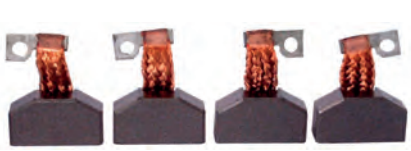
24 **V**, **Length** 15.00, **Lead length** 56.00, **Lead length 2** 43.00, **Height** 25.00, **Thickness** 10.00

## BSX172-173-1744 Brush Set

**Replacing:** 2007014084

**Servicing:** 0001417075, 0001417076

24 **V**, **Length** 19.00, **Lead length** 31.50, **Lead length 2** 61.00/174.00, **Height** 36.00, **Thickness** 12.00



## BSX172-1734 Brush Set

**Replacing:** 2007014079

**Servicing:** 0001410024, 0001410029, 0001410062, 0001410067, 0001410088, 0001410105, 0001410111, 0001410115, 0001411009, 0001414011

24 **V**, **Length** 19.00, **Lead length** 30.00, **Height** 36.00, **Thickness** 12.00

**Alternative no.:** 142327 5★

## BSX175-1764 Brush Set

**Replacing:** 1004320155, 1004320154

**Servicing:** 0001106012, 0001106017, 0001106018, 0001106019, 0001106022, 0001107088, 0001121017

12 **V**, **Length** 10.90/11.60, **Lead length** 24.50, **Height** 12.00, **Thickness** 5.00

**Alternative no.:** BS175

## BSX1774 Brush Set

**Replacing:** 9001453644, 2007014082

**Servicing:** 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012, 0001371013

24 **V**, **Length** 18.00, **Lead length** 33.50, **Height** 36.00, **Thickness** 9.00

**Alternative no.:** 142328 5★

## BSX178-1794 Brush Set

**Replacing:** 2007014080

**Servicing:** 0001418001, 0001418002, 0001418003, 0001418009, 0001418012, 0001418014, 0001418015, 0001418017, B001418009, B001441100

12 **V**, **Length** 19.00, **Lead length** 33.50, **Height** 36.00, **Thickness** 12.00

## BSX180-1814 Brush Set

**Replacing:** 2007014081

**Servicing:** 0001418016, B001441149

12 **V**, **Length** 19.00, **Lead length** 31.00, **Height** 36.00, **Thickness** 12.00

## BSX182-1834 Brush Set

**Replacing:** 9001454433

**Servicing:** 0001124018, 0001124019

12 **V**, **Length** 13.00/14.50, **Lead length** 25.00, **Height** 20.00, **Thickness** 6.00

## BSX190-1914 Brush Set

**Servicing:** 0001231002, 0001231003, 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231011, 0001231012, 0001231013

24 **V**, **Length** 15.40/16.40, **Lead length** 25.00, **Height** 25.00, **Thickness** 6.40

## BSX192-1934 Brush Set

**Replacing:** 6033AD1255, 6033AD1159, 6033AD1158, 6033AD0409, 6033AD0161, 6033AD0012, 6033AD0011

**Servicing:** 0001223002, 0001223003, 0001223004, 0001223007, 0001223009, 0001223013, 0001223014, 0001223016, 0001223500, 0001223501

12 **V**, **Length** 13.00/15.00, **Lead length** 25.00, **Height** 22.00, **Thickness** 6.00

## BSX194-1954 Brush Set

**Replacing:** 9003334362, 9003334361, 6033AD3197, 6033AD3196

**Servicing:** 0001230002, 0001230004, 0001230006, 0001230009, 0001230012, 0001230014

12 **V**, **Length** 15.40/16.40, **Lead length** 30.00, **Height** 27.00, **Thickness** 7.50

## BSX1964 Brush Set

**Replacing:** 1004320158

**Servicing:** 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009

12 **V**, **Length** 10.50/11.50, **Lead length** 24.00, **Height** 8.50, **Thickness** 5.00

**Alternative no.:** 142338

## BSX1974 Brush Set

**Replacing:** 2007014072

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 9000453029, 9000453065, 9000453066, 9000453067, 9000453068, B001851001

12 **V**, **Length** 18.00, **Lead length** 36.00, **Height** 36.00, **Thickness** 9.00

## BSX202-2034 Brush Set

**Servicing:** 0001330001, 0001330003, 0001330008

24 **V**, **Length** 23.00, **Lead length** 25.00, **Height** 32.00, **Thickness** 9.00

## BSX204-2054 Brush Set

**Servicing:** 0001106405, 0001106406, 0001120400, 0001120401, 0001120402, 0001120403, 0001120406, 0001120407, 0001120408, 0001120409

12 **V**, **Length** 12.00/12.70, **Lead length** 25.00, **Height** 10.00, **Thickness** 5.00



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## BSX206-2074 Brush Set

**Replacing:** 6033AD5127, 6033AD5126, 6033AD5098, 6033AD5097

**Servicing:** 0001241001

24 **V**, **Length** 18.00, **Lead length** 26.50, **Height** 28.00, **Thickness** 6.35

## BSX208-2094 Brush Set

**Replacing:** 1004320209, 1004320208

12 **V**, **Length** 14.20/15.20, **Lead length** 24.50, **Height** 18.00, **Thickness** 6.00

## BSX210-2114 Brush Set

**Replacing:** 1004320203, 1004320202, 1004320180, 1004320179

**Servicing:** 0001108400, 0001108401, 0001108402, 0001108403, 0001108405, 0001108406, 0001108408, 0001108420, 0001108421, 0001108429

12 **V**, **Length** 11.50/12.20, **Lead length** 24.50, **Height** 16.00, **Thickness** 4.50

## BSX212-2134 Brush Set

**Replacing:** 1004320207, 1004320206, 1004320205, 1004320204, 1004320184, 1004320183

**Servicing:** 0001108210, F000AL0110, F002G20326, F002G20348, F002G20546, F002G20582, F002G20593, F002G20820, F004A94007, F005M00001

12 **V**, **Length** 11.50/13.00, **Lead length** 24.50, **Height** 16.00, **Thickness** 5.00

## BSX214-2154 Brush Set

**Replacing:** 1004320235, 1004320234, 1004320229, 1004320228

**Servicing:** 0001109014, 0001115005, 0001115006, 0001115008, 0001115011, 0001115012, 0001115013, 0001115015, 0001115021, 0001115024

12 **V**, **Length** 11.00, **Lead length** 25.00, **Height** 17.95, **Thickness** 5.95

## BSX216-2174 Brush Set

**Replacing:** 6033AD5178, 6033AD5177

**Servicing:** 0001231004, 0001231005, 0001231007, 0001231008, 0001231009, 0001231013, 0001231017, 0001231019, 0001231029, 0001231030

24 **V**, **Length** 18.00, **Lead length** 26.00, **Height** 28.00, **Thickness** 5.35

## BSX218-2194 Brush Set

**Replacing:** 1004320231, 1004320230

**Servicing:** 0001107103, 0001107107, 0001107109, 0001107110, 0001107111, 0001121024, 0001121031

12 **V**, **Length** 10.90/11.60, **Lead length** 25.00, **Height** 12.00, **Thickness** 5.00

## BSX344 Brush Set

**Replacing:** 2007014021, 1007014107

**Servicing:** 0001401069, 0001402018, 0001402031, 0001402043, 0001402050, 0001402053, 0001402054, 0001402055, 0001402057, 0001402058

24 **V**, **Length** 28.50, **Lead length** 45.00, **Height** 20.00, **Thickness** 9.00

## BSX354 Brush Set

**Replacing:** 1007014109

**Servicing:** 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401041, 0001401044, 0001401046

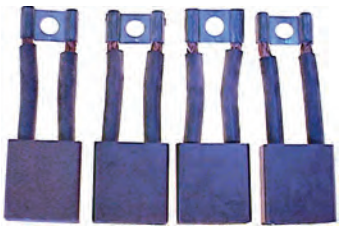
12 **V**, **Length** 28.50, **Lead length** 47.00, **Height** 20.00, **Thickness** 12.00

## BSX434 Brush Set

**Replacing:** 2007014041, 1107014110, 1007014123, 1007014110

**Servicing:** 0001203009, 0001204002, 0001204005, 0001205015, 0001205017, 0001304009, 0001304010, 0001304016, 0001305011, 0001305012

6/12 **V**, **Length** 22.00, **Lead length** 34.00, **Height** 16.00, **Thickness** 7.00



## BSX444 Brush Set

**Replacing:** 2007014037, 2007014009, 2007014006

**Servicing:** 0001356003, 0001358017, 0001358018, 0001358020, 0001358026, 0001358033, 0001358035, 0001358038, 0001358046, 0001358047

12 **V**, **Length** 22.50, **Lead length** 43.00, **Height** 22.00, **Thickness** 8.00

## BSX494 Brush Set

**Replacing:** 1107014126

**Servicing:** 0001207001, 0001207003, 0001207005, 0001207010, 0001207014, 0001207016, 0001207017, AL/EEF0.5/6, AL/EEF0.5/6L1

6 **V**, **Length** 18.00, **Lead length** 32.00, **Height** 16.00, **Thickness** 7.00



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## BSX524 Brush Set

**Replacing:** 2007014000

**Servicing:** 0001154001, 0001154007, 0001155003, 0001155009, 0001155011, 0001155016, 0001155017, 9000141004, 9000141006, 9000141008

6/12 **V**, **Length** 17.50, **Lead length** 33.00, **Height** 14.00, **Thickness** 7.00

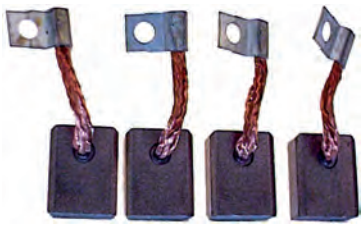
## BSX704 Brush Set

**Replacing:** 2007014018, 1007014128

**Servicing:** 0001157001, 0001157002, 0001157003, 0001157004, 0001157005, 0001157006, 0001157007, 0001157012, 0001157013, 0001157014

12 **V**, **Length** 16.00, **Lead length** 26.00, **Height** 14.00, **Thickness** 7.00

**Alternative no.:** BS70/0



## BSX744 Brush Set

**Replacing:** 2007014024

**Servicing:** 0001155004, 0001155006, 0001155008, 0001155009, 0001155010, 0001155015, 0001155016, 0001155017, 0001155018, 0001157009

12 **V**, **Length** 17.50, **Lead length** 33.00, **Height** 14.00, **Thickness** 7.00

## BSX754 Brush Set

**Replacing:** 2007014026, 2004320173

**Servicing:** 0001208203, 0001208205, 0001212200, 0001212202

12 **V**, **Length** 18.00, **Lead length** 28.00, **Height** 10.00, **Thickness** 7.00

**Alternative no.:** BS75/0, 142320 5★, 142338

## BSX764 Brush Set

**Replacing:** 1007014121

**Servicing:** 0001213004, 0001311033, 0001311034, 0001311042, 0001311043, 0001311047, 0001311051, 0001311101, 0001311103, 0001311105

12 **V**, **Length** 18.00, **Lead length** 33.00, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** 142340

## BSX784 Brush Set

**Replacing:** 2007014027

**Servicing:** 0001157009, 0001157010, 9000692069

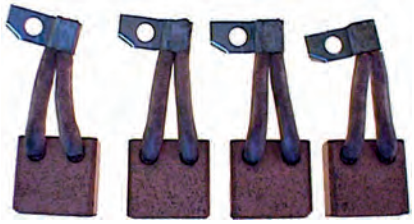
12 **V**, **Length** 16.00, **Lead length** 28.00, **Height** 10.00, **Thickness** 7.00

## BSX934 Brush Set

**Replacing:** 2007014016

**Servicing:** 0001363001, 0001363101

24 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 16.00, **Thickness** 9.00



## BSX964 Brush Set

**Replacing:** 2007014566, 2007014064, 2007014056, 2007014052, 2007014050, 2007014044

**Servicing:** 0001358201, 0001358202, 0001359001, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010, 0001359012, 0001359013

12 **V**, **Length** 23.00, **Lead length** 43.00, **Height** 25.00, **Thickness** 10.00

**Alternative no.:** BS96

## BSX97F4 Brush Set

**Replacing:** 2007014057, 1007014130

**Servicing:** 0001315002, 0001315004, 0001315005, 0001362034, 0001362035, 0001362036, 0001362037, 0001362038, 0001362039, 0001362040

12 **V**, **Length** 17.00, **Lead length** 33.50, **Height** 16.00, **Thickness** 9.00

## BSX98F4 Brush Set

12 **V**, **Length** 18.00, **Lead length** 34.00, **Height** 10.00, **Thickness** 7.00

## Brushes

Pkg. 100

## BS70/0 Brush

12 **V**, **Length** 15.92, **Lead length** 27.00, **Height** 13.85, **Thickness** 6.85

**Alternative no.:** BSX704

Pkg. 100

## BS75/0 Brush

12 **V**, **Length** 18.00, **Lead length** 33.50, **Height** 9.90, **Thickness** 6.90

**Alternative no.:** BSX754



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Pkg. 100

**BS96** Brush

12 **V**, **Length** 23.05, **Lead length** 41.00, **Height** 24.80, **Thickness** 9.75

**Alternative no.:** BSX964

Pkg. 100

**BS100** Brush

24 **V**, **Length** 23.05, **Lead length** 41.50, **Height** 24.90, **Thickness** 7.80

**Alternative no.:** BSX1004

Pkg. 100

**BS102** Brush

12 **V**, **Length** 25.40, **Lead length** 35.00, **Height** 15.85, **Thickness** 8.85

**Alternative no.:** BSX1024

Pkg. 100

**BS104/0** Brush

**Servicing:** 0001314047

12 **V**, **Length** 18.10, **Lead length** 32.50, **Height** 15.90, **Thickness** 6.90

**Alternative no.:** BSX1042

Pkg. 100

**BS134/0** Brush

**Length** 16.30, **Lead length** 42.50, **Height** 24.85, **Thickness** 9.85

**Alternative no.:** BSX134-1444

Pkg. 100

**BS135/0** Brush

**Servicing:** 0001368082

24 **V**, **Length** 16.60, **Lead length** 42.70, **Height** 24.80, **Thickness** 8.00

**Alternative no.:** BSX135-1454

Pkg. 100

**BS139** Brush

12 **V**, **Length** 17.05, **Lead length** 42.00, **Height** 15.80, **Thickness** 8.95

**Alternative no.:** BSX1394

Pkg. 100

**BS140/0** Brush

12 **V**, **Length** 15.00, **Lead length** 26.50, **Height** 15.85, **Thickness** 6.95

**Alternative no.:** BSX1404

Pkg. 100

**BS144/0** Brush

12 **V**, **Length** 16.60, **Lead length** 53.00, **Height** 24.85, **Thickness** 9.85

Pkg. 100

**BS145/0** Brush

**Servicing:** 0001368082

24 **V**, **Length** 16.60, **Lead length** 53.00, **Height** 24.85, **Thickness** 7.90

**Alternative no.:** BSX135-1454

Pkg. 100

**BS148** Brush

24 **V**, **Length** 27.00, **Lead length** 53.00, **Height** 35.75, **Thickness** 11.80

**Alternative no.:** BSX1484

Pkg. 100

**BS149** Brush

12 **V**, **Length** 14.05, **Lead length** 26.00, **Height** 9.90, **Thickness** 6.95

**Alternative no.:** BSX1494

Pkg. 100

## BS151 Brush

**Replacing:** 9003334328

12 **V**, **Length** 18.90, **Lead length** 25.00, **Height** 17.95, **Thickness** 7.40

Pkg. 100

## BS151S# Brush

12 **V**, **Length** 17.35/19.30, **Lead length** 25.00, **Height** 17.90, **Thickness** 7.40

Pkg. 100

## BS157 Brush

**Replacing:** 9001320110

**Servicing:** 0001105205, 0001109064, 0001109065, 0001109069, 0001109258, 0001109259, 0001109268, 0001109269, 0001109270, 0001109300

12 **V**, **Length** 14.40, **Lead length** 24.00, **Height** 17.85, **Thickness** 6.00

**Alternative no.:** BSX157-1584

Pkg. 100

## BS158 Brush

**Replacing:** 9001320111

**Servicing:** 0001105205, 0001109064, 0001109065, 0001109069, 0001109258, 0001109259, 0001109268, 0001109269, 0001109270, 0001109300

12 **V**, **Length** 14.35, **Lead length** 25.00, **Height** 17.80, **Thickness** 5.90

**Alternative no.:** BSX157-1584

Pkg. 100

## BS159 Brush

**Replacing:** 9001320113

**Servicing:** 0001108196, 0001108202, 0001108222, 0001108240, 0001108245

12 **V**, **Length** 12.85, **Lead length** 24.00, **Height** 15.85, **Thickness** 4.85

**Alternative no.:** BSX159-1604

Pkg. 100

## BS160 Brush

**Replacing:** 9001320114

**Servicing:** 0001108196, 0001108202, 0001108222, 0001108240, 0001108245

12 **V**, **Length** 12.85, **Lead length** 23.50, **Height** 15.80, **Thickness** 4.85

**Alternative no.:** BSX159-1604

Pkg. 100

## BS175 Brush

**Replacing:** 9001320118

**Servicing:** 0001106014, 0001106019, 0001106023, 0001107076, 0001107080, 0001107091, 0001121018, 0001121019, 0001121023, 0001121024

12 **V**, **Length** 11.40, **Lead length** 25.00, **Height** 11.90, **Thickness** 4.75

**Alternative no.:** BSX175-1764

Pkg. 100

## BS176 Brush

**Replacing:** 9001320119

**Servicing:** 0001106014, 0001106019, 0001106023, 0001107076, 0001107080, 0001107091, 0001121018, 0001121019, 0001121023, 0001121024

12 **V**, **Length** 11.40, **Lead length** 24.50, **Height** 11.90, **Thickness** 4.90

**Alternative no.:** BSX175-1764

# Bushings

Pkg. 10

## 140003 Bushing

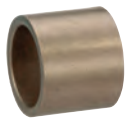
**Replacing:** 1000301046, 1000301001

**Servicing:** 0001157001, 0001157002, 0001157003, 0001157004, 0001157005, 0001157006, 0001157007, 0001157008, 0001157009, 0001157010

**ID** 12.55, **OD** 16.56, **Length** 11.50

**Alternative no.:** B140003

Pkg. 10



## 140004 Bushing

**Replacing:** 2000301009, 2000301001

**Servicing:** 0001354004, 0001354005, 0001354016, 0001354018, 0001354027, 0001354029, 0001354031, 0001354038, 0001354055, 0001354064

**ID** 14.08, **OD** 17.58, **Length** 15.00

**Alternative no.:** B140004



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Pkg. 10

## 140006 Bushing

**Replacing:** 1900301420

**Servicing:** 0001358200, 0001358201, 0001358202, 0001359001, 0001359002, 0001359003, 0001359004, 0001359008, 0001359010, 0001359012

**ID** 14.04, **OD** 20.02, **Length** 10.00

**Alternative no.:** B140006

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## 140007# Bushing

**Replacing:** 2000410040

**Servicing:** 0001401041, 0001401044, 0001401046, 0001401047, 0001401049, 0001401050, 0001401052, 0001401057, 0001401060, 0001401062

**ID** 34.50, **OD** 39.17, **Length** 41.80

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Pkg. 10

## 140008 Bushing

**Replacing:** 1000301021

**Servicing:** 0001106001, 0001106002, 0001106004, 0001107007, 0001107008, 0001107020, 0001107021, 0001107052, 0001107053, 0001108005

**ID** 11.00, **OD** 13.60, **Length** 13.80

**Alternative no.:** B140008

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Pkg. 10

## 140009 Bushing

**Replacing:** 1000301011

**Servicing:** 0001208205, 0001218002, 0001218004, 0001218005, 0001218006, 0001218012, 0001218013, 0001218017, 0001218018, 0001218021

**ID** 12.10, **OD** 16.12, **Length** 16.00

**Alternative no.:** B140009

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Pkg. 10

## 140010 Bushing

**Replacing:** 2000301000

**Servicing:** 0001223026, 0001230001, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010

**ID** 12.59, **OD** 16.55, **Length** 18.00

**Alternative no.:** B140010

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Pkg. 10

## 140011 Bushing

**Replacing:** 2000301015

**Servicing:** 0001402018, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024

**ID** 40.12, **OD** 48.04, **Length** 10.50

**Alternative no.:** B140011, B140011U

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Pkg. 10

## 140012 Bushing

**Replacing:** 1000301047, 1000301002

**Servicing:** 0001201009, 0001203008, 0001203009, 0001203010, 0001204002, 0001205015, 0001205017, 0001207001, 0001207005, 0001208006

**ID** 12.56, **OD** 16.55, **Length** 14.00

**Alternative no.:** B140012

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Pkg. 10

## 140014 Bushing

**Replacing:** 9900333089, 2000301128, 2000301013

**Servicing:** 0001107109, 0001107110, 0001107111, 0001107450, 0001107451, 0001107508, 0001107509, 0001107534, 0001108162, 0001113009

**ID** 10.08, **OD** 14.09, **Length** 13.00

**Alternative no.:** B140014

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Pkg. 10

## 140016 Bushing

**Replacing:** 2000301019, 1000301042, 1000301000

**Servicing:** 0001211227, 0001304009, 0001304010, 0001304016, 0001305010, 0001305011, 0001305012, 0001305013, 0001305016, 0001305018

**ID** 12.57, **OD** 16.55, **Length** 15.80

**Alternative no.:** B140016

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Pkg. 10

## 140017 Bushing

**Replacing:** 1000301012

**Servicing:** 0001107012, 0001107013, 0001107017, 0001107018, 0001107024, 0001107034, 0001107037, 0001107045, 0001107048, 0001107054

**ID** 12.09, **OD** 16.11, **Length** 14.00

**Alternative no.:** B140017

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Pkg. 10

## 140018 Bushing

**Replacing:** 9001082166, 2000301036

**Servicing:** 0001106018, 0001106020, 0001107003, 0001107004, 0001107005, 0001107006, 0001107009, 0001107014, 0001107015, 0001107016

**ID** 12.08, **OD** 14.09, **Length** 13.90

**Alternative no.:** B140018

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Pkg. 10

## 140019 Bushing

**Replacing:** 2000301047, 2000301043

**Servicing:** 0001311028, 0001311029, 0001311030, 0001311031, 0001330004, 0001330007, 0001330011, 0001330016, 0001330017, 0001362005

**ID** 14.06, **OD** 18.03, **Length** 14.00

**Alternative no.:** B140019

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Pkg. 10

## 140020 Bushing

**Replacing:** 2000301140, 2000301002

**Servicing:** 0001354004, 0001354005, 0001354027, 0001354031, 0001354064, 0001354077, 0001354079, 0001354082, 0001354089, 0001354091

**ID** 19.13, **OD** 25.09, **Length** 10.00

**Alternative no.:** B140020

Pkg. 10

## 140025 Bushing

**Replacing:** 2000301026

**Servicing:** 0001358200, 0001358201, 0001358202, 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006, 0001362007

**ID** 19.11, **OD** 23.08, **Length** 9.80

**Alternative no.:** B140025

Pkg. 10

## 140026 Bushing

**Replacing:** 2000301045, 2000301041

**Servicing:** 0001358048, 0001358051, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359013, 0001359014, 0001359016

**ID** 19.10, **OD** 23.10, **Length** 13.00

**Alternative no.:** B140026

Pkg. 10

## 140027 Bushing

**Replacing:** 1000301034, 1000301022

**Servicing:** 0001112010, 0001112011, 0001112017, 0001112018, 0001114003, 0001114004, 0001114005, 0001114006, 0001114008, 0001114009

**ID** 17.60, **OD** 21.60, **Length** 9.40

**Alternative no.:** B140027

Pkg. 10

## 140028 Bushing

**Replacing:** 2000301022

**Servicing:** 0001207016, 0001207017, 0001207020, 0001211012, 0001211013, 0001211221, 0001211222, 0001211223, 0001211224, 0001211252

**ID** 11.10, **OD** 12.60, **Length** 11.50

**Alternative no.:** B140028

Pkg. 10

## 140029 Bushing

**Replacing:** 1000301077, 1000301053, 1000301026

**Servicing:** 0001108183, 0001109014, 0001109015, 0001109036, 0001110005, 0001110016, 0001110054, 0001110092, 0001110095, 0001110124

**ID** 12.10, **OD** 13.60, **Length** 13.50

**Alternative no.:** B140029

Pkg. 10

## 140030 Bushing

**Replacing:** 2000301020, 1000301112, 1000301088, 1000301082, 1000301066, 1000301009

**Servicing:** 00010DB98E, 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107010, 0001107011, 0001107016

**ID** 12.10, **OD** 13.60, **Length** 11.50

**Alternative no.:** B140030

Pkg. 10

## 140031 Bushing

**Replacing:** 2000301024

**Servicing:** 0001211995, 0001358035, 0001358040, 0001358201, 0001358202, 0001362005, 0001362006, 0001362008, 0001362009, 0001362010

**ID** 14.30, **OD** 16.00, **Length** 13.70

**Alternative no.:** B140031

Pkg. 10

## 140033 Bushing

**Replacing:** 2000301031, 1000301019

**Servicing:** 0001212002, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212013, 0001212200, 0001212202

**ID** 14.30, **OD** 16.00, **Length** 11.50

**Alternative no.:** B140033

Pkg. 10

## 140035 Bushing

**Replacing:** 1000301023

**Servicing:** 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120410

**ID** 14.36, **OD** 16.02, **Length** 10.00

**Alternative no.:** B140035

Pkg. 10

## 140043 Bushing

**Replacing:** 1000301063

**Servicing:** 0001108074, 0001108085, 0001108086, 0001108099, 0001108112, 0001108122, 0001108143, 0001112007, 0001112019, 0001223500

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** B140043

Pkg. 10

## 140111 Bushing

**Replacing:** 2000301016

**Servicing:** 0001360049, 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024

**ID** 22.14, **OD** 28.07, **Length** 11.20

**Alternative no.:** B140111



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Pkg. 10

## 140140 Bushing

**Replacing:** 2000301004

**Servicing:** 0001400016, 0001401011, 0001401012, 0001401019, 0001401023, 0001401026, 0001401027, 0001401028, 0001401044, 0001401046

**ID** 16.67, **OD** 19.60, **Length** 19.00

**Alternative no.:** B140140

Pkg. 10

## 140151 Bushing

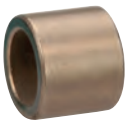
**Replacing:** 2000301011

**Servicing:** 0001358035, 0001358040, 0001358046, 0001358047, 0001358049, 0001359012, 0001359016, 0001359027, 0001359044, 0001359046

**ID** 19.12, **OD** 25.10, **Length** 12.80

**Alternative no.:** B140151

Pkg. 10



## 140203 Bushing

**Replacing:** 2000301037

**Servicing:** 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106, 0001364108, 0001364200, 0001364201

**ID** 14.08, **OD** 20.03, **Length** 17.00

**Alternative no.:** B140203

Pkg. 10

## 140204 Bushing

**Replacing:** 9001140347

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

**ID** 10.05, **OD** 16.55, **Length** 11.50

**Alternative no.:** B140204

Pkg. 10

## 140208 Bushing

**Replacing:** F000AL1005, 2000301056, 1000301056

**Servicing:** 00010DB98E, 0001105205, 0001106001, 0001106002, 0001106004, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016

**ID** 10.11, **OD** 14.04, **Length** 9.90

**Alternative no.:** B140208

Pkg. 10

## 140221 Bushing

**ID** 16.09, **OD** 18.00, **Length** 22.00

**Alternative no.:** B140221

Pkg. 10

## 140248 Bushing

**Replacing:** 1000301061

**Servicing:** 0001108074, 0001108112, 0001108125, 0001108128, 0001108130, 0001108162, 0001110016, 0001110052, 0001110075, 0001110083

**ID** 10.03, **OD** 16.55, **Length** 10.35

**Alternative no.:** B140248

Pkg. 10

## 140249 Bushing

**Replacing:** 1000301076, 1000301054

**Servicing:** 0001106001, 0001106002, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023

**ID** 8.10, **OD** 11.12, **Length** 8.00

**Alternative no.:** B140249

Pkg. 10

## 140250 Bushing

**Servicing:** 0001110001, 0001110002, 0001110014, 0001110015, 0001110133, 0001110134, 0001117008, 0001123014, 0001123015, 0001124007

**ID** 8.09, **OD** 11.12, **Length** 10.00

**Alternative no.:** B140250

Pkg. 10

## 140251 Bushing

**Replacing:** 1000301074, 1000301055

**Servicing:** 0001106001, 0001106002, 0001106011, 0001107005, 0001107006, 0001107014, 0001107016, 0001107027, 0001107028, 0001107041

**ID** 18.00, **OD** 22.10, **Length** 8.00

**Alternative no.:** B140251

Pkg. 10

## 140252 Bushing

**Replacing:** 1000301075, 1000301068

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107003

**ID** 18.03, **OD** 22.10, **Length** 6.00

**Alternative no.:** B140252

Pkg. 10

## 140256 Bushing

**Replacing:** 1000301013

**Servicing:** 0001212001, 0001212002, 0001212003, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212013

**ID** 26.10, **OD/collar** 33.00, **OD** 30.40, **Length** 11.35, **Height/collar** 2.50

**Alternative no.:** B140256

Pkg. 10

## 140261 Bushing

**Replacing:** 1000301003
**Servicing:** 0001223504
**ID** 14.39, **OD** 16.00, **Length** 18.00
**Alternative no.:** B140261

Pkg. 10

## 140319 Bushing

**Replacing:** 1000301083
**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001106405
**ID** 10.00, **OD** 14.00, **Length** 12.00
**Alternative no.:** B140319

Pkg. 10

## 140423 Bushing

**Servicing:** 0001112003, 0001112004, 0001112005, 0001112006, 0001112007, 0001112009, 0001112010, 0001112011, 0001112012, 0001112013
**ID** 12.55, **OD** 16.50, **Length** 10.60
**Alternative no.:** B140423

Pkg. 10

## 140500 Bushing

**Replacing:** 2000301023, 1000301008
**Servicing:** 0001111001, 0001112021, 0001112022, 0001112027, 0001112028, 0001112044, 0001113001, 0001113002, 0001113007, 0001113008
**ID** 12.11, **OD** 14.10, **Length** 12.00
**Alternative no.:** B140500

Pkg. 10

## 140563 Bushing

**Replacing:** 1000322005
**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011
**ID** 10.07, **OD/collar** 18.70, **OD** 16.55, **Length** 14.60, **Height/collar** 1.50
**Alternative no.:** B140563

Pkg. 10

## 140624 Bushing

**ID** 15.45, **OD** 17.00, **Length** 9.85

Pkg. 10

## 140645 Bushing

**Replacing:** 1000301010
**Servicing:** 0001207001, 0001207005, 0001208006, 0001208017, 0001310007, 0001310008, 0001310019, AL/EEF0.5/6, AL/EEF0.5/6L1
**ID** 12.63, **OD** 14.10, **Length** 10.50
**Alternative no.:** B140645

Pkg. 10

## 140692 Bushing

**Replacing:** 1000301027
**Servicing:** 0001312104, 0001312105, 0001312106, 0001312107, 0001312108, 0001312109, B001335003
**ID** 26.10, **OD/collar** 33.20, **OD** 32.10, **Length** 11.60, **Height/collar** 2.50
**Alternative no.:** 610291

Pkg. 10

## 140711 Bushing

**Servicing:** 0001107094, 0001107095, 0001108184, B001110315
**ID** 18.02, **OD** 22.04, **Length** 5.90

Pkg. 10

## 140745 Bushing

**Replacing:** 1900301454
**Servicing:** 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009, 0001510010, 0001510011
**ID** 24.90, **OD** 32.00, **Length** 17.85

Pkg. 10

## 140782 Bushing

**ID** 12.13, **OD** 13.62, **Length** 20.00
**Alternative no.:** B140782

Pkg. 10

## 140850 Bushing

**Replacing:** 1000390004, 1000390003, 1000390001
**Servicing:** 0001121001, 0001121002, 0001121003, 0001121006, 0001121007, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016
**ID** 28.35, **OD** 32.25, **Length** 10.00



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Pkg. 10

## 140853 Bushing

**Replacing:** 1000301032

**Servicing:** 0001106001, 0001106002, 0001106004, 0001107031, 0001107032, 0001107049, 0001107400, 0001107401, 0001107403, 0001107404

**ID** 11.09, **OD** 12.60, **Length** 11.50

**Alternative no.:** B140853

Pkg. 10

## 140854 Bushing

**Replacing:** 1000301106, 1000301031

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106020, 0001106022, 0001106023, 0001106024

**ID** 12.10, **OD** 13.57, **Length** 11.50

**Alternative no.:** B140854

Pkg. 10

## 140855 Bushing

**Replacing:** 2000301025

**Servicing:** 0001362001, 0001362002, 0001362027, 0001362028, 0001362029, 9000143406

**ID** 14.10, **OD** 20.05, **Length** 10.00

Pkg. 10

## 140856 Bushing

**Replacing:** 1000301062

**Servicing:** 0001112003, 0001112004, 0001112005, 0001112006, 0001112007, 0001112008, 0001112009, 0001112010, 0001112011, 0001112012

**ID** 12.57, **OD** 16.54, **Length** 9.80

**Alternative no.:** B140856

Pkg. 10

## 140857 Bushing

**Servicing:** 1000301009

**ID** 12.10, **OD** 13.50, **Length** 11.50

Pkg. 10

## 140858 Bushing

**Replacing:** 2000301040

**Servicing:** 0001154001, 0001155003, 0001155004, 0001155011, 0001157011, 9000141001, 9000141002, 9000141009, AL/EED0.5/12R4

**ID** 12.00, **OD** 14.00, **Length** 11.90

**Alternative no.:** B140858

Pkg. 10

## 140859 Bushing

**Replacing:** 2000301049

**Servicing:** 0001359067, 0001359072, 0001359075, 0001359084, 0001359094, 0001359095, 0001359099, 0001359100, 0001359105, 0001359118

**ID** 19.13, **OD** 23.05, **Length** 13.20

**Alternative no.:** B140859

Pkg. 10

## 140862 Bushing

**Replacing:** 2000301051

**Servicing:** 0001358202, 0001362307

**ID** 14.30, **OD** 16.03, **Length** 16.90

Pkg. 10

## 140864# Bushing

**Replacing:** 2000301139

**Servicing:** 0001600002, 0001600003, 0001600005, 0001600006, 0001600007, 0001600010, 0001600011, 0001600012, 0001600013, 0001601001

**ID** 30.10, **OD** 37.08, **Length** 25.00

Pkg. 10

## 140865 Bushing

**ID** 14.44, **OD** 16.00, **Length** 15.20

Pkg. 10

## 140866 Bushing

**Replacing:** 2000301006

**Servicing:** 0001208515, 0001223500, 0001223502, 0001223505, 0001358048, 0001359003, 0001359008, 0001359010, 0001359012, 0001359013

**ID** 14.36, **OD** 16.02, **Length** 23.50

**Alternative no.:** B140866

Pkg. 10

## 140867 Bushing

**Replacing:** 2000301044

**Servicing:** 0001223501, 0001223503, 0001223504, 0001362051, 0001362052, 0001362063, 0001362064, 0001362093, 0001362096, 0001362097

**ID** 14.34, **OD** 16.04, **Length** 20.39

**Alternative no.:** B140867

Pkg. 10

## 140911 Bushing

**Manufacturer:** Bosch
**Replacing:** 9003330905
**Servicing:** 9000331201, 9000331203
**ID** 10.03, **OD** 16.10, **Length** 12.50

Pkg. 10

## 140916 Bushing

**ID** 8.02, **OD** 11.51, **Length** 11.43

Pkg. 10

## 140928 Bushing

**Servicing:** 0001124005, 0001124006
**ID** 18.01, **OD** 22.24, **Length** 5.93

Pkg. 10

## 140929 Bushing

**Replacing:** 1000301072
**Servicing:** 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120410
**ID** 11.03, **OD** 13.54, **Length** 9.00
**Alternative no.:** B140929

Pkg. 10

## 140962 Bushing

**Replacing:** 9001083373
**Servicing:** 9000083027, 9000083028, 9000083043, 9000083045, 9000083049, 9000083053, 9000083054, 9000083055, 9000083056, 9000083057
**ID** 15.72, **OD** 19.58, **Length** 9.80

Pkg. 10

## 140984 Bushing

**Replacing:** 1000301080
**Servicing:** 0001108430, 0001108431, 0001116001, 0001116003, 0001116005, 0001116006, 0001116008, 0001116009, F002G20149, F002G20170
**ID** 12.55, **OD** 16.57, **Length** 7.85

Pkg. 10

## 140988 Bushing

**Replacing:** 9003330317
**Servicing:** 0001218602, 0001218620, 0001218703, 0001218710, 0001218711, 0001218712, 0001218715, 0001218716, 0001218719, 0001218722
**ID** 10.03, **OD** 16.02, **Length** 10.00

Pkg. 10

## 141061 Bushing

**Replacing:** 1000301069
**Servicing:** 0001108003, 0001108112, 0001108120, 0001108124, 0001108147, 0001108149, 0001108162, 0001110016, 0001110039, 0001110053
**ID** 10.04, **OD/collar** 18.50, **OD** 16.55, **Length** 13.80, **Height/collar** 2.90

Pkg. 10

## 141095 Bushing

**ID** 12.11, **OD** 14.02, **Length** 20.80

Pkg. 10

## 141096 Bushing

**Servicing:** 0001218012, 0001218013, 0001218018, 0001218024, 0001218103, 0001218105, 0001218113, 0001218114, 0001218115, 0001218116
**ID** 18.03, **OD** 22.10, **Length** 7.00

Pkg. 10

## 141099 Bushing

**Servicing:** 0001218166, 0001223013, 0001223014, 0001223504
**ID** 17.93, **OD** 22.10, **Length** 7.05

Pkg. 5

## 141115 Bushing

**Replacing:** 1000301114, 1000301087
**Servicing:** 0001121022, 0001121023, 0001125018, 0001125046, 0001125047, 0001125048, 0001125049, 0001125605, 0001125606, 1006209681
**ID** 12.20, **OD** 15.15, **Length** 8.40



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Pkg. 10

## 141117 Bushing

**Servicing:** 0001218004, 0001218005, 0001218008, 0001218009, 0001218017, 0001218026, 0001218134, 0001218145, B001233104, B001233112

**ID** 5.20, **OD** 9.00, **Length** 9.00

Pkg. 10

## 141118 Bushing

**ID** 8.01, **OD** 11.12, **Length** 8.00

Pkg. 10

## 141119 Bushing

**ID** 10.10, **OD** 14.00, **Length** 9.55

Pkg. 10

## 141141 Bushing

**ID** 20.50, **OD** 26.55, **Length** 11.90

Pkg. 10

## 141161 Bushing

**Servicing:** 1006209949

**ID** 14.25, **OD** 16.05, **Length** 9.95

Pkg. 10

## 141165 Bushing

**Replacing:** 1000301113

**Servicing:** 0001123004, 0001123005, 0001123014, 0001123015, 0001123017, 0001123020, 0001123021, 0001123028, 0001123029, 0001123038

**ID** 11.07, **OD** 14.02, **Length** 9.00

Pkg. 10

## 141191 Bushing

**Servicing:** 2006202011

**ID** 20.00, **OD** 22.20, **Length** 26.80

Pkg. 10

## 141204# Bushing

**Servicing:** 1006208280, 1006208450, 1006209450, 1006209451, 2006209280

**ID** 14.23, **OD** 16.85, **Length** 10.00

Pkg. 10

## 141212 Bushing

**Servicing:** 0001231002, 0001231032, B001260015

**ID** 21.03, **OD** 25.00, **Length** 11.80

Pkg. 10

## 141241 Bushing

**Servicing:** 2006202000

**ID** 24.00, **OD** 25.40, **Length** 10.65

Pkg. 10

## 142049 Bushing

**ID** 7.05, **OD** 12.03, **Length** 8.60

Pkg. 10

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## 142054* Bushing

**Replacing:** 6033AC0423

**Servicing:** 0001330001, 0001330003, 0001330005, 0001330006, 0001330008, 0001330012, 0001330013, 0001330014, 0001330018, 0001330020

**ID** 14.00, **OD** 20.00, **Length** 13.90

Pkg. 5

## 142061 Bushing

**Replacing:** 6033AC5050

**Servicing:** 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241008, 0001241009, 0001241012, 0001241014, 0001241015

**ID** 18.00, **OD** 20.08, **Length** 25.95

Pkg. 10

## 142068 Bushing

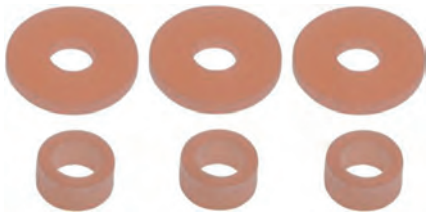
**ID** 6.05, **OD** 12.00, **Length** 11.07

Pkg. 10

## 237666 Bushing

**Replacing:** 1000300029
**Servicing:** 0001109300, 0001109301, 0001109302, 0001109303, 0001109332, 0001109333, 0001109334, 0001109335, 0001109409, 0001109410
**ID** 9.35, **OD** 11.98, **Length** 12.46

Pkg. 10



## 238788 Bushing Kit

**Servicing:** 0331100016, 0331101006, 0331101009
**ID** 3.25/3.25, **OD** 8.96/5.30
*W: 1.10/2.40 mm.*

Pkg. 10

## 332820 Bushing

**Replacing:** 1000301091
**Servicing:** 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409, 0001106410, 0001107400, 0001107401, 0001107402
**ID** 12.56, **OD** 16.60, **Length** 6.00

Pkg. 100

## B140003 Bushing

**Replacing:** 1000301046, 1000301001
**Servicing:** 0001314047
**ID** 12.60, **OD** 16.56, **Length** 11.50
**Alternative no.:** 140003

Pkg. 100

## B140004 Bushing

**Replacing:** 2000301009, 2000301001
**ID** 14.08, **OD** 17.58, **Length** 15.00
*17.60x14.05x14.48 mm.*
**Alternative no.:** 140004

Pkg. 100

## B140006 Bushing

**Replacing:** 1900301420
**ID** 14.04, **OD** 20.02, **Length** 10.00
**Alternative no.:** 140006

Pkg. 100

## B140008 Bushing

**Replacing:** 1000301021
**ID** 11.06, **OD** 13.60, **Length** 14.00
**Alternative no.:** 140008

Pkg. 100

## B140009 Bushing

**Replacing:** 1000301011
**ID** 12.10, **OD** 16.12, **Length** 16.00
**Alternative no.:** 140009

Pkg. 100

## B140010 Bushing

**Replacing:** 2000301000
**Servicing:** 0001231004, 0001231005, 0001231008, 0001231009, 0001231011, 0001231014, 0001231016, 0001231045, 0001368082, 0001368311
**ID** 12.56, **OD** 16.55, **Length** 18.00
**Alternative no.:** 140010

Pkg. 100

## B140011 Bushing

**Replacing:** 2000301015
**ID** 40.12, **OD** 48.04, **Length** 10.50
**Alternative no.:** 140011, B140011U

Pkg. 100

## B140011U Bushing

**Replacing:** 2000301015
**Servicing:** 0001416079
**Alternative no.:** 140011, B140011



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#Available while stock last, * Program development.

Pkg. 100

**B140012** Bushing

**Replacing:** 1000301047, 1000301002
**ID** 12.56, **OD** 16.55, **Length** 14.00
**Alternative no.:** 140012

Pkg. 100

**B140014** Bushing

**Replacing:** 9900333089, 2000301128, 2000301013
**Servicing:** 0001107535
**ID** 10.08, **OD** 14.09, **Length** 13.00
**Alternative no.:** 140014

Pkg. 100

**B140016** Bushing

**Replacing:** 2000301019, 1000301042, 1000301000
**ID** 12.57, **OD** 16.55, **Length** 15.80
**Alternative no.:** 140016

Pkg. 100

**B140017** Bushing

**Replacing:** 1000301012
**ID** 12.05, **OD** 16.10, **Length** 14.00
**Alternative no.:** 140017

Pkg. 100

**B140018** Bushing

**Replacing:** 9001082166, 2000301036
**Servicing:** 0001107076, 0001108196, 0001108245, 0001115015, 0986010030
**ID** 12.08, **OD** 14.09, **Length** 13.90
**Alternative no.:** 140018

Pkg. 100

**B140019** Bushing

**Replacing:** 2000301047, 2000301043
**Servicing:** 0001368082, 0001368311, 0001368313, 0001372005, B001860023
**ID** 14.06, **OD** 18.03, **Length** 14.00
**Alternative no.:** 140019

Pkg. 100

**B140020** Bushing

**Replacing:** 2000301140, 2000301002
**ID** 19.13, **OD** 25.09, **Length** 10.00
**Alternative no.:** 140020

Pkg. 100

**B140025** Bushing

**Replacing:** 2000301026
**ID** 19.11, **OD** 23.08, **Length** 9.80
**Alternative no.:** 140025

Pkg. 100

**B140026** Bushing

**Replacing:** 2000301045, 2000301041
**Servicing:** 0001368082, 0001368311, 0001368313
**ID** 19.10, **OD** 23.10, **Length** 13.00
**Alternative no.:** 140026

Pkg. 100

**B140027** Bushing

**Replacing:** 1000301034, 1000301022
**Servicing:** 0001314047
**ID** 17.62, **OD** 21.63, **Length** 9.42
**Alternative no.:** 140027

Pkg. 100

**B140028** Bushing

**Replacing:** 2000301022
**ID** 11.10, **OD** 12.60, **Length** 10.50
**Alternative no.:** 140028

Pkg. 100

**B140029** Bushing

**Replacing:** 1000301077, 1000301053, 1000301026
**ID** 12.10, **OD** 13.60, **Length** 13.50
**Alternative no.:** 140029



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Pkg. 100

## B140030 Bushing

**Replacing:** 2000301020, 1000301112, 1000301088, 1000301082, 1000301066, 1000301009
**Servicing:** 0001147404, 1006209570
**ID** 12.13, **OD** 13.62, **Length** 11.50
**Alternative no.:** 140030

Pkg. 100

## B140031 Bushing

**Replacing:** 2000301024
**ID** 14.30, **OD** 16.00, **Length** 13.50
**Alternative no.:** 140031

Pkg. 100

## B140033 Bushing

**Replacing:** 2000301031, 1000301019
**ID** 14.30, **OD** 16.00, **Length** 11.50
**Alternative no.:** 140033

Pkg. 100

## B140035 Bushing

**Replacing:** 1000301023
**ID** 14.36, **OD** 16.02, **Length** 10.00
**Alternative no.:** 140035

Pkg. 100

## B140043 Bushing

**Replacing:** 1000301063
**ID** 12.10, **OD** 15.05, **Length** 15.00
**Alternative no.:** 140043

Pkg. 100

## B140111 Bushing

**Replacing:** 2000301016
**ID** 22.14, **OD** 28.07, **Length** 11.20
**Alternative no.:** 140111

Pkg. 100

## B140111U Bushing

**Replacing:** B140111U
**Servicing:** 0001416079
**Alternative no.:** 140111

Pkg. 100

## B140140 Bushing

**Replacing:** 2000301004
**ID** 16.67, **OD** 19.60, **Length** 19.00
**Alternative no.:** 140140

Pkg. 100

## B140151 Bushing

**Replacing:** 2000301011
**ID** 19.12, **OD** 25.10, **Length** 12.80
**Alternative no.:** 140151

Pkg. 100

## B140203 Bushing

**Replacing:** 2000301037
**ID** 14.08, **OD** 20.06, **Length** 16.90
**Alternative no.:** 140203

Pkg. 100

## B140204 Bushing

**Replacing:** 9001140347
**ID** 10.05, **OD** 16.55, **Length** 11.50
**Alternative no.:** 140204

Pkg. 100

## B140208 Bushing

**Replacing:** 2000301056, 1000301056
**Servicing:** 0001106014, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107091, 0001108196, 0001108202, 0001108222
**ID** 10.11, **OD** 14.04, **Length** 9.90
**Alternative no.:** 140208



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Pkg. 100

## B140221 Bushing

**Replacing:** B140221
**ID** 16.09, **OD** 18.00, **Length** 22.00
**Alternative no.:** 140221

Pkg. 100

## B140248 Bushing

**Replacing:** 1000301061
**ID** 10.03, **OD** 16.55, **Length** 10.35
**Alternative no.:** 140248

Pkg. 100

## B140249 Bushing

**Replacing:** 1000301076, 1000301054
**Servicing:** 0001107076, 0001109315, 0001112017, 0001120411, 0001121023, 0001124020, 0001124021, 0001125009, 0001125053, 0001125054
**ID** 8.10, **OD** 11.12, **Length** 8.00
**Alternative no.:** 140249

Pkg. 100

## B140250 Bushing

**Replacing:** B140250
**ID** 8.09, **OD** 11.12, **Length** 10.00
**Alternative no.:** 140250

Pkg. 100

## B140251 Bushing

**Replacing:** 1000301074, 1000301055
**ID** 18.00, **OD** 22.10, **Length** 8.00
**Alternative no.:** 140251

Pkg. 100

## B140252 Bushing

**Replacing:** 1000301075, 1000301068
**Servicing:** 0001107076, 0001109315, 0001120411, 0001121023, 0001124020, 0001124021, 0001125009, 0001125053, 0001125054, 0001147404
**ID** 18.03, **OD** 22.10, **Length** 6.00
**Alternative no.:** 140252

Pkg. 100

## B140261 Bushing

**Replacing:** 1000301003
**ID** 14.36, **OD** 16.00, **Length** 18.00
**Alternative no.:** 140261

Pkg. 100

## B140319 Bushing

**Replacing:** 1000301083
**Servicing:** 0001106014, 0001106019, 0001106023, 0001107402, 0001107423, 0001107424, 0001107425, 0001107439, 0001108402
**ID** 10.00, **OD** 14.00, **Length** 12.00
**Alternative no.:** 140319

Pkg. 100

## B140423 Bushing

**Replacing:** 140423
**Servicing:** F000AL0321
**ID** 12.55, **OD** 16.50, **Length** 10.60
**Alternative no.:** 140423

Pkg. 100

## B140500 Bushing

**Replacing:** 2000301023, 1000301008
**ID** 12.11, **OD** 14.10, **Length** 12.00
**Alternative no.:** 140500

Pkg. 100

## B140563 Bushing

**Replacing:** 1000322005
**ID** 10.07, **OD/collar** 19.00, **OD** 16.55, **Length** 14.60, **Height/collar** 1.60
**Alternative no.:** 140563

Pkg. 100

## B140645 Bushing

**Replacing:** 1000301010
**ID** 12.63, **OD** 14.10, **Length** 10.50
**Alternative no.:** 140645

Pkg. 100

**B140782** Bushing
**Replacing:** 140782
**Servicing:** 1006209570
**ID** 12.13, **OD** 13.62, **Length** 20.00
**Alternative no.:** 140782

Pkg. 100

**B140853** Bushing
**Replacing:** 1000301032
**ID** 11.09, **OD** 12.60, **Length** 11.50
**Alternative no.:** 140853

Pkg. 100

**B140854** Bushing
**Replacing:** 1000301106, 1000301031
**ID** 12.10, **OD** 13.57, **Length** 11.50
**Alternative no.:** 140854

Pkg. 100

**B140856** Bushing
**Replacing:** 1000301062
**ID** 12.57, **OD** 16.55, **Length** 10.00
**Alternative no.:** 140856

Pkg. 100

**B140858** Bushing
**Replacing:** 2000301040
**ID** 12.10, **OD** 14.10, **Length** 12.10
**Alternative no.:** 140858

Pkg. 100

**B140859** Bushing
**Replacing:** 2000301049
**ID** 19.13, **OD** 23.05, **Length** 13.20
**Alternative no.:** 140859

Pkg. 100

**B140866** Bushing
**Replacing:** 2000301006
**ID** 14.36, **OD** 16.02, **Length** 23.50
**Alternative no.:** 140866

Pkg. 100

**B140867** Bushing
**Replacing:** 2000301044
**ID** 14.34, **OD** 16.04, **Length** 20.39
**Alternative no.:** 140867

Pkg. 100

**B140929** Bushing
**Replacing:** 1000301072
**ID** 11.03, **OD** 13.54, **Length** 9.00
**Alternative no.:** 140929

## Bearings

### Ball Bearings

**140649** **FAG** 16009 Ball Bearing
**Replacing:** 2000900001, 1900900206
**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019
**ID** 45.00, **OD** 75.00, **Height** 10.00

Pkg. 10

**142005** 6805-2RS Ball Bearing
**Replacing:** 6033AC5145
**Servicing:** 0001241003, 0001241007, 0001241014, 0001241015
**ID** 25.00, **OD** 37.00, **Height** 7.00

**142055** 5★ F-227970.1 Ball Bearing
**Manufacturer:** Bosch
**Replacing:** 6033AC0294
**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013
**ID** 20.00, **OD** 58.00, **Height** 26.00



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#Available while stock last, * Program development.

**142062** 6205DW P6-2RS/C3 Ball Bearing

**ID** 24.94, **OD** 52.00, **Height** 15.00,
**Lock ring** w/o, **Oil seals** w/o

**142064** 6905DWP6 2RS-C3 Ball Bearing

**ID** 24.95, **OD** 42.00, **Height** 8.97,
**Lock ring** w/o, **Oil seals** w/o
*w/ 2 internal grooves.*

## Needle Bearings

Pkg. 10

**140197** 5★ Needle Bearing
**Replacing:** 2000910009, 2000910002
**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025
**ID** 18.00, **OD** 24.00, **Height** 16.00

Pkg. 10

**140198** 5★ Needle Bearing
**Replacing:** 2000910005
**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025
**ID** 34.00, **OD** 48.00, **Height** 15.00

Pkg. 10

**140242** 5★ Needle Bearing
**Replacing:** 9001140384
**Servicing:** PMGR SERIES, M78, M79, 00010DB98E, 0001107037, 0001107048, 0001107056, 0001107100, 0001107101, 0001107108, 0001107112
**ID** 12.00, **OD** 16.00, **Height** 10.00

Pkg. 10

**140375** 5★ Needle Bearing
**Replacing:** 9003330902
**Servicing:** 9000331201, 9000331203
**ID** 18.00, **OD** 24.00, **Height** 12.00

Pkg. 5

**140468** 5★ Needle Bearing
**Replacing:** 9003330906
**Servicing:** 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017, 0001231029, 0001231030
**ID** 8.00, **OD** 12.00, **Height** 10.00

Pkg. 10

**140482** 5★ Needle Bearing
**Replacing:** 1000917003
**Servicing:** 0001106023, 0001106024, 0001107030, 0001107032, 0001107059, 0001107064, 0001107075, 0001107078, 0001107079, 0001107080
**ID** 10.00, **OD** 14.00, **Height** 10.00

Pkg. 10

**140494** 5★ Needle Bearing
**Replacing:** 6033AC0093
**Servicing:** 0001223003, 0001223007, 0001223024
**ID** 12.00, **OD** 18.00, **Height** 12.00

Pkg. 5

**140617** 5★ Needle Bearing
**Replacing:** 9001140359, 140617
**Servicing:** 0001107072, 0001109001, 0001109002, 0001110003, 0001110005, 0001110017, 0001110025, 0001110026, 0001110042, 0001110055
**ID** 5.00, **OD** 9.00, **Height** 8.84

Pkg. 5

**140619** 5★ Needle Bearing
**Servicing:** 0001110001, 0001110002, 0001110007, 0001110008, 0001110009, 0001110010, 0001110011, 0001110012, 0001110013, 0001110014
**ID** 6.00, **OD** 10.00, **Height** 9.00

Pkg. 10

**140620** 5★ Needle Bearing
**Replacing:** 1000917001
**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107003
**ID** 6.00, **OD** 10.00, **Height** 8.00,
**Lock ring** w/o, **Oil seals** w/o,
**Teflon ring** w/o



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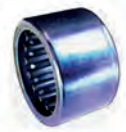
Pkg. 5



## 140717 5★ Needle Bearing

**Replacing:** 2000910004

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510004, 0001510005, 0001510006, 0001510008, 0001510009, 0001510010, 0001510011

**ID** 19.05, **OD** 25.05, **Height** 15.88

Pkg. 5

## 140733 5★ Needle Bearing

**Servicing:** 0001420001, 0001420012

**ID** 22.00, **OD** 28.00, **Height** 20.00

Pkg. 10

## 140807 5★ Needle Bearing

**Replacing:** 1000917004

**Servicing:** 0001106403, 0001106404, 0001106409, 0001106410, 0001107010, 0001107011, 0001107019, 0001107027, 0001107028, 0001107029

**ID** 10.00, **OD** 14.00, **Height** 14.00

*Closed end.*

Pkg. 5

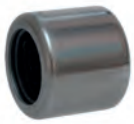
## 140903 5★ Needle Bearing

**Replacing:** 9003330901

**Servicing:** 9000331201

**ID** 10.00, **OD** 17.00, **Height** 12.00

Pkg. 10



## 140904 5★ Needle Bearing

**Replacing:** 9003330903, 6033AC0105

**Servicing:** 0001218157, 0001218757, 0001223001, 0001223009, 0001223010, 0001223014, 0001223021, 0001230002, 0001230003, 0001230014

**ID** 12.00, **OD** 18.00, **Height** 16.00

Pkg. 5

## 140935 5★ Needle Bearing

**Replacing:** 1000917006

**Servicing:** 0001107031, 0001107032, 0001107049, 0001107415, 0001107429, 0001107431, 0001107432, 0001107437, 0001108444, 6004AA0003

**ID** 9.00, **OD** 13.00, **Height** 10.00

## 140946 Needle Bearing Kit

**Replacing:** 9001453666

**Servicing:** 0001371001

Pkg. 5

## 140971 5★ Needle Bearing

**Replacing:** 2000910013

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**ID** 15.88, **OD** 23.88, **Height** 21.88

*Closed end.*

Pkg. 5

## 140972 5★ Needle Bearing

**Replacing:** 9000910012, 2000910012

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

**ID** 22.00, **OD** 28.00, **Height** 16.00

Pkg. 5

## 141007 5★ Needle Bearing

**Manufacturer:** Bosch

**Replacing:** 2000910015

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0AA137200B, 0AA137200F

**ID** 16.00, **OD** 23.85, **Height** 18.95

*Double sealed.*

Pkg. 5

## 141015 5★ Needle Bearing

**Replacing:** 2000910011

**Servicing:** 0001370001, 0001370002, 0001371001, 9000453029, 9000453064, 9000453065, 9000453066, 9000453067, 9000453068, B001850025

**ID** 15.88, **OD** 20.64, **Height** 19.05

Pkg. 5

## 141040 5★ Needle Bearing

**Replacing:** 6033AC0352

**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013

**ID** 30.00, **OD** 37.00, **Height** 16.00



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Pkg. 5

**141054** 5★ Needle Bearing
**Manufacturer:** Bosch
**Replacing:** 1000917005, 1000917000
**Servicing:** 0001105205, 0001107070, 0001107071, 0001108113, 0001108114, 0001108133, 0001108174, 0001108175, 0001108200, 0001108201
**ID** 12.00, **OD** 16.00, **Height** 14.00

Pkg. 5

**141084** 5★ Needle Bearing
**Replacing:** 1000917007
**Servicing:** 0001121022, 0001121023, 0001124020, 0001124021, 0001125016, 0001125017, 0001125018, 0001125019, 0001125046, 0001125047
**ID** 30.50, **OD** 37.00, **Height** 15.90

Pkg. 10

**141256** 5★ Needle Bearing
**Replacing:** 1000917008
**Servicing:** 0001107404, 0001107405, 0001107410, 0001107418, 0001107429, 0001107435, 0001107437, 0001107441, 0001107501, 0001107502
**ID** 5.50, **OD** 8.50, **Height** 6.85

Pkg. 10

**142001** 5★ Needle Bearing
**Replacing:** 1000917012, 1000917010, 1000917009
**Servicing:** 0001120400, 0001120401, 0001120402, 0001120403, 0001120404, 0001120405, 0001120406, 0001120407, 0001120408, 0001120409
**ID** 28.10, **OD** 35.20, **Height** 14.60

Pkg. 10

**142019** 5★ Needle Bearing
**Replacing:** HK2512, 6033AC5059
**Servicing:** 0001241001, 0001241003, 0001241007, 0001241014, 0001241015, 6033AC5060
**ID** 25.00, **OD** 32.00, **Height** 12.00

## Roller Bearings

**140650** Roller Bearing
**Replacing:** 2000914012
**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019
**ID** 25.00, **OD** 62.00, **Height** 17.00, **Rolls** 10

## Repair Kits

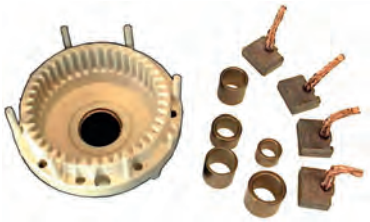
**130968** Repair Kit
**Replacing:** 2007010007
**Servicing:** 0001354089, 0001358020, 0001358051, 0001358200, 0001358201, 0001358202, 0001359004, 0001359008, 0001359045, 0001359049

**130969** 5★ Repair Kit
**Manufacturer:** Bosch
**Replacing:** 2007011040
**Servicing:** 0001359072, 0001360004, 0001360005, 0001360010, 0001360012, 0001360014, 0001360017, 0001360019, 0001360020, 0001360022

**130970** 5★ Terminal Kit
**Manufacturer:** Bosch
**Replacing:** 2007011533, 2007011042, 2007011041, 2007001533
**Servicing:** 0001358020, 0001358046, 0001358047, 0001358049, 0001358051, 0001358200, 0001358201, 0001358202, 0001359002, 0001359003

**133308** Terminal Kit
**Replacing:** 2004449086, 2004449002
**Servicing:** 0001410037, 0001410068, 0001411013, 0001414011, 0001416001, 0001416006, 0001416014, 0001416018, 0001416028, 0001416031
*Terminal 30: M10. Terminal 31: M10 insulated.*

**133309**# Repair Kit
**Servicing:** 0001108 series



**133310** Repair Kit
**Servicing:** 0001109, 0001110 series

**133311** Repair Kit
**Servicing:** 0001218 series

**133312** Repair Kit

**Servicing:** 0001354, 0001363 series

**133313** Repair Kit

**Servicing:** 0001360, 0001364 series, 9000143501

**133314** Repair Kit

**Servicing:** 0001358, 0001359, 0001365 series

**133316** Repair Kit

**Servicing:** 0001362, 0003167 series

**133317** Repair Kit

**Servicing:** 0001367 series

**133318** Repair Kit

**Servicing:** 0001368 series

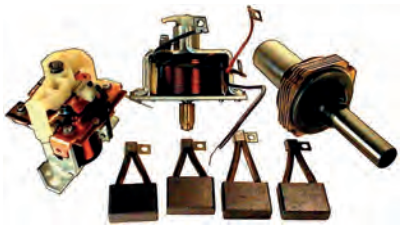
**133540** Repair Kit

*For FKB-24 V insulated. includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130305. Brush set: HC-CARGO BSX1314.*

**134009** Repair Kit

**Servicing:** 0001415016

*For FKB-24 V earthed. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.*



**134010** Repair Kit

**Servicing:** 0001415016

*For FKB-24 V earthed. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Brush set: HC-CARGO BSX1314.*

**134050**# Repair Kit

**Servicing:** 1006200017, 1006200900

**134053**# Repair Kit

**Servicing:** 1006200019, 1006200904

**134606** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 2007011003

**Servicing:** 0001401041, 0001401044, 0001401046, 0001401049, 0001401050, 0001401052, 0001401057, 0001401060, 0001401066, 0001401067

**134607** Repair Kit

**Replacing:** 2007011029

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029, 0001410032

*Terminal 50. New type: HC-CARGO 139071.*

**135205** Repair Kit

*For FKB-24 V. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130304. Repair set: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 135303 Repair Kit

*For FKB-24 V earthed. Includes: Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1314.*

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## 136053 Terminal Kit

**Replacing:** 2007011046

**Servicing:** 0001364100, 0001364101, 0001364102, 0001364103, 0001364104, 0001364105, 0001364106, 0001364108, 0001364200, 0001364201

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## 136282 Repair Kit

*For FKB-24 V earthed. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1484.*

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## 136695 Terminal Kit

**Replacing:** 2007011057

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

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## 136856 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010079

**Servicing:** 0001106403, 0001106404, 0001106407, 0001106409, 0001106410, 0001107448, 0001107449, 0001107532, 0001107533, 0001120400

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## 136914 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010040

**Servicing:** 0001108019, 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010

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## 136915 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010081, 1007010039

**Servicing:** 0001090112, 0001090115, 0001090137, 0001090139, 0001090141, 0001090144, 0001105205, 0001106001, 0001106002, 0001106004

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## 136970 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010070

**Servicing:** 0001106011, 0001106014, 0001106015, 0001106018, 0001106019, 0001106020, 0001107059, 0001107077, 0001107082, 0001108022

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## 137001 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 2007011069

**Servicing:** 0001410029, 0001410062, 0001413017, 0001414011, 0001415007, 0001416001, 0001416002, 0001416003, 0001416004, 0001416005

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## 137016 Repair Kit

**Replacing:** 1987010000

**Servicing:** STARTER FKB, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410037, 0001410041, 0001410044

**Alternative no.:** 333731 5★

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## 137173 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010004

**Servicing:** 0001204102, 0001204103, 0001207001, 0001207003, 0001207005, 0001207009, 0001207015, 0001207016, 0001207017, 0001207018

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## 137270 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010046

**Servicing:** 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107410, 0001107411, 0001107417

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#Available while stock last, * Program development.

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## 137883 Sealing Kit

**Replacing:** 2007010053

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

## 138412 Terminal Kit

**Servicing:** 0001416010, 0001417037

*Terminal 30: M12. Terminal 31: M10 insulated.*

## 138927 Terminal Kit

**Replacing:** 2004632026

**Servicing:** 0001410015, 0001410016, 0001410024, 0001410041, 0001410044, 0001410046, 0001410053, 0001410063, 0001410067, 0001410088

*Terminal 30: M10. Terminal 31: M10.*

## 139015 5★ Repair Kit

**Manufacturer:** Bosch

**Servicing:** 0001107067, 0001107076, 0001108166, 0001108167, 0001108173, 0001108180, 0001108182, 0001108183, 0001108186, 0001115002

## 139071 Terminal Kit

**Replacing:** 2007011070

**Servicing:** 0001108107, 0001410024, 0001410029, 0001410062, 0001410088, 0001411009, 0001411023, 0001413017, 0001414011, 0001415007

*Terminal 50. New type.*

## 139152 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 2007010032, 2007010020

**Servicing:** 0001354080, 0001354082, 0001354088, 0001354090, 0001354091, 0001354092, 0001354093, 0001354094, 0001354095, 0001354099

## 139292 Terminal Kit

**Servicing:** 0001416002, 0001416038, 0001416040, 0001416043, 0001416062, 0001417007, 0001417036

*Terminal 30: M12. Terminal 31: M10. Grounded.*

## 139576 Repair Kit

12 **V**

*Contains: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 132803, 133487. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX1304.*

## 139699 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 9003337010, 2002033007

**Servicing:** 0001230001, 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010

**ID** 10.10, **Length** 31.30

## 230019 Terminal Kit

**Servicing:** 0001417065, 0001417069

*Terminal 30: M12. Terminal 31: M12 insulated. New type.*

## 230021 Terminal Kit

**Servicing:** 0001416079

*Terminal 30: M10. Terminal 31: M10 grounded. New type.*

## 230022 Terminal Kit

*Terminal 30: M10. Terminal 31: M10 insulated. New type.*



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#Available while stock last, * Program development.

**230023** Terminal Kit

*Terminal 30: M12. Terminal 31: M10 grounded. New type.*

**230024** Terminal Kit

*Terminal 30: M12. Terminal 31: M10 insulated. New type.*

**230329** Repair Kit

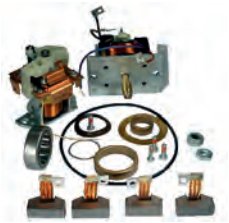
24 **V**

*For FKB-24 V insulated. Includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130283, 130305. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.*

**230330** Repair Kit

*For FKB-24 V earthed. includes: Clutch: HC-CARGO 130317. Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.*

**Alternative no.:** 333733



**230331** Repair Kit

*For FKB-24 V earthed. Includes: Solenoid: HC-CARGO 130304, 133554. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.*

**230846** Terminal Kit

**Replacing:** 2007011071

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

**231086** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 2007010133

**Servicing:** 0001359021, 0001359038, 0001359083, 0001360035, 0001362039, 0001362060, 0001362064, 0001362069, 0001362070, 0001362073

**231645** Terminal Kit

**Replacing:** 2007011072

**Servicing:** 0001410037, 0001416062, 0001416067, 0001417075, 0001417076, 0001418016

*Terminal 50.*

**231649** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 6033AD0047

**Servicing:** 0001223001, 0001223004, 0001223005, 0001223006, 0001223008, 0001223009, 0001223011, 0001223012, 0001223013, 0001223014

**231651** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 6033AD0064

**Servicing:** 0001223002, 0001223003, 0001223007, 0001223016, 0001223021, 0001223024, 0001230006, 0001230014

**234040** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 2007010011

**Servicing:** 0001354016, 0001354018, 0001354029, 0001354031, 0001354038, 0001354055, 0001354077, 0001354085, 0001354086, EJD1

**234657** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 9001337095

**Servicing:** 0001218172, 0001218173

**235147** 5★ Repair Kit

**Manufacturer:** Bosch

**Replacing:** 1007010093

**Servicing:** 0001106405, 0001106406, 0001107401, 0001107402, 0001107403, 0001107404, 0001107405, 0001107406, 0001107407, 0001107408

## 239112 5★ Repair Kit

**Manufacturer:** Bosch
**Replacing:** 6033AD6014
**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013

## 333490 5★ Repair Kit

**Manufacturer:** Bosch
**Replacing:** F00M147855, F00M147802
**Servicing:** 0124555002, 0124555019, 0124555022, 0124555023, 0124555025, 0124555028, 0124555052, 0124555069, 0124555071, 0124555072
**ID** 35.00, **OD** 38.00, **Height** 51.00
**Alternative no.:** 333609

## 333733 Repair Kit

*For FKB-24 V earthed. includes: Clutch: HC-CARGO 130317. Solenoid 5*: HC-CARGO 333154, 333155. Repair kit: HC-CARGO 137016. Brush set: HC-CARGO BSX172-1734.*
**Alternative no.:** 230330

## 333752 5★ Repair Kit

**Manufacturer:** Bosch
**Replacing:** 2007010139
**Servicing:** 0001340501, 0001340502, 0001340503, 000134BB01, 000134BH01

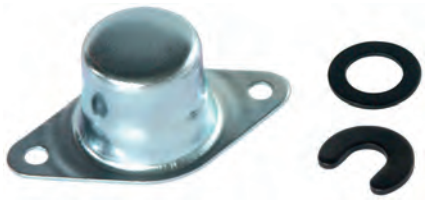
# Sundry Parts

## Covers

Pkg. 5

## 134683 5★ Cover

**Replacing:** 2000556057, 2000556056
**Servicing:** 0001362005, 0001362006, 0001362008, 0001362034, 0001362035, 0001362036, 0001362038, 0001362039, 0001362040, 0001362041
**OD** 40.00, **Height** 15.55
*Bosch.*



## 137792 Cover

**Replacing:** 1005505012, 1000520033
**Servicing:** 0001108003, 0001108005, 0001108006, 0001108074, 0001108112, 0001108125, 0001108128, 0001108130, 0001110040, 0001110052
**OD** 30.00, **Height** 21.00, **Rubber** w/o

Pkg. 10

## 138856 5★ Cover

**Replacing:** 1000505010
**Servicing:** 0001204102, 0001207001, 0001207003, 0001207005, 0001207009, 0001207015, 0001207016, 0001207017, 0001207018, 0001207019
**OD** 32.00, **Height** 20.00
*Bosch.*

Pkg. 10

## 139011 Cover

**Replacing:** F000AL1074, 1000520075, 1000520070, 1000520068, 1000520049, 1000520045, 1000520034
**Servicing:** 00010DB98E, 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019
**Height** 19.50

Pkg. 10

## 139359 5★ Cover

**Replacing:** 2000556090
**Servicing:** 0001362092, 0001362096, 0001362601, 0001363120, 0001363122, 0001363128, 0001363130, 0001368001, 0001368007, 0001368035
**OD** 34.60, **Height** 14.30
*Bosch.*

## 231189 Cover

**Replacing:** 2000505001
**Servicing:** 0001157001, 0001157002, 0001157003, 0001157004, 0001157005, 0001157006, 0001157008, 0001157011, 0001157012, 0001157015
**OD** 29.90, **Height** 20.00

## 231278 5★ Cover

**Manufacturer:** Bosch
**Replacing:** 2000034001, 2000034000
**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

Pkg. 5

**234335** Cover

**Servicing:** 0001231009, 0001231014

**ID** 20.50, **OD** 23.60, **Height** 14.20

Pkg. 5

**235196** 5★ Cover

**Replacing:** 1000520074, 1000520066

**Servicing:** 0001106016, 0001106403, 0001106404, 0001106405, 0001106406, 0001107009, 0001107015, 0001107039, 0001107044, 0001107063

## Oil Seals

Pkg. 10

**131448** Oil Seal

**Replacing:** 2000283013

**Servicing:** 0001410024, 0001410032, 0001410035, 0001410043, 0001410046, 0001410047, 0001410049, 0001410052, 0001410058, 0001410065

**ID** 33.00, **OD** 45.00, **Height** 7.00

Pkg. 10

**131449** Oil Seal

**Manufacturer:** Bosch

**Replacing:** 2000212000

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**ID** 31.90, **OD** 44.35, **Height** 2.65

*Spring: HC-CARGO 131450.*

Pkg. 10

**132382** Oil Seal

**Servicing:** 40MT, 42MT, 50MT

**ID** 19.50, **OD** 34.90, **Height** 9.50

Pkg. 5

**135372** Oil Seal

**Replacing:** 2000283015, 2000283012

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510005, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019

**ID** 35.00, **OD** 47.00, **Height** 7.00

Pkg. 5

**135575** Oil Seal

**Replacing:** 2916740049

**Servicing:** 0001362321, 0001362331, 0001363128, 0001363130, 0001367036, 0001367038, 0001367046, 0001367051, 0001367054, 0001367057

**ID** 19.00, **OD** 27.00, **Height** 6.00

Pkg. 5

**135579** Oil Seal

**Replacing:** 2000283016

**Servicing:** 0001359023, 0001359031, 0001359035, 0001359050, 0001359051, 0001359054, 0001359059, 0001359066, 0001359089, 0001359092

**ID** 19.00, **OD** 32.00, **Height** 7.00

Pkg. 5

**136665** Oil Seal

**Servicing:** 0001420…, 0001420001, 0001420003, 0001420004, 0001420009, 0001420010, 0001420011, 0001420012, 0001420013, 0001420015

**ID** 22.00, **OD** 35.00, **Height** 7.00

Pkg. 10

**136791** Oil Seal

**Replacing:** 1000221001

**Servicing:** 0001212206, 0001212207, 0001212208, 0001212209, 0001212210, 0001212211, 0001212212, 0001212213, 0001212214, 0001212400

**ID** 27.00, **OD** 40.00, **Height** 3.80

*Spring: HC-CARGO 135397.*

Pkg. 10

**137177** Oil Seal

**Replacing:** 1000221000, 0124035480

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212200, 0001212202, 0001212204, 0001212208

**ID** 25.00, **OD** 37.00, **Height** 3.55

Pkg. 10

**230448** Oil Seal

**Replacing:** 9001453583

**Servicing:** 0001370001, 0001370002, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371012, 0001371014

**ID** 20.09, **OD** 32.00, **Height** 6.30



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

**231343** 5★ Oil Seal
**Manufacturer:** Bosch
**Replacing:** 1000500094
**Servicing:** 0001121022, 0001121023, 0001124020, 0001124021, 0001125016, 0001125017, 0001125018, 0001125019, 0001125046, 0001125047
**ID** 30.00, **OD** 40.00, **Height** 2.70

Pkg. 10

**233545** 5★ Oil Seal
**Manufacturer:** Bosch
**Replacing:** 1000500092, 1000500091
**Servicing:** 0001121001, 0001121002, 0001121003, 0001121006, 0001121007, 0001121008, 0001121009, 0001121010, 0001121011, 0001121016
**ID** 28.00, **OD** 38.00, **Height** 2.50

**236644** 5★ Oil Seal
**Manufacturer:** Bosch
**Replacing:** 6033AC0285
**Servicing:** 0001230002, 0001230014, 0001231019, 0001231028, 0001231040, 6033AD3169, 6033AD4049
**ID** 54.10, **OD** 72.25, **Height** 4.10

Pkg. 10

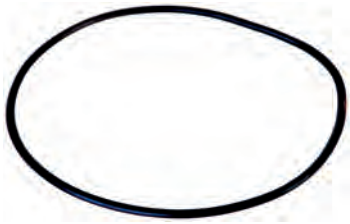
**237766** Oil Seal
**Replacing:** 6033AC5028, 237766
**Servicing:** 0001241001, 0001241003, 0001241004, 0001241005, 0001241006, 0001241007, 0001241014, 0001241015, 0001241019, 0001241020
**ID** 30.00, **OD** 40.00, **Height** 7.00

Pkg. 10

**239111** Oil Seal
**Replacing:** 6033AC0424
**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013
**ID** 26.00, **OD** 42.00, **Height** 7.00

## O-rings

Pkg. 10



**131444** 5★ O-ring
**Replacing:** 2000210083, 2000210014
**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402018, 0001402050
**ID** 142.00, **Thickness** 3.00, **Material** Rubber
*Bosch.*

Pkg. 10

**134612** O-ring
**Servicing:** 0001231004, 0001231012, 0001359111, 0001362039, 0001362092, 0001367010, 0001367039, 0001367070, 0001368070, 0001368304
**ID** 35.00, **Thickness** 2.00

Pkg. 10

**134613** 5★ O-ring
**Replacing:** 2000210079
**Servicing:** 0001358020, 0001358047, 0001358049, 0001358051, 0001358200, 0001358201, 0001358202, 0001359016, 0001359019, 0001359038
**Thickness** 3.00
*Bosch.*

Pkg. 10

**134776** O-ring
**Servicing:** 0001420010, 0001420011, 0001420015, 0001420024
**ID** 12.00, **Thickness** 3.00

Pkg. 10

**134965** O-ring
**Replacing:** 1480210075
**Servicing:** 0001330001, 0001330003, 0001330004, 0001330005, 0001330006, 0001330007, 0001330008, 0001330011, 0001330012, 0001330013
**ID** 100.00, **Thickness** 2.00

Pkg. 10

**136340** O-ring
**Replacing:** 2000210028
**Servicing:** 0001358202, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359014, 0001359016, 0001359020, 0001359025
**ID** 105.00, **Thickness** 4.00

Pkg. 5

**136690** O-ring
**Servicing:** 0001415007, 0001416004, 0001416012, 0001416074, 0001420001, 0001420010, 0001420011, 0001420012, 0001420015, 0001420024
**ID** 83.00, **Thickness** 3.00
*For FKB.*



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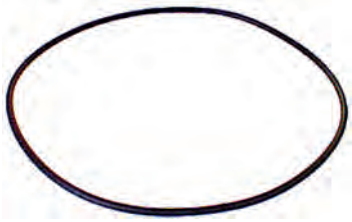
#Available while stock last, * Program development.

Pkg. 5



## 136691 O-ring

**Servicing:** 0001420…, 0001359021, 0001420001, 0001420010, 0001420011, 0001420012, 0001420015, 0001420024

**ID** 123.00, **Thickness** 3.00

Pkg. 10

## 138750 O-ring

**Servicing:** 0001360023, 0001360036

**ID** 6.00, **Thickness** 3.00, **Material** Rubber

Pkg. 10

## 230447 5★ O-ring

**Replacing:** 2000210095

**Servicing:** 0001370002, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371012, 0001371014, 0001371017

**ID** 105.00, **Thickness** 2.00

*Bosch.*

Pkg. 10

## 230634 5★ O-ring

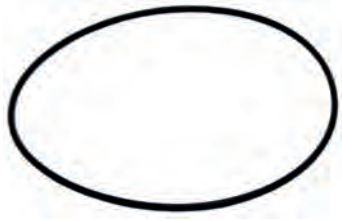
**Replacing:** 1900210142

**Servicing:** 0001370002, 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010

**ID** 40.00, **Thickness** 2.50

*Bosch.*

Pkg. 5



## 237603 O-ring

**Replacing:** 9003330205

**Servicing:** 0001230001, 0001230013, 0001230027, 0001231001, 0001231002, 0001231004, 0001231006, 0001231014, 0001231018, 0001231033

**Thickness** 2.00

### Rods

## 131443 Rod

**Replacing:** 2007010045, 2003050075, 2003050058, 2003050056, 2003050052

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410035, 0001410037, 0001410041

**OD** 9.66, **Length** 325.00

## 132802 Rod

**Replacing:** 2003050076

**Servicing:** 0001410029, 0001410062, 0001413001, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009

**Length** 290.00

## 132843 Rod

**Replacing:** 2003050040

**Servicing:** 0001416005, 0001416070, 0001417001, 0001417002, 0001417005, 0001417006, 0001417007, 0001417008, 0001417012, 0001417013

**Length** 310.00

## 134441 Rod

**Replacing:** 2007010048, 2003050077

**Servicing:** 0001510001, 0001510002, 0001510003, 0001510008, 0001510009, 0001510010, 0001510017, 0001510018, 0001510019, 0001510020

**Length** 355.50

*Nut: HC-CARGO 233930. Lock washer: HC-CARGO 233929.*

### Thru Bolts

Pkg. 10

## 134617 Through Bolt

**Replacing:** 1003527149, 1003527132

**Servicing:** 0001108166, 0001108167, 0001110003, 0001110009, 0001110010, 0001110012, 0001110013, 0001110016, 0001110019, 0001110022

**Total length** 180.00, **Thread size** M5/M6

Pkg. 5

## 135552 Through Bolt

**Replacing:** 2003526043, 2003526006

**Servicing:** 0001367001, 0001367002, 0001367004, 0001367005, 0001367006, 0001367007, 0001367008, 0001367009, 0001367010, 0001367011

**Total length** 210.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 10

## 135782 Through Bolt

**Replacing:** 1003527135, 1003527103, 1003421003

**Servicing:** 0001108018, 0001108021, 0001108028, 0001108029, 0001108038, 0001108039, 0001108042, 0001108047, 0001108048, 0001108054

**Total length** 153.00, **Thread length** 24.00, **Thread size** M5, **Thread size/rear** M5

Pkg. 10

## 135859 Through Bolt

**Replacing:** 2003410065

**Servicing:** 0001358051, 0001358200, 0001358201, 0001358202, 0001359002, 0001359003, 0001359008, 0001359010, 0001359012, 0001359014

**Total length** 195.00, **Thread size** M5, **Thread size/rear** M6

Pkg. 10

## 135982 Through Bolt

**Replacing:** 1003527105

**Servicing:** 0001107027, 0001107028, 0001107427, 0001107428, 0001112005, 0001112006, 0001112013, 0001112014, 0001112025, 0001208516

**Total length** 137.00, **Length/rear collar** 121.05, **Thread length** 19.06, **Thread size** M5, **Thread size/rear** M5

Pkg. 2

## 137179 Through Bolt

**Replacing:** 9001333518, 9001333517

**Servicing:** 0001218011, 0001218012, 0001218018, 0001218024, 0001218027, 0001218028, 0001218103, 0001218113, 0001218114, 0001218115

**Total length** 180.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 2

## 139991 Through Bolt

**Replacing:** 1003527151

**Servicing:** 0001107043, 0001107087, 0001108087, 0001108106, 0001108143, 0001113010, 0001113017, B001111361

**Total length** 136.00/153.00, **Thread size** M5, **Thread size/rear** M6

Pkg. 2

## 230453 Through Bolt

**Replacing:** 1003450053, 1003450028, 1003450012

**Servicing:** 0001109069, 0001109070, 0001109252, 0001109262, 0001109263, 0001109264, 0001109271, 0001109272, 0001109273, 0001109274

**Total length** 165.00, **Length/rear collar** 161.55, **Thread length** 20.35, **Thread size** M5

Pkg. 2

## 230615 Through Bolt

**Replacing:** 2003526045, 2003526032

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0001413001, 0001413003

**Total length** 215.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 2

## 230701 Through Bolt

**Replacing:** 1003450030, 1003450014

**Servicing:** 0001106011, 0001106016, 0001106020, 0001107003, 0001107004, 0001107007, 0001107008, 0001107009, 0001107010, 0001107011

**Total length** 119.55, **Length/rear collar** 115.00, **Thread length** 18.35, **Thread size** M5



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#Available while stock last, * Program development.

Pkg. 2

## 230702 Through Bolt

**Replacing:** 1003527038

**Servicing:** 0001107054, 0001107055, 0001107068, 0001107069, 0001107073, 0001107074

**Total length** 164.00, **Thread size** M5, **Thread size/rear** M5

Pkg. 2

## 230708 Through Bolt

**Replacing:** 1003450076, 1003450050, 1003450029, 1003450018

**Servicing:** 00010DB98E, 0001108156, 0001108157, 0001108162, 0001108166, 0001108167, 0001108169, 0001108171, 0001108172, 0001108173

**Total length** 150.00,
**Length/rear collar** 149.00,
**Thread length** 19.90, **Thread size** M5

Pkg. 2

## 230726 Through Bolt

**Replacing:** 9001333446, 6033AC3116, 2003415011, 2003415003

**Servicing:** 0001230001, 0001230002, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008, 0001230009, 0001230010

**Total length** 175.00,
**Length/rear collar** 170.00,
**Thread length** 25.60, **Thread size** M6

Pkg. 2

## 230730 Through Bolt

**Replacing:** 2003526044, 2003526023

**Servicing:** 0001362001, 0001362002, 0001362003, 0001362004, 0001362005, 0001362006, 0001362008, 0001362009, 0001362010, 0001362012

**Total length** 181.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 2

## 230772 Through Bolt

**Replacing:** 1003450052, 1003450042, 1003450015

**Servicing:** 0001106011, 0001106015, 0001106018, 0001106019, 0001106403, 0001106404, 0001106405, 0001106406, 0001106407, 0001106409

**Total length** 119.00,
**Length/rear collar** 118.65,
**Thread length** 19.00, **Thread size** M5

Pkg. 5

## 231018 Through Bolt

**Replacing:** 2003526008

**Servicing:** 0001413001, 0001413003, 0001413004, 0001413005, 0001413006, 0001413007, 0001413008, 0001413009, 0001413010, 0001413011

**Total length** 162.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 5

## 231019 Through Bolt

**Replacing:** 2003526015

**Servicing:** 0001411017, 0001411026, 0001416061, 0001416065, 0001417001, 0001417002, 0001417005, 0001417006, 0001417007, 0001417008

**Total length** 182.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 5

## 231020 Through Bolt

**Replacing:** 2003526018

**Servicing:** 0001411017, 0001411026, 0001416061, 0001416065, 0001417001, 0001417002, 0001417005, 0001417006, 0001417007, 0001417008

**Total length** 231.00, **Thread size** M6, **Thread size/rear** M6

Pkg. 5

## 231022 Through Bolt

**Replacing:** 9001333441, 9001333417

**Servicing:** 0001218004, 0001218005, 0001218008, 0001218012, 0001218013, 0001218016, 0001218017, 0001218018, 0001218021, 0001218022

**Total length** 160.00,
**Length/rear collar** 15.45,
**Thread length** 16.55, **Thread size** M6



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 2

## 231259[#] Through Bolt

**Replacing:** 1003450054, 1003450041, 1003450023

**Servicing:** 0001108208, 0001108209, 0001108211, 0001108212, 0001109034, 0001109204, 0001109340, 0001109341, 0001109355, 0001109356

**Total length** 160.00,
**Length/rear collar** 155.35,
**Thread length** 20.20, **Thread size** M5

Pkg. 2

## 231277 Through Bolt

**Replacing:** 2003415001

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**Total length** 204.00,
**Length/rear collar** 203.75,
**Thread length** 26.00, **Thread size** M6

Pkg. 10

## 231627 Through Bolt

**Replacing:** 2123410003

**Servicing:** 0120689519, 0120689529, 0120689536, 0120689537, 0120689544, 0120689547, 0120689554, 0120689556, 0120689560, 0120689589

**Total length** 186.10,
**Length/rear collar** 180.20,
**Thread length** 23.35, **Thread size** M6

Pkg. 10

## 231654 Through Bolt

**Replacing:** 1003527114

**Servicing:** 0001311100, 0001311103, 0001311104, 0001311108, 0001311110, 0001311111, 0001311112, 0001311113, 0001311114, 0001311125

**Total length** 149.00/166.00,
**Thread size** M6, **Thread size/rear** M6

Pkg. 2

## 231708 Through Bolt

**Replacing:** 2003526042

**Servicing:** 0001358020, 0001358047, 0001369001, 0001369005, 0001369006, 0001369007, 0001369012, 0001369014, 0001369015, 0001369016

**Total length** 175.00/192.00,
**Thread size** M6, **Thread size/rear** M6

Pkg. 10

## 234050 Through Bolt

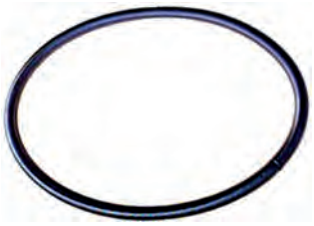
**Replacing:** 1003527158, 1003527043, 1003527036

**Servicing:** 0001107076, 0001108011, 0001108172, 0001108199, 0001108411, 0001108412, 0001109011, 0001109015, 0001109033, 0001109042

**Total length** 150.00/168.00,
**Thread size** M5, **Thread size/rear** M6

## Various

Pkg. 10



## 131450 Spring

**Replacing:** 2004650030, 2000650030

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**OD** 36.70
*Dust cover: HC-CARGO 131449.*

Pkg. 10

## 131453 Washer

**Replacing:** 2000102622, 2000102621, 2000102620

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029, 0001410035, 0001410037

**ID** 22.00, **OD** 31.95, **Thickness** 0.30, **Material** Steel

## 131454 5★ Clutch Housing

**Replacing:** 2005825077

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**Dist./mount. holes** 10.35, **OD** 39.80, **No./mount. holes** 4



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[#]Available while stock last, * Program development.

Pkg. 5

## 131841 Key

**Replacing:** 1902300090

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410019, 0001410021, 0001410022, 0001410023, 0001410024, 0001410025

**Length** 31.80, **Thickness** 4.00, **Width** 6.00

Pkg. 10

## 132203 Washer

**Replacing:** 2000101600

**Servicing:** 0001367302, 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402018

**ID** 14.20, **OD** 19.80, **Thickness** 0.50, **Material** Steel

Pkg. 10

## 132207 Fibre Washer

**Replacing:** 2000107000

**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402018, 0001402050

**ID** 17.30, **OD** 34.00, **Thickness** 1.50, **Material** Fiber

Pkg. 10

## 132208 Washer

**Replacing:** 2000108021

**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402008, 0001402018

**ID** 16.00, **OD** 24.00, **Thickness** 2.80, **Material** Fiber

Pkg. 10

## 132222# Spring

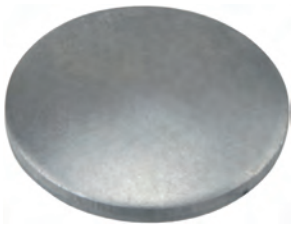
**Replacing:** 2004641000

**Servicing:** 0001359045, 0001359069, 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073

**OD** 40.35

*Dust cover: HC-CARGO 132296.*

Pkg. 10



## 132982 Plug

**Replacing:** 2916090013

**Servicing:** 0001372001, 0001372002, 0001372003, 0001372004, 0001372005, 0001372006, 0001372007, 0001372008, 0AA137200B, 0AA137200F

**OD** 26.00, **Height** 1.85

## 133603 Terminal Bolt

**Replacing:** 2003590004, 2003590003, 2001030031

**Servicing:** 0001410065, 0001410067, 0001411017, 0001411025, 0001411026, 0001411027, 0001416002, 0001416010, 0001416023, 0001416038

**Total length** 122.25, **Thread length** 34.10, **Thread size** M12

*Terminal 30.*

Pkg. 10

## 134372 Felt

Pkg. 100

## 134769 Washer

**ID** 22.30, **OD** 27.20, **Thickness** 1.60, **Material** Fiber

Pkg. 10

## 134771 Gasket

**Length** 15.70, **Thickness** 8.55, **Width** 13.65

Pkg. 10

## 134772 Bushing

**Replacing:** 1000301029

**Servicing:** 0001107066, 0001107089, 0001107411, 0001107490, 0001107491, 0001108202, 0001108204, 0001108224, 0001108234, 0001108235

**ID** 8.60, **OD** 11.00, **Length** 10.95

*D.E. bracket: HC-CARGO 136289.*

Pkg. 5

## 134958 Insulator

**Servicing:** 0001208506, 0001208510, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518, 0001208519, 0001208520



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Pkg. 5

## 134959 Insulator

**Servicing:** 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012, 0001317013, 0001317016

Pkg. 5

## 135050 Grommet

**Servicing:** 0001108143, 0001208506, 0001208513, 0001208514, 0001208515, 0001208516, 0001208517, 0001208518, 0001208519, 0001208520

Pkg. 10

## 135051 Grommet

**Servicing:** 0001107003, 0001107004, 0001107005, 0001107006, 0001107007, 0001107008, 0001107009, 0001107012, 0001107013, 0001107014

Pkg. 10

## 135052 Grommet

**Servicing:** 0001106019, 0001107014, 0001108061, 0001108123, 0001108125, 0001108197, 0001109040, 0001110001, 0001110002, 0001110003

**Dim. A** 20.00, **Dim. C** 16.55

Pkg. 10

## 135055 Grommet

**Servicing:** 0001312108, 0001312109, 0001317007, 0001317008, 0001317009, 0001317010, 0001317011, 0001317012, 0001317016, 0001317017

**Dim. A** 23.65, **Dim. B** 19.35, **Dim. D** 6.22

Pkg. 10

## 135060 Felt

**Servicing:** 0001108202, 0001108240

Pkg. 100

## 135195 Lock Washer

**Servicing:** 0001147404

**ID/housing** 8.00, **OD/housing** 15.00, **Thickness** 3.90, **Material** Steel

Pkg. 10

## 135259 Grommet

**Servicing:** 0001208172, 0001208202, 0001208203, 0001208205, 0001208211, 0001208214, 0001208223, 0001208224, 0001208229, 0001208232

**Dim. A** 10.20, **Dim. C** 25.50

Pkg. 10

## 135291 Brake Washer

**Servicing:** 0001107423, 0001107424, 0001107439, 0001107448, 0001107449, 0001107450, 0001107451, 0001107508, 0001107509, 0001107534

**ID** 12.50, **OD** 23.00, **Thickness** 1.90

Pkg. 10

## 135302 Insulator

**ID** 11.60, **OD** 17.50, **Height** 8.00

Pkg. 5

## 135397 Spring

**Replacing:** 2004650035, 1004617004

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212200, 0001212202, 0001212204, 0001212206

**OD** 29.15

*Dust cover: HC-CARGO 136791.*

Pkg. 10

## 135522 Washer

**ID** 19.50, **OD** 33.00, **Thickness** 0.50, **Material** Fiber



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#Available while stock last, * Program development.

Pkg. 10

## 135523 Washer

**ID** 19.50, **OD** 33.00, **Thickness** 1.50, **Material** Fiber

Pkg. 5

## 135576 Rubber Boot

**Replacing:** 1330503703, 1330503702

**Servicing:** 0001107049, 0001360022, 0001360023, 0001360036, 0001360037, 0001360049, 0001360052, 0001360065, 0001362039, 0001362105

**ID** 13.45, **Thickness** 27.40, **Material** Rubber

*Solenoid: HC-CARGO 131053, 131141.*

Pkg. 5

## 135580 Gasket

**Replacing:** 2000290012

**Servicing:** 0001362321, 0001362331, 0001363128, 0001363130, 0001367036, 0001367038, 0001367046, 0001367051, 0001367054, 0001367057

**Thickness** 1.20, **Material** Rubber

Pkg. 10

## 135634 Brake Washer

**Servicing:** 0001114014, 0001114020, 0001114021, 0001211228, 0001211246

**ID** 15.50, **OD** 23.00, **Thickness** 2.10

Pkg. 10

## 135637 Lock Ring

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212012, 0001212206, 0001212207, 0001212208, 0001212209, 0001212211

**OD/housing** 37.60, **Thickness** 1.50

Pkg. 10

## 135645 Screw

**Replacing:** 9001140194, 2910960285, 2003429060, 2003429057, 2003429055

**Servicing:** 0001157021, 0001218006, 0001218011, 0001218012, 0001218013, 0001218014, 0001218018, 0001218019, 0001218021, 0001218022

**Thread** M10, **Total length** 16.00, **Thread length** 11.00

Pkg. 10

## 135846 Retaining Ring

**Servicing:** 0001106405, 0001106406, 0001107007, 0001107008, 0001107031, 0001107049, 0001107401, 0001107402, 0001107403, 0001107404

*Stop collar: HC-CARGO 137742.*

Pkg. 10

## 135847 Retaining Ring

**Servicing:** 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019, 0001106022

**Thickness** 2.00, **Material** Steel

*Stop collar: HC-CARGO 137742.*

Pkg. 5

## 135848 Stop Collar

**Replacing:** 1000202004

**Servicing:** 0001106405, 0001106406, 0001107007, 0001107008, 0001107031, 0001107049, 0001107066, 0001107401, 0001107402, 0001107403

**ID** 11.00, **OD** 16.70, **Height** 4.70

Pkg. 10

## 135876 Screw

**Replacing:** 9001140371, 2910961287, 2003429059, 2003429058

**Servicing:** 0001218002, 0001218003, 0001218004, 0001218005, 0001218006, 0001218007, 0001218008, 0001218009, 0001218010, 0001218011

**Thread** M10, **Total length** 17.90, **Thread length** 14.00, **Slot type** Torx, **Countersink** No

Pkg. 10

## 136169 Nut

**Replacing:** 2003315040, 2003315004, 2003315002

**Servicing:** 0001410015, 0001410016, 0001410024, 0001410029, 0001410037, 0001410041, 0001410046, 0001410053, 0001410062, 0001410063

**Thread** M10, **OD** 17.00, **Lock nut** Yes

Pkg. 5

## 136237 Washer

**Replacing:** 2000101015, 2000101014

**Servicing:** 0001359023, 0001359031, 0001359035, 0001359050, 0001359051, 0001359054, 0001359059, 0001359066, 0001359089, 0001359092

**ID** 19.50, **OD** 35.00, **Thickness** 2.50, **Material** Steel



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 136273# Gasket

**ID** 28.00, **ID/mount. hole** 6.15, **OD** 54.50, **Thickness** 1.30

Pkg. 10

## 136274 Gasket

**Servicing:** M50

**Length** 75.00, **Thickness** 0.55, **Width** 8.00

Pkg. 5

## 136278 Gasket

**Servicing:** JF, JD series

**Length** 315.00, **Thickness** 0.45, **Width** 38.00

Pkg. 5

## 136281 Gasket

**Length** 300.00, **Thickness** 0.40, **Width** 17.50

Pkg. 25

## 136306 Insulator Bushing

**ID** 4.00, **OD** 6.00, **Length** 7.90

Pkg. 25

## 136307 Washer

**Servicing:** 0001416079

**ID** 4.15, **OD** 13.00, **Thickness** 1.45, **Material** Fiber

Pkg. 10

## 136308 Washer

**Servicing:** 0001107015, 0001107044, 0001108048, 0001108121, 0001108126, 0001108136, 0001108153, 0001108159, 0001109034, 0001109252

**ID** 10.00, **OD** 24.20, **Thickness** 2.00, **Material** Fiber

Pkg. 5

## 136437 Pivot Pin

**Replacing:** 1003450003

**Servicing:** 0001157006, 0001157015, 0001157023, 0001157025, 0001157026, 0001157028, 0001157029, 0001204102, 0001208019, 0001208020

**Total length** 36.25, **Length/ rear collar** 32.00, **Thread length** 8.60, **Thread size** M6

Pkg. 1000

## 136653 Gasket

**ID** 10.20, **OD** 15.45, **Thickness** 1.00

*For M10 bolt.*

## 136696 Gasket

**Replacing:** 1330290700

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

**ID** 64.20, **OD** 81.90, **Thickness** 8.45, **Material** Rubber

## 136697 Washer

**Replacing:** 2000112007

**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010

**ID** 21.50, **OD** 50.20, **Thickness** 5.00, **Material** Plastic

Pkg. 25

## 136735 Insulator Bushing

**Servicing:** 0001416079

**ID** 4.00, **OD** 6.50, **Length** 6.90

Pkg. 10

## 136765 Terminal Lead

**ID** 8.45, **Lead length** 49.00



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#Available while stock last, * Program development.

Pkg. 5

## 136971# Washer

**Replacing:** 2000101093

**Servicing:** 0001211525, 0001211526, 0001211529, 0001211530, 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069

**ID** 12.25, **OD** 21.50, **Thickness** 2.15, **Material** Steel

## 136973# Cover Fastening Kit

*For FKB.*

## 137029 Terminal Bolt

**Replacing:** 2004449088

**Servicing:** 0001107100, 0001107101, 0001107108, 0001417065, 0001417069, 0001417076, B001411400

**Total length** 91.75, **Thread length** 34.40, **Thread size** M12

*Terminal 31.*

Pkg. 5

## 137172 Stop Collar

**Replacing:** 2000500018

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212200, 0001212202, 0001212204, 0001212206

**ID** 27.50, **OD** 45.20, **Height** 5.00

Pkg. 5

## 137176 Washer

**Replacing:** 1000102005

**Servicing:** 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212200, 0001212202, 0001212204, 0001212206

**ID/housing** 27.20, **OD/housing** 36.70, **Thickness** 0.50, **Material** Steel

Pkg. 10

## 137614 Screw

**Replacing:** 2910551240

**Servicing:** 0001410025, 0001410082, 0001501001, 0001501003, 0001501005, 0001501006, 0001501014, 0001501015, 0001501019, 0001501020

**Thread** M8, **Total length** 18.00, **Thread length** 14.00

Pkg. 10

## 137721 Washer

**ID** 32.00, **OD** 48.00, **Thickness** 1.00, **Material** Plastic

Pkg. 5

## 137742 Stop Collar

**Replacing:** 1000202003

**Servicing:** 00010DB98E, 0001105205, 0001106014, 0001106018, 0001106019, 0001106023, 0001107076, 0001107080, 0001107088, 0001107091

**ID** 12.00, **OD** 17.80, **Height** 4.70

*Retaining ring: HC-CARGO 135847.*

Pkg. 5

## 137744 Retaining Ring

**Servicing:** 0001223504, 0001230002, 0001230006, 0001230009, 0001230012, 0001230014, 0001231002, 0001231003, 0001231004, 0001231005

**Thickness** 2.30, **Material** Steel

*Stop collar: HC-CARGO 137746.*

Pkg. 100

## 137745 Stop Collar

**Servicing:** 0001107094, 0001107095, 0001109048, 0001110041, 0001110126, 0001110127, 0001110138, 0001110139, 0001114014, 0001114020

**ID** 12.00, **OD** 17.20, **Height** 5.50

*Retaining ring: HC-CARGO 135847.*

Pkg. 10

## 137746 Stop Collar

**Replacing:** 2000202023

**Servicing:** 0001223504, 0001230002, 0001230006, 0001230009, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231012

**ID** 14.25, **OD** 22.00, **Height** 5.50

*Retaining ring: HC-CARGO 137744.*

Pkg. 5

## 137827 Terminal Switch

**Replacing:** 1004483006, 1004483002

**Servicing:** 0001107031, 0001107049, 0001108123, 0001108160, 9007045009, 9007045020, B001111412

**Total length** 37.20



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 138219# Washer

**OD** 19.90, **Thickness** 2.00, **Material** Steel

Pkg. 10

## 138328 Screw

**Replacing:** 2003429051, 2003429021
**Servicing:** 0001211206, 0001223001, 0001223004, 0001223022, 0001223104, 0001230027, 0001231005, 0001359008, 0001359014, 0001359016
**Thread** M5, **Total length** 34.90, **Thread length** 10.55

Pkg. 10

## 138329 Screw

**Replacing:** 2003429073, 2003429053, 2003429022
**Servicing:** 0001107041, 0001223503, 0001223504, 0001223505, 0001230013, 0001230015, 0001230016, 0001230023, 0001230026, 0001230028
**Thread** M5, **Total length** 45.00, **Thread length** 9.60

Pkg. 5

## 138430 Terminal Lead

**Servicing:** 0001368082, 2004114065
**Lead length** 107.00
*Field coil: HC-CARGO 131074, 131134.*

## 138683 Stop Collar Kit

**Servicing:** 0001108…,0001109…, 0001107014, 0001107015, 0001107044, 0001108003, 0001108004, 0001108018, 0001108019, 0001108021

Pkg. 10

## 138788 Gasket

**ID** 45.00, **OD** 51.00, **Thickness** 0.50

Pkg. 10

## 138835 Screw

**Replacing:** 2005429055
**Servicing:** 0001208206, 0001218008, 0001218145, 0001359012, 0001359014, 0001359016, 0001359027, 0001359046, 0001359074, 0001359078
**Thread** M10, **Total length** 17.95, **Thread length** 13.00

## 139050 Friction Washer

**Replacing:** 2000101042
**Servicing:** 0001420001, 0001420002, 0001420003, 0001420004, 0001420005, 0001420006, 0001420007, 0001420008, 0001420009, 0001420010
**ID** 19.70, **OD** 30.00, **Thickness** 1.50, **Material** Steel

Pkg. 25

## 139115 5★ Screw

**Manufacturer:** Bosch
**Replacing:** 9001333409, 1004421020, 1003421016, 1003421014, 1003421013, 1003421011, 1003421010, 1003421008
**Servicing:** 00010DB98E, 0001105205, 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106018, 0001106019
**Thread** M5, **Total length** 33.25, **Thread length** 10.70
*Fixing screw for solenoid.*

Pkg. 10

## 139157 Fiber Washer

**Replacing:** 2000113000
**Servicing:** 0001354077, 0001354082, 0001354089, 0001354091, 0001354100, 0001358040, 0001358047, 0001358048, 0001359102, 0001362001
**ID** 20.15, **OD** 36.25, **Thickness** 2.00, **Material** Fiber

Pkg. 10

## 139303 Screw

**Replacing:** 2003410019
**Servicing:** 0001208211, 0001212206, 0001212207, 0001314002, 0001359002, 0001359003, 0001359010, 0001359027, 0001359033, 0001359040
**Thread** M5, **Total length** 36.45, **Thread length** 10.55
*Fixing screw for solenoid.*



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#Available while stock last, * Program development.

Pkg. 10

## 139339 Cup Washer

**Replacing:** 2000500084

**Servicing:** 0001203008, 0001203010, 0001204002, 0001204005, 0001208516, 0001208707, 0001308001, 0001308006, 0001308007, 0001401044

**ID** 6.50, **OD** 15.00, **Thickness** 0.90, **Coating** Zinc plated, **Material** Metal

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Pkg. 10

## 139340 Gasket

**Replacing:** 2000109008, 2000109007

**Servicing:** 0001401044, 0001401046, 0001401049, 0001401050, 0001401067, 0001401069, 0001401071, 0001401073, 0001402018, 0001402050

**ID** 6.60, **OD** 12.20, **Thickness** 2.55, **Material** Plastic

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Pkg. 10

## 139343 Terminal Lead

**ID** 8.00, **Lead length** 28.00

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## 139360 Terminal Bolt

**Replacing:** 2001030032

**Servicing:** 0001410024, 0001410088, 0001411009, 0001416002, 0001416012, 0001416043, 0001416074, 0001416078, 0001417064, 0001417065

**Total length** 122.60, **Thread length** 34.60, **Thread size** M12

*Terminal 30.*

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Pkg. 10

## 139362 Mounting Ring

**Replacing:** 1000134003, 1000134001

**Servicing:** 0001107049, 0001108188, 0001108190, 0001108405, 0001108406, 0001109033, 0001109041, 0001109330, 0001109331, 0001109369

**ID** 34.55, **OD** 52.00, **Height** 3.35

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Pkg. 10

## 139633 Gasket

**ID** 44.00, **ID/mount. hole** 4.80, **OD** 49.25, **Thickness** 1.30, **Material** Rubber

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Pkg. 5

## 139810 5★ Brake Washer

**Manufacturer:** Bosch

**Replacing:** 2000112008

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

**ID** 21.30, **OD** 49.30, **Thickness** 3.20

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## 139812 Lock Ring

**Replacing:** 1000328001

**Servicing:** 0001212204, 0001212205, 0001212206, 0001212207, 0001212208, 0001212209, 0001212210, 0001212211, 0001212212, 0001212213

**ID** 24.20, **OD** 49.50, **Height** 22.50

*Flat Washer: HC-CARGO 192821.*

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Pkg. 10

## 139813 Steel Ball

**Replacing:** 1903230007

**Servicing:** 0001212001, 0001212003, 0001212005, 0001212006, 0001212007, 0001212008, 0001212011, 0001212012, 0001212200, 0001212202

**OD** 4.00, **Material** Steel

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## 139962 Terminal Bolt

**Replacing:** 2001030034, 2001030033

**Servicing:** 0001410037, 0001413017, 0001414003, 0001414010, 0001414011, 0001415002, 0001415007, 0001415016, 0001415017, 0001416001

**Total length** 125.90, **Thread length** 33.45, **Thread size** M10

*Terminal 30.*

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Pkg. 100

## 190510 Hex Screw

**Replacing:** 2911061301, 2003450040

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410018, 0001410026, 0001410029, 0001410032, 0001410033, 0001410034, 0001410035

**Thread** M10x50, **Spanner size** 17.00, **Length** 50.00, **DIN norm** 931, **ISO Norm** 4014

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Pkg. 100

## 192752 Bolt

**Replacing:** 2911051281

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**Thread** M10, **Spanner size** 17.00, **Length** 12.00, **DIN norm** 933, **ISO Norm** 4017

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## 230089 5★ Solenoid Parts Kit

**Manufacturer:** Bosch

**Replacing:** 2337010006

**Servicing:** 0001362001, 0001362002, 0001362003, 0001362004, 0001362016, 0001362027, 0001362028, 0001362029, 0001362030, 0001362038

Pkg. 10

## 230104 Terminal Lead

**Servicing:** 0001116006, 0001121018, 0001121019, 0001121024, 0001121025

**ID** 8.00, **Lead length** 23.00

Pkg. 10

## 230373 5★ Rubber Drain

**Manufacturer:** Bosch

**Replacing:** 1000306002

**Servicing:** 0001108188, 0001112018, 0001223013, 0001223501, 0001230003, 0001230004, 0001230005, 0001230006, 0001230007, 0001230008

**OD** 5.20, **Length** 30.00

Pkg. 10

## 230501 Screw

**Replacing:** 2910550282, 2910480282

**Servicing:** 0001203008, 0001203009, 0001203010, 0001204002, 0001204005, 0001204006, 0001204102, 0001207001, 0001207003, 0001207005

**Thread** M10, **Total length** 12.15, **Thread length** 7.85

## 230585# Terminal Cover

**Replacing:** 2007000019

**Servicing:** 0001230025, 0001369023, 0001369201

**ID** 67.30, **ID/cone** 56.90, **OD** 63.25, **Material** Plastic

Pkg. 5

## 230632 5★ Brake Washer

**Manufacturer:** Bosch

**Replacing:** 2000112027

**Servicing:** 0001370001, 0001370002, 0001370003, 0001370004, 0001371001, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008

**ID** 22.70, **OD** 37.80, **Thickness** 3.30, **Material** Fiber

## 230633 Terminal B+ Strap

**Replacing:** 1001090036

**Servicing:** 0001125501, 0001125502, 0001125511, 0001125512, B001126081

**ID/mount. hole** M8, **Length** 17.10/99.60 *Terminal 30.*

## 230845 Washer Kit

**Replacing:** 2007010132

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

Pkg. 2

## 231021 Threaded Pin

**Replacing:** 2003527040

**Servicing:** 0001410015, 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029, 0001410035, 0001410037

**Total length** 69.50, **Thread length** 14.45, **Thread size** M8

## 231055 Terminal Lead

**Replacing:** 2004438000

**Servicing:** 0001410016, 0001410017, 0001410019, 0001410021, 0001410022, 0001410024, 0001410029, 0001410035, 0001410037, 0001410041

**Total length** 132.00

Pkg. 10

## 231056 Terminal Lead

**Replacing:** 2004438002

**Servicing:** 0001410019, 0001410022, 0001410024, 0001410037, 0001410049, 0001410050, 0001410068, 0001410069, 0001410075, 0001410077

**Total length** 116.00

Pkg. 5

## 231135 Retainer

**Servicing:** 0001330008, 0001359019, 0001359038, 0001359083, 0001359107, 0001359108, 0001359111, 0001360010, 0001360012, 0001360014

**ID/housing** 10.70, **OD/housing** 27.00



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#Available while stock last, * Program development.

Pkg. 10

## 231176 Screw

**Replacing:** 2914501038

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371005, 0001371006, 0001371007, 0001371008, 0001371009, 0001371010, 0001371012

**Thread** M5, **Total length** 15.70, **Thread length** 11.50

Pkg. 10

## 231275 Bolt

**Replacing:** 2003526051

**Servicing:** 0001370003, 0001370004, 0001371004, 0001371006, 0001371008, 0001371018, 0001371019, 0001371020, 0001371120

**Total length** 39.00, **Thread size** M10, **Thread size/rear** M10

Pkg. 5

## 231553 Rubber Boot

**Servicing:** 0001371006, 0001372002, 0001372003, 0001372005, 0001372006, 0001372007, 0001372008, 0331403003, 0331403004, 2339403006

**ID** 22.45, **OD** 61.65, **Length** 25.60

*Solenoid: HC-CARGO 139965, 139967.*

Pkg. 10

## 231596 Solenoid Screw

**Replacing:** 9001333448, 6033AC4017, 2003429072, 1003421020, 1003421015

**Servicing:** 0001106014, 0001106407, 0001106409, 0001106410, 0001107003, 0001107004, 0001107007, 0001107008, 0001107020, 0001107021

**Thread** M5, **Total length** 35.60, **Thread length** 9.80, **Slot type** Torx, **Countersink** Yes

Pkg. 10

## 231646 Bolt

**Replacing:** 2914551013

**Servicing:** 0001371004, 0001371006, 0001410015, 0001410016, 0001410017, 0001410019, 0001410022, 0001410024, 0001410035, 0001410037

**Total length** 16.00, **Length/rear collar** 13.85, **Thread length** 13.85, **Thread size** M5

Pkg. 10

## 231647 Rubber Drain

**Replacing:** 6033AC1622, 6033AC1436, 6033AC0250

**Servicing:** 0001218110, 0001218135, 0001218136, 0001218137, 0001218602, 0001218620, 0001218703, 0001218710, 0001218711, 0001218712

**OD** 5.65, **Length** 31.10

## 232189 Felt

**Replacing:** 2000205001

**Servicing:** 0001364100, 0001364101, 0001364102, 0001364104, 0001364105, 0001364106, 0001364200, 0001364201, 0001364202, 0001364203

Pkg. 10

## 232978 Washer

**Replacing:** 9003330116, 232978

**Servicing:** 0001230006, 0001230012, 0001230014, 0001231002, 0001231008, 0001231011, 0001231013, 0001231017, 0001231029, 0001231030

**ID** 8.00, **OD** 17.00, **Thickness** 0.30, **Material** Metal

Pkg. 10

## 233631 Screw

**Replacing:** 9001333449, 9001333435

**Servicing:** 0001218137, 0001218139, 0001218143, 0001218144, 0001218168, 0001218170, 0001218171, 0001218172, 0001218173, 0001218178

**Thread** M5, **Total length** 40.00, **Thread length** 9.60, **Slot type** Phillips, Pozidriv, **Countersink** Yes

## 233928 Terminal Bolt

**Replacing:** 2004449000

**Servicing:** 0001410019, 0001410022, 0001410023, 0001410024, 0001410025, 0001410036, 0001410037, 0001410038, 0001410050, 0001410055

**Total length** 91.50, **Thread length** 34.75, **Thread size** M10

*Terminal 31.*

Pkg. 10

## 233930 Nut

**Servicing:** 0001510005

**Thread** M10, **OD** 16.85, **Lock nut** No

*Rod: HC-CARGO 134441.*

Pkg. 5

## 234078 Washer

**Replacing:** 2000101034

**Servicing:** 0001359111, 0001362039, 0001364102, 0001364200, 0001364203, 0001364301, 0001367077, 0001368016, 0001368024, 0001368038

**ID** 14.00, **OD** 40.00, **Thickness** 0.50, **Material** Steel



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

## 234487# Brake Washer

**ID** 15.50, **OD** 23.00, **Thickness** 1.00

## 234786 Bolt

**Replacing:** 2003527023

**Servicing:** 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001372002, 0001372003, 0001372007, 0001372008, B001860021

**Total length** 20.00, **Thread size** M5, **Thread size/rear** M5

## 234787 5★ Cover

**Replacing:** 2000516014

**Servicing:** 0001371010, 0001371013, 0001371015, 0001371016, 0001371018, 0001372002, 0001372003, 0001372007, 0001372008, B001860021

**ID** 37.60, **Height** 62.05

*Bosch.*

Pkg. 5

## 234885# Gasket

**Servicing:** 0001116001

**Width** 7.76/5.01

Pkg. 10

## 235237 Spring/roller retainer

**Replacing:** 1120591511

**Servicing:** 0123325500, 0123525501, 0123525504

**ID** 27.25, **OD** 45.45, **Thickness** 1.75, **Material** Shockproof plastic

## 235295 Pin

**Replacing:** 2917570195

**Servicing:** 0001108107, 0001108123, 0001108153, 0001108166, 0001108167, 0001108189, 0001108402, 0001108411, 0001108412, 0001110063

**OD** 10.00, **Length** 19.50

Pkg. 10

## 235461 Spacer

**Servicing:** 0001107076, 0001108166, 0001108167

**ID** 9.96, **OD** 5.37, **Height** 7.49

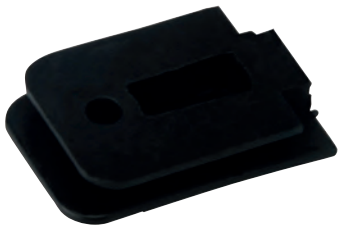
Pkg. 10

## 235761 Gasket

**Servicing:** 0001106015, 0001107098, 0001107401, 0001107402, 0001107404, 0001107405, 0001107409, 0001107429, 0001107435, 0001107436

**ID** 46.12, **OD** 54.00, **Thickness** 6.15, **Type** Starter, **Material** Rubber

Pkg. 10



## 236456 Grommet

**Servicing:** 0001112017

**ID/mount. hole** 3.50, **Length** 31.65, **Thickness** 6.55, **Width** 20.10, **Type** Starter, **Material** Rubber

## 237750 5★ Cover for solenoid

**Manufacturer:** Bosch

**Replacing:** 6033AD5334, 6033AC5322, 6033AC5015

**Servicing:** 0001241001, 0001241003, 0001241007, 0001241014, 0001241019, 0001241119, 0001261001, 0001261002, 0001261003, 0001261004

**OD** 111.25, **Height** 63.20

## 237770 Nut

**Replacing:** 6033AC5186

**Servicing:** 0001231040, 0001231502, 0001241001, 0001241003, 0001241006, 0001241007, 0001241014, 0001241015, 0001241019, 0001241020

**Thread** M10, **OD** 16.00, **Lock nut** No

*Torx.*

Pkg. 5

## 238957 Bolt

**Servicing:** 0001368011, 0001368083

**Length/rear collar** 41.50, **Thread length** 29.00, **Thread size** M5, **Thread size/rear** M8



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#Available while stock last, * Program development.

Pkg. 5

## 238958 Bolt

**Servicing:** 0001372001, 0001372006, B001960018

**Length/rear collar** 40.70, **Thread length** 29.50, **Thread size** M5, **Thread size/rear** M10

Pkg. 5

## 330515 Gasket

**Replacing:** XXX1069245, 1001006002

**Servicing:** 0001105205, 0001109205, 0001109304, 0001109305, 0001109324, 0001109325

**Length** 60.00, **Thickness** 5.18, **Width** 80.00, **Type** Starter, **Material** Rubber

Pkg. 10

## 330686 Washer

**ID** 11.04, **OD** 48.59, **Thickness** 3.20, **Material** Metal/Rubber

Pkg. 200

## 333480 5★ Protection Cap

**Replacing:** 2000558009

**ID** 12.00, **ID 2** 25.00, **Length** 52.50, **Thickness** 28.00, **Width** 27.00, **Material** Rubber

Pkg. 100

## 333481 Protection Cap

**Replacing:** 1339999020

**Servicing:** 0120600502, 0136500026, 0136500028, 0136501066, 0136501067

**ID** 12.00, **ID 2** 17.00, **Length** 57.30, **Thickness** 25.00, **Width** 25.00, **Material** Rubber

Pkg. 5

## 333580 5★ Protection Cap

**Manufacturer:** Bosch

**Replacing:** 3130558000

**Servicing:** 0101206151, 0101209031, 0101209041, 0101302029, 0101356006, 0120300535, 0120300552, 0120300562, 0120300567, 0120300575

**ID 2** 5.70, **ID** 12.50, **OD** 19.50, **OD 2** 11.12, **Length** 42.32, **Thickness** 23.00, **Width** 19.15, **Material** Rubber

**Alternative no.:** 333627

Pkg. 5

## 333583 5★ Protection Cap

**Manufacturer:** Bosch

**Replacing:** 2000558000

**Servicing:** 0001402018

**ID** 18.25, **ID 2** 26.00, **OD** 31.30, **OD 2** 24.20, **Length** 67.90, **Thickness** 28.80, **Width** 27.50, **Material** Rubber

Pkg. 5

## 333633 Stop Collar

**Replacing:** 2000328021

**Servicing:** 0001106011, 0001106012, 0001106014, 0001106015, 0001106016, 0001106017, 0001106022, 0001106023, 0001106024, 0001107003

**ID** Ø10.3/Ø13.83, **OD** 16.00, **Height** 9.40

Pkg. 100

## 333717 5★ Protection Cap

**Replacing:** 2000558001

**Servicing:** 0136501019, 0136501025, 0136501038, 0136501041, 0136503002, 0136503004, 0136602001

**ID** 28.00, **ID/cone** 12.00, **OD** 17.00, **Length** 50.00, **Height** 25.00, **Width** 30.00, **Colour** Black, **Material** Rubber

## Armatures

### 12 V

**234204** Armature
**Replacing:** 692034, 497603
**Servicing:** 282700, 497594, 497595, 497596, 693054, 693551, 695479
12 **V**, **Shaft length** 167.00, **Core thickness** 55.00

## Field Cases

**234471**# Field Case
**Replacing:** 398159, 393825
**Servicing:** 394805, 394808, 491308, 497453, 498149, 690658
**OD/middle** 78.50, **Length** 97.20/3.83", **Brush gear** w/o, **Magnets** w/

## D.E. Brackets

**234209** Brush Gear
**Replacing:** 395537
**Servicing:** 393499, 394805, 394807, 394808, 394943, 396306, 491308, 491766, 497453, 498149, 690658
12 **V**, **OD** 79.20

## Drives

**137278** Drive Kit
**Replacing:** 391461
**Servicing:** 390838, 391178, 392749, 393499, 394807, 394943
**OD** 41.00, **Splines A** 2, **No./teeth** 16
*Gear: HC-CARGO 139395.*

**139417** Drive Kit
**Replacing:** 696539, 495877, 490467, 393254
**Servicing:** 394808, 396306, 399169, 490420, 494148, 494198, 494990, 495100, 498148
**ID** 16.20, **OD** 40.00, **Total length** 11.55, **Splines A** 2, **No./teeth** 16
*Gear: HC-CARGO 139395.*

**139418** Drive Kit
**Replacing:** 696540, 495878, 490771, 490421, 396865, 3886
**Servicing:** 394805, 394808, 396306, 399169, 399928, 490420, 494148, 494198, 494990, 495100, 498148
**OD** 41.00, **Splines A** 2, **No./teeth** 16
*Gear: HC-CARGO 139395.*

**230399** Drive Kit
**Replacing:** 491836
**Servicing:** 490753, 495104
**OD** 40.00, **Total length** 19.50, **No./teeth** 16

**230400** Drive Kit
**Replacing:** 497606
**Servicing:** 497401, 497594, 497595, 497596, 499521, 693054
**OD** 41.00, **Total length** 11.50, **No./teeth** 16
*w/ snap ring.*

## Drive Parts

### Pinion

**139395** Pinion
**Replacing:** 693059, 4114, 280104
**Servicing:** 390838, 394805, 399928, 491334, 495102, 497596, 498148
**ID** 20.50, **OD** 41.00, **Height** 11.50, **No./splines** 2, **No./teeth** 16

**234466**# Pinion
**ID** 15.90, **OD** 40.60/1.60", **Height** 19.80/0.78", **No./splines** 2, **No./teeth** 16

**235627** Pinion
**Replacing:** 693713
**Servicing:** 693551, 693552, 695479
**ID** 16.20, **OD** 40.85, **Total length** 13.80, **Splines A** 2, **No./teeth** 14, **Rotation** ACR

## Clutches

**234211** Clutch
**Replacing:** 692024, 398003, 391135
**Servicing:** 393499, 394805, 394807, 394808, 394943, 396306, 399169, 399928, 490420, 491308, 494148, 494198, 494990, 495100, 497401



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#Available while stock last, * Program development.

## Brush Gears

**230397** Brush Gear
**Replacing:** 691293, 497605
**Servicing:** 390838, 394805, 497401, 497594, 497595, 497596, 499521, 693054, 693551, 693552, 694504, 695479
12 **V**, **OD** 71.60

## Brush Gear Parts

### Brush Holders

**230402** Brush Box
**OD** 44.00

## Brush Sets

**141049** Brush Set
**Replacing:** 497608
**Servicing:** 497401, 497594, 497595, 497596, 499521, 693054, 693551, 693552, 694504, 695479
12 **V**, **Length** 15.60 (0.614"), **Lead length** 43.00, **Lead length 2** 74.00, **Height** 9.50 (0.374"), **Thickness** 7.10 (0.280")

**141052** Brush Set
**Replacing:** 490311
**Servicing:** 399928, 490753, 491334, 495102, 498148
12 **V**, **Length** 15.60 (0.614"), **Lead length** 81.00, **Lead length 2** 59.50, **Height** 12.60 (0.496"), **Thickness** 9.40 (0.370")

**141053** Brush Set
**Replacing:** 391791
**Servicing:** 390838, 391178, 392749, 393017, 394674
12 **V**, **Length** 14.90 (0.587"), **Lead length** 43.50, **Height** 9.40 (0.370"), **Thickness** 6.20 (0.244")

## Bushings

Pkg. 10

**141050** Bushing
**Servicing:** 391334, 393499, 394943, 491334, 492336, 492780, 494233, 495102, 691376, 695550, 795092
**ID** 9.60, **OD/collar** 18.80, **OD** 14.30, **Length** 9.45, **Height/collar** 1.40

Pkg. 10

**141051** Bushing
**Servicing:** 391334, 393499, 394943, 491334, 492336, 492780, 494233, 495102, 691376, 695550, 795092
**ID** 12.51, **OD** 18.24, **Length** 12.68

**141077** Bushing
**ID** 12.55, **OD/collar** 24.00, **OD** 19.04, **Length** 13.45, **Height/collar** 3.00

Pkg. 10

**141078** Bushing
**ID** 12.55, **OD** 19.05, **Length** 11.90

## Repair Kits

**139394** Repair Kit
**Replacing:** 395538
**Servicing:** 393499, 394805, 394807, 394808, 394943, 396306, 491308, 497453, 498149, 690658
12 **V**, **Length** 9.50, **Lead length** 18.80, **Height** 14.30, **Thickness** 9.50
*Bushing: O.D. 18.23 mm, I.D. 9.54 mm, L. 12.74 mm. Bushing: O.D. 14.35 mm, I.D. 9.54 mm, L. 9.51 mm.*



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#Available while stock last, * Program development.

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## Armatures

### 24 V

**134108** 5★ Armature
**Manufacturer:** Prestolite
**Replacing:** 852529, 852506, 851330, 850262, 850261
**Servicing:** 850277, 850604, 850606, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851515, 851539, 852563, 852651, 854139
24 **V**, 7 **kW**, **Shaft length** 450.00, **Core thickness** 83.00, **No./splines** 19

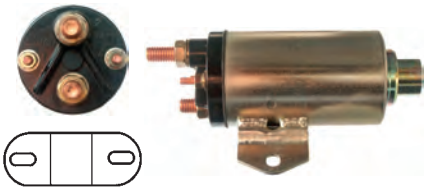
## Field Coils

### 24 V

**134111**# Field Coil
**Replacing:** 851133, 850187
**Servicing:** 850277, 850604, 850606, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851515, 851539, 852563, 852651, 854139
24 **V**, 7 **kW**, **Height** 159.00, **Internal height** 105.35, **Inner width** 36.50

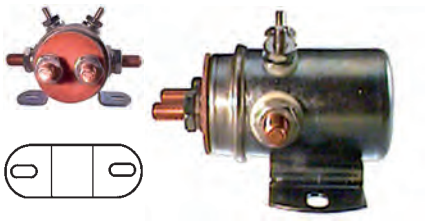
## Solenoids

### 24 V



**132140** Solenoid
**Replacing:** 856121, 856025, 855528, 855248, 850686
**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851360
24 **V**, **B+** M14-1.50, **Kl. 15a** M6, **Kl. 50** M6, **OD** 76.00, **OD/cover** 76.35, **Total length** 216.50, **Height/B+** 33.00, **Width/kl. 15a** 18.30, **Width/kl. 50** 17.75, **Coil bolt** M14-1.50, **Coil bolt 2** 24.60, **No./terminals** 4
*Cap: HC-CARGO 132141. Moving contact: HC-CARGO 132142. Insulated return.*

**136400** Solenoid
**Replacing:** 856407
**Servicing:** 856766, 857673, 858617, GR2, GR45, GR45/10, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/9
24 **V**, **B+** M12, **Kl. 15a** M5, **Kl. 50** 9.40, **OD** 56.80, **OD/cover** 56.90, **Total length** 188.90, **Height/B+** 26.00, **Width/kl. 15a** 14.60, **Width/kl. 50** 11.20, **Coil bolt** M8, **Coil bolt 2** 9.40, **No./terminals** 4
*Insulated return.*



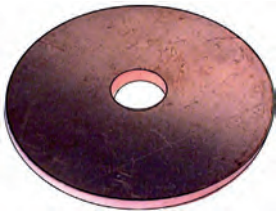
**137766** 5★ Solenoid
**Manufacturer:** Prestolite
**Replacing:** 860867
24 **V**, 100 **Amp**, **Intermittent load** 600 Amp., **B+** 5/16" UNF, **Kl. 15a** 3/16"UNF, **Kl. 50** 3/16"UNF, **OD** 41.00, **Total length** 89.40, **Height/B+** 18.35, **Width/kl. 15a** 12.00, **Width/kl. 50** 12.40, **Coil bolt** 5/16" UNF, **Coil bolt 2** 17.65, **Seconds** 5, **No./terminals** 6

**138984** Solenoid
**Replacing:** 859420
**Servicing:** 859411, 859839, 859970, LNS4524, LNS4524/11, LNS4524/12, LNS4524/13, LNS4524/14, LNS4524/15, LNS4524/16, LNS4524/17
24 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** 9.40, **OD** 56.75, **OD/cover** 56.90, **Total length** 180.55, **Height/B+** 27.75, **Width/kl. 15a** 14.60, **Width/kl. 50** 11.80, **Coil bolt** M8, **Coil bolt 2** 11.25, **No./terminals** 4
*Insulated return.*

## Solenoid Parts

### Moving Contacts

Pkg. 5



**132142** Contact Plate
**Replacing:** 850689
**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851360
**Thickness** 3.00, **Width** 50.15
*12/24 V.*

### Various

**136412** Rubber Boot
**Replacing:** 850733
**Servicing:** MS1, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108, MS1/109, MS1/110, MS1/111
**OD** 52.35, **Length** 43.35

## Drives

**131056** Drive
**Replacing:** 852762
**Servicing:** 40MT, 42MT, 50MT
**ID** 15.90, **OD** 46.20, **OD/housing** 57.65, **Total length** 120.40, **Splines A** 19, **No./teeth** 12, **Rotation** CR



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## 131766 Drive

**Replacing:** 852957, 852758, 850758, 850363

**Servicing:** 40MT, 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850811, 850894, 851002, 851004A, 851339, 851360, 851450

**ID** 19.00 (3/4"), **OD** 46.30, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 12, **Rotation** CR

*Bronze.*

## 131767 Drive

**Replacing:** 852958, 852759, 850764, 850674

**Servicing:** 40MT, 50MT, MS3/30, MS3/7, MS3A

**ID** 15.90 (5/8"), **OD** 38.80, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 10, **Rotation** CR

## 131768 Drive

**Replacing:** 852959, 852760, 850760, 850629

**Servicing:** 40MT, 850628, 851124, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/107, MS1/108, MS1/111, MS1/113, MS1/114

**ID** 19.00 (3/4"), **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 11, **Rotation** CR

## 136402 Drive

**Replacing:** 856938

**Servicing:** 856766, 857673, 858617, GR45/18, GR45/2, GR45/9

**ID** 14.00, **OD** 31.90, **OD/housing** 63.00, **Total length** 90.70, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 232228 Drive

**Replacing:** 859145

**Servicing:** 859411, 859839, 859970, LNS4524, LNS4524/11, LNS4524/23, LNS4524/24, LNS4524/26, LNS4524/5, LNS4524/6

**ID** 14.30, **OD** 31.20, **OD/housing** 59.55, **Total length** 107.00, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## Brush Sets

## 140549 Brush Set

**Replacing:** 856416, 856412

**Servicing:** 856766, 857673, 858617, GR45, GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3

24 **V**, **Length** 20.00, **Lead length** 40.00, **Lead length 2** 49.50, **Height** 25.00, **Thickness** 8.00

## 141200 Brush Set

**Replacing:** 859091, 859090

**Servicing:** 859411, 859839, 859970, LNS4524, LNS4524/11, LNS4524/12, LNS4524/13, LNS4524/14, LNS4524/15, LNS4524/16, LNS4524/17

24 **V**, **Length** 21.00, **Lead length** 160.00, **Lead length 2** 58.00, **Height** 19.00, **Thickness** 9.50

## BUTSX44 Brush Set

**Replacing:** 850749

**Servicing:** MS3, 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A, 851124, 851339

24 **V**, **Lewngth** 21.00, **Lead length** 62.00, **Height** 20.40, **Thickness** 9.50

## Bushings

Pkg. 10

## 140402 Bushing

**Replacing:** 855174, 850139

**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851360

**ID** 22.22, **OD** 28.60, **Length** 31.75

**Alternative no.:** B140402

Pkg. 10

## 140403 Bushing

**Replacing:** 850141

**Servicing:** 850277, 850461, 850534, 850598, 850604, 850606, 850615, 850628, 850811, 850894, 851002, 851004A, 851124, 851339, 851360

**ID** 19.05, **OD** 25.40, **Length** 19.50

**Alternative no.:** B140403

Pkg. 5

## 140521 Bushing

**Replacing:** 856476

**Servicing:** 856766, 857673, 858617, GR45/10, GR45/13, GR45/14, GR45/15, GR45/16, GR45/17, GR45/18, GR45/19, GR45/2, GR45/3, GR45/5

**ID** 14.03, **OD** 17.50, **Length** 19.00

Pkg. 5

## 141201 Bushing

**Replacing:** 859077

**Servicing:** 859411, 859839, 859970, LNS4524, LNS4524/11, LNS4524/12, LNS4524/13, LNS4524/14, LNS4524/15, LNS4524/16, LNS4524/17

**ID** 14.30, **OD** 17.49, **Length** 17.97



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Pkg. 100

**B140402** Bushing

**Replacing:** 855174, 850139

**ID** 22.22, **OD** 28.60, **Length** 31.75

**Alternative no.:** 140402

Pkg. 100

**B140403#** Bushing

**Replacing:** 850141

**ID** 19.05, **OD** 25.40, **Length** 19.05

**Alternative no.:** 140403

## Sundry Parts

### Oil Seals

Pkg. 5

**139895** Oil Seal

**Replacing:** 850137

**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108, MS1/109, MS1/110

**ID** 22.20, **OD** 28.60, **Height** 3.80

### Various

Pkg. 5

**136415** Thrust Washer

**Replacing:** 850148

**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108, MS1/109, MS1/110

**ID** 22.00, **OD** 38.20, **Thickness** 1.60, **Material** Fiber

Pkg. 10

**139896** Wick

**Replacing:** 850154

**Servicing:** MS1, MS1-327A, MS1/100, MS1/101, MS1/102, MS1/103, MS1/104, MS1/105, MS1/106, MS1/107, MS1/108, MS1/109, MS1/110



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## Armatures

### 12 V

**130136** Armature

**Replacing:** A889, 6211-270, 6211-26B, 6211-26

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320035, 1320036, 1320045, 1320092, 1320161, 1320183, 1320502, 1320510

12 **V**, 3.6 **kW**, **Shaft length** 355.00, **Core thickness** 74.40, **No./splines** 3, **Rotation** CR
*4 holes.*

### 24 V

**130137** Armature

**Replacing:** A948, 6211-225B, 6211-225A, 6211-225, 6211-144B, 6211-144

**Servicing:** 1321021, 1321032, 1321033, 1321041, 1321112, 1321182, 1321471, 1321491, 1321552, 1321580, 1321600, 1321700, 1321780

24 **V**, 5.2 **kW**, **Shaft length** 355.00, **Core thickness** 74.40, **No./splines** 3, **Rotation** CR
*6 holes.*

**131657** Armature

**Replacing:** A505, A368, 5586-194

24 **V**, 4 **kW**, **Shaft length** 364.00, **Core thickness** 82.00

## Field Coils

### 12 V

**133018** Field Coil

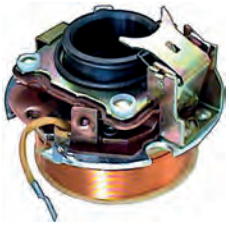
**Replacing:** F564C, 6211-289A

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320045, 1320092, 1320161, 1320183, 1320502, 1320510, 1320513, 1320515

12 **V**, 3.6 **kW**, **Height** 134.40, **Internal height** 94.85, **Inner width** 29.60

## Solenoids

### 12 V

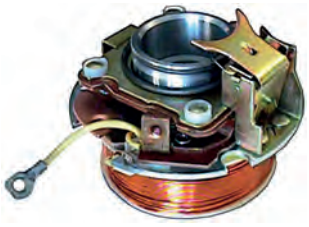


**132594** Solenoid

**Replacing:** 6211-39

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183, 1320502, 1320510

12 **V**, **OD** 98.40, **Total length** 60.70



**132595** Solenoid

**Replacing:** 6510-58, 6211-39D, 6211-39C, 6211-39B

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027, 1320F028

12 **V**

**132597** Solenoid

**Replacing:** 6510-59, 6211-826, 6211-191A

**Servicing:** 1320035, 1320036, 1320F035, 1320F036, 1320F114, 1320F294, 1320F352, 1320F502, 1320F552, 1320F601, 1320F914, 1320G035

12 **V**, **OD** 98.30, **Total length** 60.45
*Insulated return.*

### 24 V

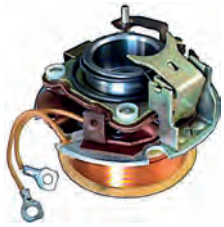
**130332** 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** 267-4, 267-2, 1828A040, 1828040, 1828020

**Servicing:** 1333480, 1333520, 1333860, 1364101, BS524P-216

24 **V**, **OD** 60.50, **Total length** 83.00



**132599**# Solenoid

**Replacing:** 6211-206A, 6211-206

**Servicing:** 1321032, 1321033, 1321112, 1321292, 1321352, 1321491, 1321552, 1321580, 1321600, 1321780, CA45D24-11, CA45D24-11M

24 **V**, **OD** 98.30, **Total length** 60.10
*Insulated return.*

**132600** Solenoid

**Replacing:** 6211-825, 6211-516, 6211-152B, 6211-152A

**Servicing:** 1321F022, 1321F042, 1321F183, 1321F472, 1321F532, 1321F652, 1321F701, 1321F702, 1321F871, 1321F906, 1321F910, 1321F913

24 **V**



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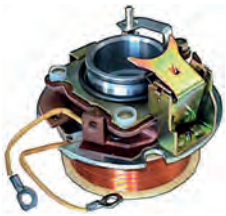

**132601** Solenoid

**Replacing:** 6211-517

**Servicing:** 1321F032, 1321F033, 1321F112, 1321F292, 1321F352, 1321F491, 1321F551, 1321F580, 1321F600, 1321F780, 1321F840, 1321F880

24 **V**, **OD** 98.30, **Total length** 60.35

*Insulated return.*

**230436** 5★ Solenoid

**Manufacturer:** Prestolite

**Replacing:** 6510-60

**Servicing:** 1327470, 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7, S11524-8

24 **V**, **OD** 98.30, **Total length** 70.60

## Solenoid Parts

### Moving Contacts

**130851** Contact Kit

**Replacing:** 6211-33, 6211-32, 6010-240, 6010-148

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320035, 1320036, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183

*12/24 V.*

### Fixed Contacts

**231467** Contact Plate

**Replacing:** 6510-68

**Servicing:** S114HD24-2

**ID** 39.85, **OD** 98.50, **Thickness** 3.55

## Drives

**130417** Drive

**Replacing:** 5549-306BJ

**Servicing:** 1332521, 1333590, 1333860, BS524P-159, BS524P-186, BS524P-52

**ID** 14.70, **OD** 34.70, **OD/housing** 35.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

**130722** Drive

**Replacing:** 5549-306CH

**Servicing:** 1343391, 1343491, 1343502, 1343503, 1343508, 1343511, 1343514, 1343530, 1343550, 1343731, 1343754, 1343C391, 1343C503

**ID** 14.70, **OD** 39.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 10

**130900** Drive

**Replacing:** 5933-820S, 5933-820, 5933-332A

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F515, 1320G027, 1320G515

**ID** 15.85, **OD** 39.60, **Total length** 139.00, **No./teeth** 10

*4 holes.*

**130940** Drive

**Replacing:** 6211-375

**Servicing:** 1320F027, 1320F035, 1320F183, 1320F513, 1320F515, 1320F810, 1320F921, CA45F12-109, CA45F12-18, CA45F12-2, CA45F12-3

**ID** 15.50, **OD** 39.60, **Total length** 139.00, **Splines A** 8, **No./teeth** 10

*8 holes.*

**131745** Drive

**Replacing:** 5549-306BS

**Servicing:** 1331451, 1332814, 1333272, 1333580, 1333830, 1343351, 1364080, BS512P-145, BS524P-127S, BS524P-158, BS524P-183

**ID** 14.60, **OD** 39.50, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

**131747** Drive

**Replacing:** 5549-306W

**Servicing:** 1331441, 1331520, 1331670, 1333441, 1333520, 1333670, BS512P-144, BS512P-152, BS512P-167, BS524P-144, BS524P-152

**ID** 14.50, **OD** 45.90, **Total length** 120.00, **Splines A** 3, **No./teeth** 13

**131749** Drive

**Replacing:** 6211-66

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320092, 1320183, 1320510, 1320513, 1320515, 1320810, 1320F022, 1320F027

**ID** 15.40, **OD** 39.60, **Total length** 139.00, **Splines A** 3, **No./teeth** 10

*4 holes.*

**131752** Drive

**Replacing:** 6211-375B

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F515, 1320G027, 1320G515

**ID** 15.50, **OD** 39.60, **Total length** 139.00, **Splines A** 3, **No./teeth** 10

*10 holes.*



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## 133790 Drive

**Replacing:** 6211-700AA, 6211-596F, 6211-596B
**Servicing:** 1321G022, 1321G033, 1321G183, 1321G551, 1321G906, 1321G910, CA45G24-106, CA45G24-18, CA45G24-3M
**ID** 15.50, **OD** 39.45, **Total length** 139.00, **No./teeth** 10
*10 holes.*

## 133791 Drive

**Replacing:** 6211-596G, 6211-596
**Servicing:** 1320G028, 1320G036, 1320G552, CA45G12-2M, CA45G12-3M, CA45G12-55M
**ID** 15.50, **OD** 39.50, **Total length** 139.00, **No./teeth** 10
*8 holes.*

## 133909 Drive

**Replacing:** 6211-375V
**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027, 1320F183
**ID** 15.50, **OD** 39.50, **Total length** 139.00, **Splines A** 3, **No./teeth** 10
*8 holes. w/ oil seal.*

## 134466 Drive

**Replacing:** 6211-375G
**Servicing:** 1320035, 1320036, 1320F028, 1320F035, 1320F036, 1320F552, 1320G036, CA4512-3, CA45D12-3, CA45F12-2M, CA45F12-3
**ID** 15.90, **OD** 39.30, **Total length** 139.00, **No./teeth** 10
*8 holes.*

## 135883 Drive

**Replacing:** 6211-700B
**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F515, 1320G027, 1320G515
**ID** 15.50, **OD** 39.45, **Total length** 139.00, **Splines A** 3, **No./teeth** 10
*12 holes.*

## 136158 Drive

**Replacing:** 6211-375Z
**ID** 15.50, **OD** 39.35, **Total length** 139.00, **Splines A** 3, **No./teeth** 11
*10 holes.*

## 138358 Drive

**Replacing:** 6211-700W, 6211-700V
**Servicing:** 1321G702, 1327020, 1327030, 1327430, 1327440, 1327471, 1327620, 1327A020, 1327A620, CA45G24-72, S11512-3M, S11512-4M
**ID** 15.50, **OD** 39.70, **Total length** 139.00, **Splines A** 3, **No./teeth** 10

## 139893# 5★ Drive

**Manufacturer:** Prestolite
**Replacing:** 6211-856
**Servicing:** 1403010, S115HD24-1, S115HD24-2, ZGS002, ZGS003
**ID** 15.50, **OD** 37.90, **Total length** 139.00, **Splines A** 3, **No./teeth** 10
*10 holes.*

## 230096 Drive

**Replacing:** 6211-700Y, 6211-700AL, 6211-700AE
**Servicing:** 1321G929, 1327A691, CA45G24-121, CA45G24-121M, S115A24-30M
**ID** 15.50, **OD** 35.15, **Total length** 138.75, **Splines A** 3, **No./teeth** 9
*12 holes. w/ oil seal.*

## 230098 Drive

**Replacing:** 6211-596V
**Servicing:** 1320G027, 1320G035, 1320G092, 1320G183, 1320G515, 1320G720, 1320G810, 1320G830, 1320G921, 1320G923, 1320G925
**ID** 15.50, **OD** 39.50, **Total length** 139.00, **Splines A** 3, **No./teeth** 10
*8 holes. w/ oil seal.*

## 234798 Drive

**Replacing:** 6211-700E
**Servicing:** 1327460, 1327580, 1327A580, 1327A581, 1327A610, 1327A611, 1327A710, S11524-19, S11524-6, S115A24-19, S115A24-22
**OD** 46.00, **Total length** 139.00, **Splines A** 3, **No./teeth** 12
**Rotation** CR
*12 holes. w/ oil seal.*

## 234803 Drive

**Replacing:** 6211-700AC
**Servicing:** 1327A080, 1327A081, 1327A500, 1327A501, S115A12-11M, S115A24-11M
**OD** 35.00, **Total length** 139.00, **No./teeth** 11
*12 holes. w/ oil seal.*



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## Drive Parts

### Springs

**139721** Spring

**Replacing:** 6211-227A

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027, 1320F183

**OD** 25.00, **Length** 69.00

Pkg. 5

**230326** Spring

**Replacing:** 6211-70A, 6211-70

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F035, 1320F036

**OD** 24.70, **Length** 52.50

**230327** Spring

**Replacing:** 6211-761

**Servicing:** 1327A540, S115A24-11M, S115A24-15M

**OD** 23.60, **Length** 70.00

## Clutches

**130328** Clutch

**Replacing:** 5586-123

## Clutch Parts

### Various

**138391** Clutch Plate Set

**Replacing:** 5549-95

**Servicing:** 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520, 1331670, 1331841

**ID** 32.00,
**OD** 67.90/75.70, **Thickness** 22.30

**138392** Clutch Plate Set

**Replacing:** 5549-96

**Servicing:** 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520, 1331670, 1331841

**ID** 47.00, **OD** 68.58, **Thickness** 1.10

## Brush Gears

### Brush Gear Parts

### Brush Springs

Pkg. 4

**139726** Brush Spring

**Replacing:** 5933-336

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**OD** 10.90, **Length** 10.10

## Brush Sets

**141005** Brush Set

**Replacing:** 6211-548A, 6068-43

**Servicing:** 1320035, 1320036, 1320F035, 1320F036, 1320G036, 1320G927, 1327010, 1327020, 1327030, 1327040, 1327050, 1327471

12 **V**, **Length** 20.00, **Lead length** 49.00, **Height** 20.00, **Thickness** 9.00

**141060** Brush Set

**Replacing:** 6211-548B

**Servicing:** 1327470, 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7, S11524-8

24 **V**, **Length** 20.00, **Lead length** 51.50, **Height** 20.00, **Thickness** 9.00

**ASX144** Brush Set

**Replacing:** 6211-548, 6068-47, 6068-42, 6068-29, 6068-20

**Servicing:** 1321021, 1321032, 1321033, 1321041, 1321112, 1321182, 1321292, 1321352, 1321471, 1321491, 1321531, 1321552, 1321580

24 **V**, **Length** 20.00, **Lead length** 47.00, **Height** 20.00, **Thickness** 9.00

**ASX16-178** Brush Set

**Replacing:** 6068-4, 6068-33

**Servicing:** 1372033, 1373281, 1373360, 1373390, 1373400, 1373404, 1373407, 1382013, 1382014, 1382033, 1382034, 1382052, 1382091

**Length** 26.00, **Lead length** 47.00, **Lead length 2** 36.00, **Height** 14.00, **Thickness** 12.00



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## ASX184 Brush Set

**Replacing:** 6068-10

**Servicing:** 1343021, 1343035, 1343041, 1343051, 1343061, 1343071, 1343113, 1343151, 1343171, 1343181, 1343232, 1343251, 1343271

24 **V**, **Length** 26.00, **Lead length** 50.00, **Height** 20.00, **Thickness** 12.00

## ASX194 Brush Set

**Replacing:** 6068-8, 6068-34, 6068-28, 6068-18, 6068-1

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320035, 1320036, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183

12 **V**, **Length** 26.00, **Lead length** 66.00, **Height** 20.00, **Thickness** 9.00

## ASX74 Brush Set

**Replacing:** 6068-2

**Servicing:** 1332011, 1332022, 1332023, 1332031, 1332071, 1332382, 1332521, 1332814, 1333011, 1333172, 1333181, 1333272, 1333441

24/32 **V**, **Length** 26.00, **Lead length** 54.00, **Height** 20.00, **Thickness** 9.00

# Bushings

## 140154 Bushing

**Replacing:** 6211-235, 5933-44

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320035, 1320036, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183

**ID** 28.30, **OD** 33.00, **Length** 26.35

Pkg. 10

## 140170 Bushing

**Replacing:** 5549-307

**Servicing:** 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520, 1331670, 1331841

**ID** 22.05, **OD** 26.05, **Length** 28.00

**Alternative no.:** B140170

## 140171 Bushing

**Replacing:** 5894-23, 5549-610

**Servicing:** 1330011, 1330032, 1330661, 1330861, 1331041, 1331172, 1331181, 1331371, 1331441, 1331451, 1331520, 1331670, 1331841

**ID** 34.90, **OD** 39.30, **Length** 47.00

Pkg. 10

## 140173 Bushing

**Replacing:** 6211-303, 5933-603

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320035, 1320036, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183

**ID** 15.95, **OD/collar** 23.70, **OD** 19.13, **Length** 18.00, **Height/collar** 1.30

**Alternative no.:** B140173

## 141003 Bushing

**Replacing:** 6400-247

**Servicing:** 1333860, 1343351, 1343B736, 1343B758, 1343B760, 1343B764, 1343B771, 1343C021, 1343C041, 1343C051, 1343C391, 1343C503

**ID** 35.80, **OD** 39.50, **Length** 47.80

Pkg. 10

## 141028 Bushing

**Replacing:** 6211-726

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, S11524-20X, S11524-23, S11524-23X, S11524-7

**ID** 16.00, **OD/collar** 25.40, **OD** 22.30, **Length** 17.05, **Height/collar** 2.50

Pkg. 100

## B140173 Bushing

**Replacing:** 6211-303, 5933-603

**ID** 15.95, **OD/collar** 23.70, **OD** 19.15, **Length** 17.90, **Height/collar** 1.30

**Alternative no.:** 140173

# Bearings

## Needle Bearings

Pkg. 10

## 141039 5★ Needle Bearing

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 15.00, **OD** 21.00, **Height** 14.00

Pkg. 10

## 141042# Axial needle Bearing

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 15.00, **OD** 28.00, **Height** 2.00



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## Repair Kits

**130850** Repair Kit

**Replacing:** 6010-127, 521

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

## Sundry Parts

### Oil Seals

Pkg. 5

**132981** Oil Seal

**Replacing:** 5933-906

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F035, 1320F036

**ID** 28.00, **OD** 35.00, **Height** 3.10

**139389** Oil Seal

**Replacing:** 5586-224

**Servicing:** BS612L-M87, BS624J-100, BS624J-113, BS624J-99, BS624J-K112, BS624J-K127M, BS624J-K128, BS624J-K129M, BS624J-K131

**ID** 33.50, **OD** 52.60, **Height** 6.00

Pkg. 5

**139618** Oil Seal

**Replacing:** 6211-391

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027, 1320F183

**ID** 28.50, **OD** 44.50, **Height** 5.00

**230097** Oil Seal

**Replacing:** 6211-221

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, CA45D12-18, CA45D12-83, CA45D12-93, CA45D24-79, CA45D24-84

**ID** 16.00, **OD** 24.50, **Height** 5.00

Pkg. 5

**230335** Oil Seal

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 30.00, **OD** 37.00, **Height** 4.00

Pkg. 5

**230367** Oil Seal

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 30.00, **OD** 37.00, **Height** 4.00

### O-rings

Pkg. 10

**138751#** O-ring

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 12.00, **Thickness** 2.50

Pkg. 10

**230376** O-ring

**Replacing:** 5855-30DV

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X

**ID** 12.20, **Thickness** 1.80

Pkg. 10

**230377** O-ring

**Replacing:** 6211-675B

**Servicing:** 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7X

**ID** 7.70, **Thickness** 1.80

Pkg. 10

**230378** O-ring

**Replacing:** 6211-675D

**Servicing:** 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-8, S115A12-1

**ID** 3.70, **Thickness** 1.80

Pkg. 10

**230379** O-ring

**Replacing:** 6211-675E

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X

**ID** 5.50, **Thickness** 2.40



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Pkg. 10

## 230381 O-ring

**Replacing:** 6211-675H

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, 1327470, 1327471, 1327480, 1327591, 1327620, 1327621

**ID** 10.00, **Thickness** 3.00

*Terminal (B+): HC-CARGO 139713.*

Pkg. 10

## 233599 O-ring

**Servicing:** 1403010, S115HD24-2, ZGS002, ZGS003

**ID** 9.60, **Thickness** 1.78, **Material** Rubber

Pkg. 10

## 238300 O-ring

**Servicing:** 1327470, 1327471, S11524-7, S11524-7X

**ID** 105.00, **Thickness** 5.00, **Material** Rubber

### Various

## 130852 Resistor

**Replacing:** 6211-46A

**Servicing:** 1320015, 1320023, 1320027, 1320028, 1320029, 1320045, 1320075, 1320092, 1320142, 1320161, 1320183, 1320502, 1320510

**ID/mount. hole** 6.50, **Length** 286.40, **Width** 23.80

*12 V.*

Pkg. 10

## 132982 Plug

**Replacing:** 5933-83

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**OD** 26.00, **Height** 1.85

## 138784 Resistor

**Replacing:** 6211-526, 6211-203

**Servicing:** 1321032, 1321033, 1321112, 1321292, 1321352, 1321491, 1321552, 1321580, 1321600, 1321780, 1321F032, 1321F033, 1321F112

**ID/mount. hole** 6.40, **Length** 291.90, **Width** 23.30

*24 V. Insulated return.*

## 139662 Resistor

**Replacing:** 6211-175A

**Servicing:** 1320035, 1320036, 1320294, 1320352, 1320552, 1320601, 1320F035, 1320F036, 1320F114, 1320F294, 1320F352, 1320F552

**ID/mount. hole** 6.40, **Length** 260.25, **Width** 24.15

*12 V. Insulated return.*

Pkg. 4

## 139708 Connection

**Replacing:** 6211-961

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, 1327470, 1327471, 1327A620, 1403010, CA45D12-18, CA45D12-83

## 139713 Terminal Bolt

**Replacing:** 6510-4, 6510-3, 6211-678

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F513, 1320F515, 1320G027

**Total length** 50.70, **Thread length** 24.80, **Thread size** M8

*Nut: HC-CARGO 139714.*

Pkg. 5

## 139714 Nut

**Replacing:** NU11-5T1

**Servicing:** 1327470, 1327480, 1327591, 1327620, 1327621, 1327A470, S11524-20X, S11524-23, S11524-23X, S11524-7, S11524-8, S115A12-1

**Thread** M8, **OD** 12.85, **Lock nut** No

## 139715 Collar

**Replacing:** 6211-372

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027, 1320F183

**ID** 31.00, **OD** 34.10, **Height** 16.30

## 139716 Spring

**Replacing:** 6211-437

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, 1327470, 1327471, 1327480, 1327591, 1327620, 1327621

**OD** 29.55, **Length** 21.00



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## 139717 Washer

**Replacing:** 5936-456

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X

**ID** 22.15, **OD** 32.30, **Thickness** 0.25, **Material** Steel

Pkg. 5

## 139718 Washer

**Replacing:** 6211-600

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X

**ID** 22.35, **OD** 44.60, **Thickness** 2.65, **Material** Fiber

Pkg. 10

## 139720 Cover

**Replacing:** 6265-703

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F513, 1320F515, 1320G027

**ID** 21.10, **OD** 28.55, **Height** 28.45

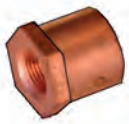
Pkg. 10

## 139722 Thrust Washer

**Replacing:** 6265-705, 5936-264

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**ID** 20.60, **OD** 24.85, **Thickness** 0.70, **Material** Steel



## 139723 Nut

**Replacing:** 5330-525

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470

**Thread** M12, **OD** 22.00, **Lock nut** No

Pkg. 4

## 139725 Screw

**Replacing:** 5333-190

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**Thread** M10, **Total length** 17.25, **Thread length** 12.30

## 139727 Retaining Pad

**Replacing:** 6211-369

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

Pkg. 10

## 139728 Spring

**Replacing:** 6211-385

**Servicing:** 1320183, 1320D183, 1320F183, 1320G183, 1320G830, 1320H830, 1327470, 1403010, CA45012-Y95M, CA45D12-1, CA45D12-14

**OD** 1.50, **Length** 73.00

Pkg. 2

## 139729 Screw

**Replacing:** 5335-774

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**Thread** M5, **Total length** 15.55, **Thread length** 11.85

## 139730 Screw

**Replacing:** NS85-8Z1

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320510, 1320513, 1320515, 1320F022, 1320F027, 1320F035, 1320F036

**Thread** 1/4 " BSF, **Total length** 18.75, **Thread length** 15.60

Pkg. 10

## 230099 Spring

**Replacing:** 5933-509

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**OD** 7.00, **Length** 43.00

Pkg. 5

## 230346 Gasket

**Replacing:** 6211-660

**Servicing:** 1327470, 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X

**ID** 101.80, **OD** 105.50, **Thickness** 4.95



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#Available while stock last, * Program development.

## 230348 Outer Sleeve

**Replacing:** 6211-858A

**Servicing:** 1403010, S114HD24-2, S115HD24-2, ZGS002, ZGS003

**ID** 18.00, **OD** 25.75, **Height** 31.00

Pkg. 10

## 230368 Steel Ball

**Replacing:** NC7-17

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**OD** 4.80 (3/16"), **Material** Steel

Pkg. 10

## 230369 Steel Ball

**Replacing:** NC7-7

**Servicing:** 1320015, 1320023, 1320027, 1320029, 1320035, 1320036, 1320183, 1320510, 1320513, 1320515, 1320D183, 1320F022, 1320F027

**OD** 7.90 (5/16"), **Material** Steel

Pkg. 10

## 230434 Terminal Bolt

**Replacing:** 6211-819A

**Servicing:** 1403010, S114HD24-2, S115HD24-2, ZGS002, ZGS003

**Total length** 27.45, **Thread length** 11.45, **Thread size** M6

*Terminal 50.*

## 230437 Resistor

**Replacing:** 6510-79, 6211-841, 6211-447, 6211-134, 6010-246

**Servicing:** 1321021, 1321041, 1321182, 1321471, 1321531, 1321700, 1321F022, 1321F042, 1321F183, 1321F472, 1321F532, 1321F652

**ID/mount. hole** 6.40, **Width** 23.55

*24 V.*

## 230439 Insulator

**Replacing:** 5587-193

**Servicing:** 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S114HD24-2, S11524-20X, S11524-23, S11524-23X, S11524-8

Pkg. 10

## 230441 Washer

**Replacing:** 6510-84

**Servicing:** 1327470, 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7, S11524-8

**OD** 18.00, **Thickness** 1.60

Pkg. 10

## 230445 Insulator

**Replacing:** 5587-183

**Servicing:** 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7X

## 230446 Insulator

**Replacing:** 6211-821

**Servicing:** 1327471, 1327480, 1327591, 1327620, 1327621, 1327A470, 1327A620, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-7X

**ID** 6.30, **OD** 14.95, **Height** 8.00

Pkg. 5

## 232851 Insulator

**Servicing:** 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-8, S115A24-7

**ID** 10.30, **OD** 12.60, **Height** 3.50

Pkg. 10

## 232977 Insulator

**Servicing:** 1327480, 1327591, 1327620, 1327621, 1327A470, 1403010, S11524-20X, S11524-23, S11524-23X, S11524-8, S115A24-7

Pkg. 10

## 234426 Spacer

**Replacing:** 5933-287A, 5933-287

**Servicing:** 1320035, 1320036, 1320F035, 1320F036, 1320G036, CA45012-Y95M, CA4512-3, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16

**ID** 6.50, **OD** 11.20, **Thickness** 6.50



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

## 234427 Rivet

**Replacing:** 5336-287A, 5336-257A, 5336-257

**Servicing:** 1320035, 1320036, 1320F035, 1320F036, 1320G036, CA45012-Y95M, CA4512-3, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16

**OD** 3.80, **OD/collar** 7.85, **Length** 16.60, **Height/collar** 1.35, **Collar** w/

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Pkg. 10

## 234428 Insulator

**Replacing:** 5587-117A, 5587-117

**Servicing:** 1320035, 1320036, 1320F035, 1320F036, 1320G036, CA45012-Y95M, CA4512-3, CA45D12-1, CA45D12-14, CA45D12-15, CA45D12-16

**ID** 4.20, **OD** 9.70, **Height** 5.20

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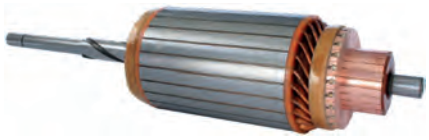
#Available while stock last, * Program development.

## Armatures

### 12 V



**130552** Armature

**Replacing:** 2525283

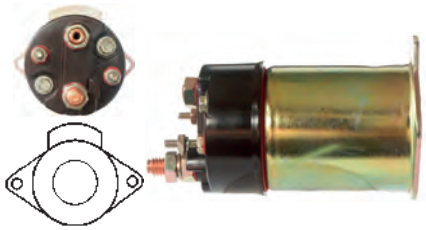
**Servicing:** 35MT, 2098879

12 **V**, **Shaft length** 394.00, **Core thickness** 85.00, **No./splines** 3, **Rotation** CR

*Short shaft.*

## Solenoids

### 12 V



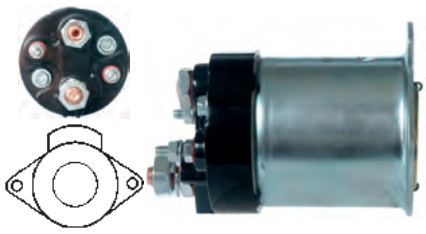
**130499** Solenoid

**Replacing:** 3205022, 3204049, 3202630

**Servicing:** 10MT, 20MT, 25MT, 27MT

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 31.35, **OD** 59.80, **OD/cover** 65.10, **Total length** 122.15, **Coil bolt** 3/8" UNC, **No./terminals** 4

*Cap: HC-CARGO 130497.*



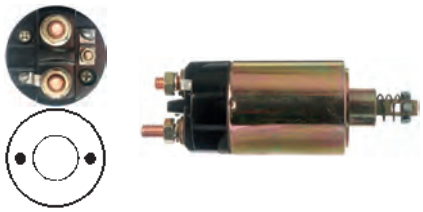
**131590** Solenoid

**Replacing:** 8133925

**Servicing:** 5MT, 22MT

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 28.50, **OD** 59.90, **OD/cover** 65.55, **Total length** 105.25, **Height/B+** 14.50, **Width/kl. 15a** 10.00, **Width/kl. 50** 10.00, **Coil bolt** 3/8" UNC, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 137809.*

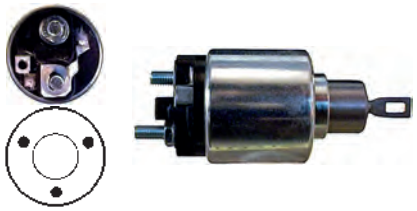


**133428** Solenoid

**Replacing:** 5206626, 5006626

12 **V**, **B+** M8, **Kl. 50** M4, **OD** 50.10, **OD/cover** 49.80, **Total length** 142.75, **Height/B+** 16.95, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 12.55, **No./terminals** 3

*Cap: HC-CARGO 133777.*

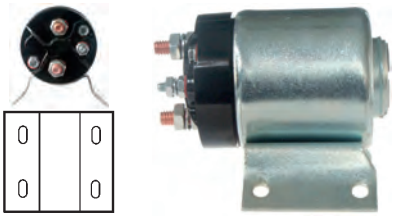


**139212** Solenoid

**Replacing:** 5213077, 5206607

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 27.00, **OD** 56.25, **OD/cover** 49.55, **Total length** 141.30, **Height/B+** 20.75, **Width/kl. 50** 8.45, **Coil bolt** M8, **Coil bolt 2** 11.95, **No./terminals** 3

*Cap: HC-CARGO 138926.*



**232905** Solenoid

**Replacing:** 1889799, 1692659

12 **V**, **B+** M8, **Kl. 50** M4, **ID/cover** 31.95, **OD** 66.40, **OD/cover** 65.90, **Total length** 110.65, **Height/B+** 21.00, **Width/kl. 50** 12.80, **Coil bolt** M8, **Coil bolt 2** 19.75, **No./terminals** 3

## Drives

**130536** Drive

**Replacing:** CH1927, CH1925, CH1922, CH1920, 480428, 4094174, 3755085, 2444658, 2444651, 2095397, 2095122

**Servicing:** 2095397, 2444658

**ID** 12.00, **OD** 33.10, **OD/housing** 46.10, **Total length** 75.20, **Splines A** 6, **No./teeth** 10, **Rotation** CR

**130538** Drive

**Replacing:** 2525287

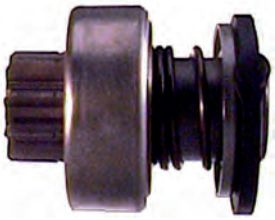
**Servicing:** 30MT

**ID** 14.30, **OD** 39.85, **OD/housing** 60.00, **Total length** 96.15, **Splines A** 3, **No./teeth** 10, **Rotation** CR

**131220** Drive

**Replacing:** 4091920

**ID** 12.00, **OD** 33.00, **OD/housing** 46.70, **Total length** 76.10, **Splines A** 6, **No./teeth** 10, **Rotation** CR



**136888** Drive

**Replacing:** 5234382

**ID** 11.00, **OD** 25.35, **OD/housing** 46.25, **Total length** 58.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## Planet Gears

**237015** Planet Gear

**Servicing:** 56041013

**Total length** 105.00, **No./splines** 8, **No./teeth** 10

*Drive only: HC-CARGO 137643.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

## Brush Gears

**131413** Brush Gear
**Replacing:** 2095219
**Servicing:** 4091950
**OD** 89.50

## Brush Gear Parts

### Brush Springs

Pkg. 10

**132741** Brush Spring
**Replacing:** 2084666
**Servicing:** 4½" DD, 2095150, 2098500
**OD** 15.65, **Length** 30.80

## Brush Sets

**CHX101P** Brush Set
**Replacing:** CHX101P, 2275550, 2275249, 2095145, 2095137
**Servicing:** 2089500, 2095150, 2098100, 2875560, 3656575, 3755900, 4091975
**Length** 13.00, **Lead length** 125.00, **Lead length 2** 34.00, **Height** 17.60, **Thickness** 8.80

## Bushings

Pkg. 5

**140186** Bushing
**Replacing:** 2098986, 2095410
**ID** 11.99, **OD** 15.11, **Length** 18.67

Pkg. 5

**140187** Bushing
**Replacing:** CH1414, 3874817, 3656382, 3556382
**ID** 11.97, **OD** 15.24, **Length** 19.05

Pkg. 5

**140194** Bushing
**Replacing:** CH1411, 2098987
**ID** 17.53, **OD** 20.65, **Length** 16.75

## Sundry Parts

### Various

Pkg. 10

**233667** Nut
**Servicing:** 2875560, 3656575, 3755900, 4091975
**Thread** 10.00-24.00, **OD** 5/16", **Lock nut** Yes



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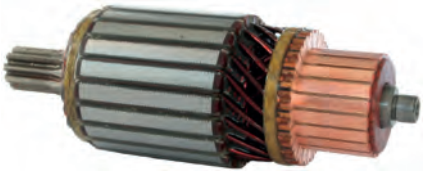
#Available while stock last, * Program development.

## Armatures

### 12 V



**132796** Armature

**Replacing:** 028200-4540, 028200-2120, 028200-1531, 021200-2120

**Servicing:** 028000-4540, 028000-4550, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000, 028000-6001, 028000-6030

12 **V**, 0.9/1/1.2 **kW**, **Shaft length** 135.00, **Core thickness** 47.00, **No./teeth** 9, **Rotation** CR

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**132869** Armature

**Replacing:** 028200-6230, 028200-6220, 028200-1900, 028200-1780

**Servicing:** 028000-5000, 028000-5541, 028000-5542, 028000-5543, 028000-5560, 028000-5561, 028000-5581, 028000-5660, 028000-5661

12 **V**, 2.5 **kW**, **Shaft length** 187.00, **Core thickness** 60.05, **No./teeth** 9, **Rotation** CR/ACR
*w/ bearing.*

---

**133389** Armature

**Replacing:** 028200-1820

**Servicing:** 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6050, 028000-6380, 028000-6381

12 **V**, 0.8 **kW**, **Shaft length** 226.10, **Core thickness** 59.90, **No./splines** 10, **Rotation** CR

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**133713** 5★ Armature

**Manufacturer:** Denso

**Replacing:** 028200-5920, 028200-5901, 028200-5510, 028200-2470

**Servicing:** 028000-8411, 028000-9133, 028000-9872, 028000-9880, 028000-9882, 028000-9883, 128000-0080, 128000-1431, 128000-2950

12 **V**, 0.6 **kW**, **Shaft length** 189.00, **Core thickness** 47.95, **No./splines** 6, **Rotation** ACR

---

**134368** Armature

**Replacing:** 028200-1511, 028200-1313

**Servicing:** 028000-3641, 028000-3642, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4512, 028000-4990, 028000-5060

12 **V**, 1.4 **kW**, **Shaft length** 160.00, **Core thickness** 48.55, **No./splines** 19, **Rotation** CR/ACR

---

**134369** Armature

**Replacing:** 028200-7430, 028200-2140

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373, 028000-7660

12 **V**, 2 **kW**, **Shaft length** 166.00, **Core thickness** 50.45, **No./splines** 19, **Rotation** CR/ACR

---

**134370** Armature

**Replacing:** 028200-5370, 028200-2320

**Servicing:** 028000-5730, 028000-5800, 028000-7700, 028000-8390, 028000-8620, 028000-8980, 028000-9270, 028000-9320, 028000-9321

12 **V**, 1.4/1.6 **kW**, **Shaft length** 147.90, **Core thickness** 50.20, **No./splines** 19, **Rotation** CR/ACR

---

**135824** Armature

**Replacing:** 028200-2010

**Servicing:** 028000-3730, 028000-6520, 028000-7280, 028000-7290, 028000-7440, 028000-7490, 028000-7500, 028000-7630, 028000-7720

12 **V**, 0.8/0.9 **kW**, **Shaft length** 226.00, **Core thickness** 59.90, **No./splines** 10, **Rotation** ACR

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**135853** Armature

**Replacing:** 028200-6240, 028200-2290, 028200-1261, 028200-1260

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3970, 028000-3971, 028000-4930, 028000-5040, 028000-5960

12 **V**, 4 **kW**, **Shaft length** 396.00, **Core thickness** 84.00, **No./splines** 4

---

**136862** Armature

**Replacing:** 028200-5340, 028200-5210

**Servicing:** 128000-2621, 128000-2800, 128000-2980, 128000-3250, 128000-3251, 128000-3651, 128000-3662, 128000-4030, 128000-4031

12 **V**, 0.6 **kW**, **Shaft length** 197.00, **Core thickness** 50.40, **No./splines** 10, **Rotation** ACR

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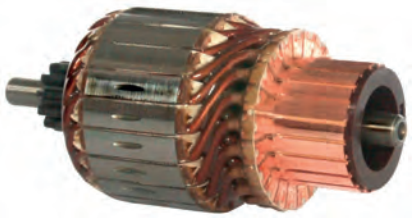


## 136884 5★ Armature

**Manufacturer:** Denso

**Replacing:** 028200-5871

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341

12 **V**, 0.8 **kW**, **Shaft length** 100.90, **Core thickness** 44.92, **No./teeth** 11

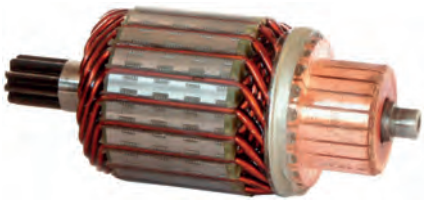
## 136896 Armature

**Replacing:** 028200-6250

**Servicing:** 128000-7002, 128000-7140, 128000-7390, 128000-7500, 128000-8030, 128000-8210, 128000-8320, 128000-8321, 128000-8322

12 **V**, 1.4 **kW**, **Shaft length** 128.65, **Core thickness** 49.25, **No./teeth** 9

**Alternative no.:** F032136896

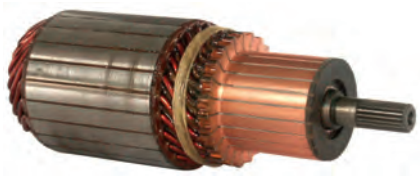


## 137953 Armature

**Replacing:** 028200-6260

**Servicing:** 128000-7010, 128000-7122, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714, 128000-8220

12 **V**, 1.2 **kW**, **Shaft length** 118.10, **Core thickness** 49.50, **No./teeth** 9, **Rotation** CR/ACR



## 137978 Armature

**Replacing:** 028200-7440, 028200-6850, 028200-5040, 028200-1890

**Servicing:** 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560, 228000-0200, 228000-0390

12 **V**, 2.2 **kW**, **Shaft length** 167.45, **Core thickness** 54.20, **No./teeth** 19, **Rotation** CR

## 138383 Armature

**Replacing:** 028200-0910

**Servicing:** 028000-0197, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975, 028000-1976

12 **V**, 0.6 **kW**, **Shaft length** 245.00, **Core thickness** 60.00, **No./splines** 10

## 138757# 5★ Armature

**Manufacturer:** Denso

**Replacing:** 028200-1151, 028200-1150

**Servicing:** 028000-4790, 028000-4840, 028000-5350, 028000-5720, 028000-6070, 028000-6330, 028000-6510, 028000-6511, 028000-7270

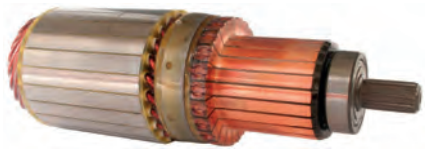
12 **V**, 0.8 **kW**, **Shaft length** 226.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** ACR

## 139148 Armature

**Replacing:** 028200-6860

**Servicing:** 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690

12 **V**, 2 **kW**, **Shaft length** 159.60, **Core thickness** 50.60, **No./teeth** 21



## 139701 Armature

**Replacing:** 028200-2800

**Servicing:** 128000-0490, 128000-0491, 128000-2470, 128000-3361, 128000-4220, 128000-4910, 128000-5370, 128000-5510, 128000-5610

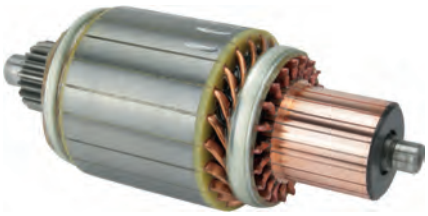
12 **V**, 3 **kW**, **Shaft length** 210.50, **Core thickness** 64.80, **No./splines** 18, **Rotation** CR

## 233812 Armature

**Replacing:** 028200-6880

**Servicing:** 228000-4960, 228000-4961, 228000-5382

12 **V**, 1.8 **kW**, **Shaft length** 149.60, **Core thickness** 50.50, **No./teeth** 21, **Rotation** CR/ACR



## 233960 Armature

**Replacing:** 028200-8330

**Servicing:** 39MT, 428000-0120, 428000-1210, 428000-1211, 428000-1220, 428000-1221

12 **V**, 6.2 **kW**, **Shaft length** 197.20, **Core thickness** 76.20, **No./teeth** 20

*Gear reduction.*



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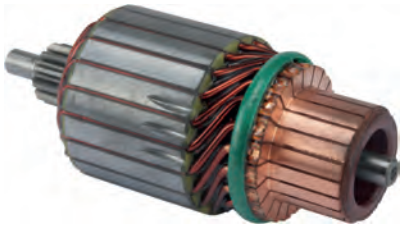
#Available while stock last, * Program development.



## 236958 Armature

**Replacing:** 028200-5991

**Servicing:** 128000-6210, 128000-6211, 128000-6212, 128000-7400, 128000-8870, 128000-8871, 128000-8880, 128000-8881, 128000-8970

12 **V**, 1.2 **kW**, **Shaft length** 110.95, **Core thickness** 44.75, **No./teeth** 11, **Rotation** ACR

## 237378 Armature

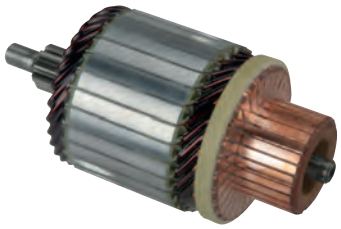
**Servicing:** 428000-0670, 428000-0680, 428000-1750, 428000-7710

12 **V**, 1.4 **kW**, **Shaft length** 101.00, **Core thickness** 50.55, **No./teeth** 9

## 237879 Armature

**Servicing:** 428000-0660, 428000-0720, 428000-1620

12 **V**, 1.9 **kW**, **Shaft length** 136.80, **Core thickness** 48.50, **No./splines** 11, **Rotation** CR



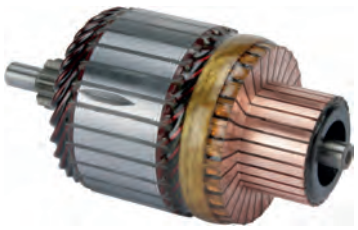
## 238289 Armature

**Servicing:** 428000-0700, 428000-0701

12 **V**, 1.6 **kW**, **Shaft length** 108.50, **Core thickness** 50.50, **No./teeth** 9, **Rotation** ACR

## 238843 Armature

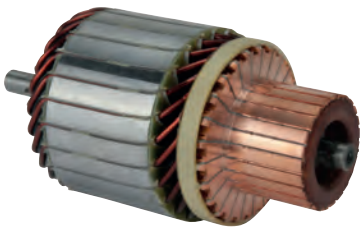
12 **V**, 1 **kW**, **Shaft length** 202.00, **Core thickness** 51.58, **No./splines** 12



## 239078 Armature

**Servicing:** 428000-1640, 428000-1650, 428000-3361, 428000-3370, 428000-3371, 428000-3372

12 **V**, 1.1 **kW**, **Shaft length** 101.33, **Core thickness** 50.60, **No./teeth** 9, **Rotation** CR

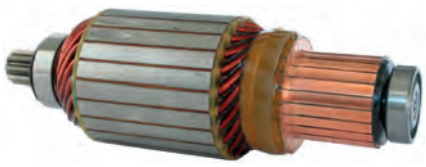


## 332363 Armature

**Servicing:** 428000-4600, 428000-5510, 428000-5511, DSN967

12 **V**, 1.7 **kW**, **Shaft length** 113.33, **Core thickness** 52.75, **No./splines** 11, **Rotation** CR

### 24 V



## 132553 Armature

**Replacing:** 27160-77090, 028200-2230, 028200-1590

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5550

24 **V**, 4.5 **kW**, **Shaft length** 187.00, **Core thickness** 59.95, **No./splines** 9, **No./teeth** 9, **Rotation** CR/ACR

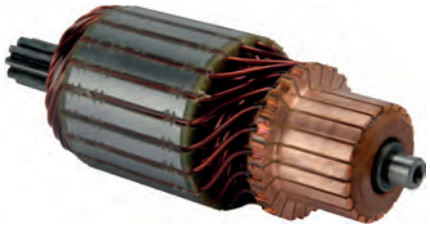
**Alternative no.:** F032132553

## 138675 Armature

**Replacing:** 028200-5250

**Servicing:** 128000-2450, 128000-2560, 128000-2740, 128000-4250, 128000-4682, 128000-4683, 128000-4684, 128000-4685, 128000-4687

24 **V**, 5.5 **kW**, **Shaft length** 210.50, **Core thickness** 65.00, **No./teeth** 18, **Rotation** CR



## 235827 Armature

**Replacing:** 028200-5050

**Servicing:** 128000-0980, 128000-0981, 128000-5410, 128000-5411

24 **V**, 1.4 **kW**, **Shaft length** 135.40, **Core thickness** 47.00, **No./teeth** 9

## Armature Parts

### Various

## B138977# Commutator

**Bar dist.** 1.90, **Bar cross dist.** 40.75, **ID** 15.45, **ID/bar lane** 33.00, **OD** 56.00, **Bar length** 7.40, **Height/bar** 3.40, **Height/bar lane** 18.75, **Total height** 27.00, **No./bars** 33



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## Yokes w/ magnets

### 12 V

**139436**# 5★ Yoke

**Manufacturer:** Denso

**Replacing:** 028100-4230, 028100-4190, 028100-4090

**Servicing:** 028000-8411, 028000-8422, 028000-9133, 028000-9620, 028000-9622, 028000-9623, 028000-9872, 028000-9880, 028000-9882

12 **V**, 0.6 **kW**, **OD/middle** 68.00, **Length** 88.00, **Brush gear** w/o, **Magnets** w/

## Field Cases

**135102** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-4330, 028100-3990, 028100-3760, 028100-3641, 028100-3492, 028100-3491, 028100-3490

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370

12 **V**, **OD/middle** 76.00, **Length** 113.15, **Brush gear** w/o

*Field coil only: HC-CARGO 235245.*

**135790** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-5540, 028100-5110, 028100-4430, 028100-4360, 028100-3770

**Servicing:** 028000-5730, 028000-7700, 028000-8390, 028000-8620, 028000-8980, 028000-9270, 028000-9320, 028000-9321, 028000-9380

12 **V**, 1.4 **kW**, **OD/middle** 76.00, **Length** 77.15, **Brush gear** w/o

**135802** Field Case

**Replacing:** 028100-5900, 028100-5580, 028100-5140

**Servicing:** 128000-2520, 128000-2621, 128000-2631, 128000-2820, 128000-2980, 128000-3090, 128000-3091, 128000-3250, 128000-3251

12 **V**, 0.6/0.7 **kW**, **OD/middle** 76.00, **Length** 77.00, **Brush gear** w/o

**136885** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-7680, 028100-6010

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341

12 **V**, 0.8 **kW**, **OD/middle** 68.00, **Length** 52.40, **Brush gear** w/o

**136897** Field Case

**Replacing:** 028100-7110, 028100-6710, 028100-6350

**Servicing:** 128000-7002, 128000-7140, 128000-7390, 128000-7500, 128000-8030, 128000-8320, 128000-8321, 128000-8322, 128000-8323

12 **V**, 1.4 **kW**, **OD/middle** 75.80, **Length** 62.60, **Brush gear** w/o

**137350** 5★ Field Case

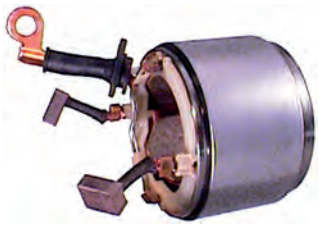
**Manufacturer:** Denso

**Replacing:** 028100-5170, 028100-3751, 028100-3750, 028100-2751

**Servicing:** 028000-4540, 028000-4550, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000, 028000-6001, 028000-6030

12 **V**, 0.9/1 **kW**, **OD/middle** 68.00, **Length** 53.00, **Brush gear** w/o

*Brush set: HC-CARGO 140396.*



**137954** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-7230, 028100-6280, 028100-6200

**Servicing:** 128000-7010, 128000-7122, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714, 128000-8220

12 **V**, 1 **kW**, **OD/middle** 76.00, **Length** 55.00, **Brush gear** w/o

**137977** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-6130

**Servicing:** 128000-5350, 128000-5760, 128000-9560, 228000-0200, 228000-0460, 228000-0880, 228000-1690, 228000-1780, 228000-1850

12 **V**, 2.2 **kW**, **OD/middle** 83.00, **Length** 117.00, **Brush gear** w/o



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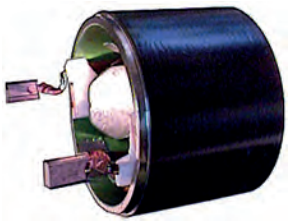
#Available while stock last, * Program development.



**138355** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-8190, 028100-4390, 028100-4040, 028100-3100

**Servicing:** 028000-5334, 028000-5335, 028000-6380, 028000-6381, 028000-6382, 028000-6383, 028000-6384, 028000-6385, 028000-6520

12 **V**, 0.8 **kW**, **OD/middle** 91.00, **Length** 72.00, **Brush gear** w/o

**139149** Field Case

**Replacing:** 028100-6970

**Servicing:** 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690

12 **V**, 2 **kW**, **OD/middle** 78.00, **Length** 67.50, **Brush gear** w/o

**139489** Field Case

**Servicing:** 128000-1180, 128000-1181

12 **V**, 1.7 **kW**, **OD/middle** 76.00, **Length** 112.70, **Brush gear** w/o

**230057** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-7750, 028100-6630, 028100-6150

**Servicing:** 128000-6210, 128000-6211, 128000-6212, 128000-7400, 128000-8870, 128000-8871, 128000-8880, 128000-8881, 128000-8970

12 **V**, 1 **kW**, **OD/middle** 68.00, **Length** 62.60, **Brush gear** w/o

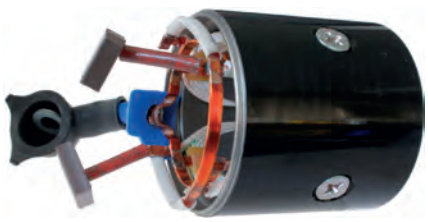
**231732** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-6920

**Servicing:** 228000-1250, 228000-1252, 228000-1260, 228000-3120, 228000-3121, 228000-3430, 228000-4121, 228000-4130, 228000-4131

12 **V**, 0.8 **kW**, **OD/middle** 76.00, **Length** 77.15, **Brush gear** w/o



**235097** 5★ Field Case

**Manufacturer:** Denso

**Replacing:** 028100-7420

**Servicing:** 228000-1770, 228000-1771, 228000-1772, 228000-4930, 228000-5220, 228000-5340, 228000-5341, 228000-5342, 428000-0290

12 **V**, 2.7 **kW**, **OD/middle** 90.38, **Length** 89.57, **Brush gear** w/o

## Field Coils

### 12 V

**135751** Field Coil

**Replacing:** 028110-1910, 028100-3810, 028100-3002, 028100-3001

**Servicing:** 028000-5000, 028000-5490, 028000-5541, 028000-5542, 028000-5543, 028000-5560, 028000-5561, 028000-5581, 028000-5660

12 **V**, 2.5/2.7 **kW**, **Height** 94.40, **Internal height** 58.00, **Inner width** 22.50

### 24 V

**135750** Field Coil

**Replacing:** 028100-6320, 028100-5391, 028100-5390, 028100-3801, 028100-3800, 028100-2882, 028100-2881

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5550

24 **V**, 4.5 **kW**, **Height** 94.00, **Internal height** 61.25, **Inner width** 22.75

**232908** Field Coil

**Replacing:** 028110-5081, 028100-5410

**Servicing:** 128000-2450, 128000-2560, 128000-2740, 128000-4250, 128000-5730, 128000-5731, 128000-5732, 228000-2200, 228000-2470

24 **V**, 5.5 **kW**, **Height** 110.60, **Width** 225.75, **Internal height** 69.85, **Inner width** 22.90

## C.E. Brackets

**136183** C.E. Bracket

**Replacing:** 028501-6890, 028501-0970

**Servicing:** 028000-5300, 028000-5530, 028000-5581, 028000-5620, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864

**138156**# C.E. Bracket

**Replacing:** 028501-1240

**Servicing:** 028000-7700, 028000-9320, 028000-9321, 128000-0130, 128000-0300, 128000-2190, 128000-3190, 128000-5110

## 231311 C.E. Bracket

**Replacing:** 028504-0550

**Servicing:** 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6300, 028000-7560, 028000-8440, 028000-9260, 028000-9261

**ID** 64.50

## 231387 C.E. Bracket

**Replacing:** 028501-6510

**Servicing:** 128000-7010, 128000-7560, 128000-7561, 128000-7562, 128000-8350, 128000-8360, 128000-9730, 128000-9740, 228000-0440

**ID** 72.00

## 231483 C.E. Bracket

**Replacing:** 028501-6600

**Servicing:** 128000-7140, 128000-7141, 128000-8110, 128000-8111, 128000-8210, 128000-9870, 128000-9871, 128000-9872, 228000-1021

## 231529 C.E. Bracket

**Replacing:** 028501-7200, 028501-6490, 028401-6490

**Servicing:** 128000-8320, 128000-8321, 128000-8322, 128000-8323, 128000-9870, 228000-0990, 228000-0991, 228000-1000, 228000-1020

**ID** 72.00, **Double isolation** w/o

## 231600 C.E. Bracket

**Replacing:** 028501-7650

**Servicing:** 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690

**ID** 74.00

## 231601 C.E. Bracket

**Replacing:** 028504-1140

**Servicing:** 028000-6960, 028000-6961, 028000-6962, 028000-7600, 028000-7620, 028000-7621, 028000-8050, 028000-8430, 028000-8580

**ID** 65.00

## 233547 C.E. Bracket

**Replacing:** 028501-7130

**Servicing:** 128000-7140, 128000-9860, 128000-9880, 228000-1160, 228000-1900, 228000-3620, 228000-3621, 228000-3622, 228000-3630

**ID** 72.00

## 233551 C.E. Bracket

**Replacing:** 028500-7340, 028500-7250, 028500-5700, 028500-5660

**Servicing:** 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211, 128000-6212, 128000-6420

**ID** 64.00

## 235032 C.E. Bracket

**Servicing:** 228000-7220

**ID** 73.60

## 235202 C.E. Bracket

**Servicing:** 228000-9540

## 235287 C.E. Bracket

**Replacing:** 028504-0570

**Servicing:** 028000-6000, 028000-6001, 028000-6962, 028000-7320, 028000-7321, 028000-7390, 028000-7392, 028000-7620, 028000-8290

**ID** 64.94, **Double isolation** w/o

## D.E. Brackets

## 134503 D.E. Bracket

**Replacing:** 128400-0280

**Servicing:** 128000-0280, 128000-0281, 128000-0810, 128000-0910, 128000-2140, 128000-5080, 228000-0210, 228000-0211



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**134510** D.E. Bracket

**Replacing:** 128400-1700

**Servicing:** 128000-1900, 128000-2040, 128000-5630

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**136182** D.E. Bracket

**Replacing:** 128401-1790

**Servicing:** 128000-1790, 128000-3080, 128000-3081, 128000-3082

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**136243** D.E. Bracket

**Replacing:** 028404-6201, 028401-6201

**Servicing:** 028000-5581, 028000-6870, 028000-6871, 028000-6872, 028000-6880, 028000-6881, 028000-6882, 028000-6890, 028000-6891

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**136572**# D.E. Bracket

**Replacing:** 128400-3470

**Servicing:** 128000-3470, 128000-3471, 128000-3472, 128000-5941, 128000-5942

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**136935** D.E. Bracket

**Replacing:** 028401-6331

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791, 028000-7792, 128000-0020

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**137377** D.E. Bracket

**Replacing:** 028401-5811

**Servicing:** 028000-6290, 028000-6291, 028000-6292

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**137448**# D.E. Bracket

**Replacing:** 128401-5350, 128400-5212, 128400-5211

**Servicing:** 128000-5210, 128000-5211, 128000-5350, 128000-9560, 228000-0460, 228000-0550, 228000-0551, 228000-3640, 228000-3641

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**137539** D.E. Bracket

**Replacing:** 128401-1571, 128401-1570, 128400-1571, 128400-1570, 053400-7321

**Servicing:** 128000-1560, 128000-1561, 128000-1570, 128000-1571, 128000-1572, 128000-1573, 128000-1574, 128000-1580, 128000-1581

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**138378**# D.E. Bracket

**Replacing:** 028400-6120

**Servicing:** 028000-9470, 128000-3621

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**139076**# D.E. Bracket

**Replacing:** 128400-8892, 128400-8891, 128400-8890, 128400-8532, 128400-8531, 128400-8530

**Servicing:** 128000-8530, 128000-8531, 128000-8890, 128000-8891, 228000-4020, 228000-4030, 228000-6730, 228000-6740, 228000-6750

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**139782**# D.E. Bracket

**Replacing:** 128400-9710

**Servicing:** 128000-8400, 128000-9710, 128000-9720, 228000-0420, 228000-0820, 228000-0821, 228000-0822, 228000-0823, 228000-0830

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**230529**# D.E. Bracket

**Replacing:** 128400-1621, 128400-1620

**Servicing:** 128000-1620, 128000-1621, 228000-4310

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**230895**# D.E. Bracket

**Replacing:** 028400-5041, 028400-5040

**Servicing:** 028000-7460, 028000-7461, 028000-7462, 028000-7470, 028000-7471

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**230899**[#] D.E. Bracket

**Replacing:** 128401-8620

**Servicing:** 128000-8620, 128000-8621, 228000-1600, 228000-1601, 228000-1610, 228000-1611, 228000-2030, 228000-2031, 228000-5980

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**230909** D.E. Bracket

**Replacing:** 028400-5320

**Servicing:** 028000-8320, 028000-8321, 128000-3590, 128000-5261, 128000-5410, 128000-9950, 228000-0790, 228000-0791, 228000-0800

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**233552**[#] D.E. Bracket

**Replacing:** 128400-5682

**Servicing:** 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6421, 128000-6422, 228000-0940, 228000-0941

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**234144**[#] D.E. Bracket

**Replacing:** 228401-5020

**Servicing:** 228000-5020, 228000-5021, 228000-5022, 228000-5023

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**234185** D.E. Bracket

**Replacing:** 028403-6310

**Servicing:** 028000-9900, 028000-9901, 028000-9902, 128000-0600

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**234705** D.E. Bracket

**Replacing:** 128400-0050

**Servicing:** 128000-0050

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**234881** D.E. Bracket

**Replacing:** 127400-9730

**Servicing:** 128000-9730, 128000-9740, 228000-4390, 228000-4391, 228000-4392

*Bushing in D.E. bracket: HC-CARGO 140186, 140187, 140194.*

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**234893** D.E. Bracket

**Servicing:** 028000-9270, 128000-1250, 128000-1251

*Bushing in D.E. bracket: HC-CARGO 140186, 140187, 140194.*

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**235033** D.E. Bracket

**Servicing:** 228000-7220

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**235096** D.E. Bracket

**Replacing:** 228400-4930

**Servicing:** 228000-4930, 228000-5340, 228000-5341, 228000-5342, 428000-0290, 428000-3110

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**235186** D.E. Bracket

**Servicing:** 128000-7600, 128000-7601, 128000-7602, 128000-7603, 128000-7604

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**235332** D.E. Bracket

**Replacing:** 228400-3980

**Servicing:** 228000-1180, 228000-3981

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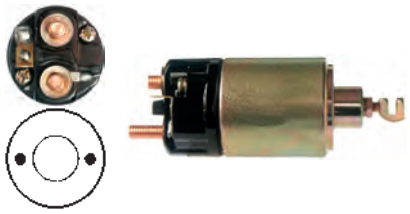
[#]Available while stock last, ***** Program development.

## Solenoids

### 12 V



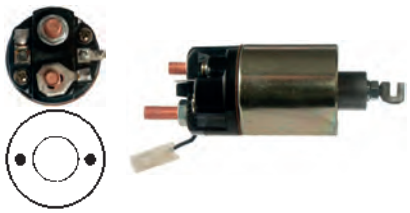
**130814** Solenoid

**Replacing:** 053400-3810, 053400-3720, 053400-3710, 053400-3410, 053400-3350, 053400-3330, 053400-2880

**Servicing:** 028000-0430, 028000-1370, 028000-1850, 028000-1975, 028000-1976, 028000-2001, 028000-2150, 028000-2151, 028000-2240

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.85, **OD/cover** 49.80, **Total length** 137.60, **Height/B+** 18.35, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 8.60, **No./terminals** 3

*Cap: HC-CARGO 134627.*



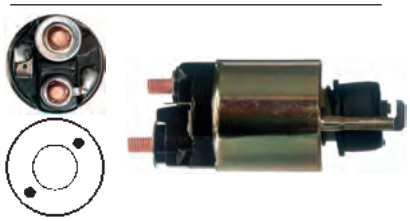
**131084** Solenoid

**Replacing:** 053400-3340, 053400-2557, 053400-2551, 053400-2160, 053400-1831, 053400-1830, 053400-1811

**Servicing:** 028000-1850, 028000-1973, 028000-2000, 028000-2001, 028000-2240, 028000-2241, 028000-2660, 028000-2661, 028000-2662

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.20, **OD/cover** 49.25, **Total length** 141.80, **Height/B+** 23.75, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 10.50, **No./terminals** 4

*Cap: HC-CARGO 131374.*



**131807** Solenoid

**Replacing:** 153400-0860, 053400-7650, 053400-7220, 053400-6550, 053400-6500, 053400-5560, 053400-5240

**Servicing:** 028000-2450, 028000-5200, 028000-5201, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 42.65, **Total length** 123.80, **Height/B+** 12.00, **Width/kl. 50** 14.25, **Coil bolt** M8, **Coil bolt 2** 11.65, **No./terminals** 3

*Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.*

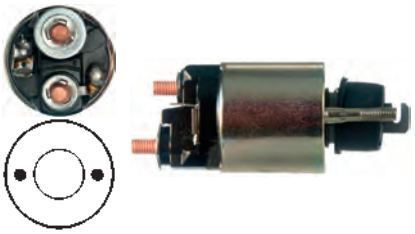
**132641** Solenoid

**Replacing:** 053400-6030, 053400-4530, 053400-3570, 053400-3492, 053400-3491, 053400-3490, 053400-2870

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4930, 028000-5040, 028000-5920

12 **V**, **B+** M10, **OD** 62.85, **OD/cover** 61.60, **Total length** 201.55, **Height/B+** 23.20, **Coil bolt** M10, **Coil bolt 2** 22.20, **No./terminals** 3

*Cap: HC-CARGO 137869.*



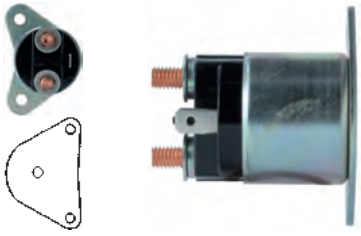
**133675** Solenoid

**Replacing:** 053400-5292, 053400-5290, 053400-5282, 053400-5280

**Servicing:** 028000-8010, 028000-8160, 028000-8460, 028000-8690, 028000-8700, 028000-9100, 128000-0290, 128000-0370, 128000-0670

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 47.65, **Total length** 124.00, **Height/B+** 12.10, **Width/kl. 50** 14.25, **Coil bolt** M8, **Coil bolt 2** 11.75, **No./terminals** 3

*Cap: HC-CARGO 133099.*

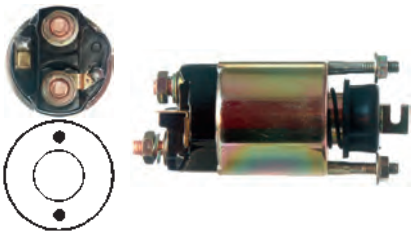


**133711** Solenoid

**Replacing:** 182800-1570, 182800-1210, 182800-1050, 182800-1040, 182800-0930

**Servicing:** 028000-8411, 028000-8422, 028000-9133, 028000-9620, 028000-9622, 028000-9623, 028000-9821, 028000-9880, 028000-9882

12 **V**, **B+** M6, **Kl. 50** 6.30, **OD** 33.80, **OD/cover** 32.55, **Total length** 52.70, **Height/B+** 8.60, **Width/kl. 50** 9.45, **Coil bolt** M6, **Coil bolt 2** 8.40, **No./terminals** 3



**133723** Solenoid

**Replacing:** 053400-8740, 053400-5820, 053400-5150, 053400-5120

**Servicing:** 028000-7280, 028000-7440, 028000-7940, 128000-0090, 128000-0091, 128000-0350, 128000-0351, 128000-0461, 128000-0462

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.00, **OD/cover** 50.15, **Total length** 118.25, **Height/B+** 11.60, **Width/kl. 50** 16.10, **Coil bolt** M8, **Coil bolt 2** 11.95, **No./terminals** 3

*Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.*

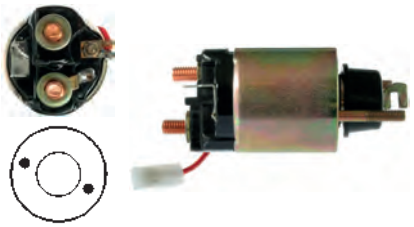
**133809** Solenoid

**Replacing:** 312205-2A20, 153400-0850, 053400-8780, 053400-8730, 053400-8690, 053400-7130

**Servicing:** 128000-2610, 128000-2611, 128000-2680, 128000-2682, 128000-3040, 128000-3090, 128000-3091, 128000-4020, 128000-4230

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.65, **OD/cover** 47.90, **Total length** 114.55, **Height/B+** 13.80, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 10.75, **No./terminals** 3

*Cap: HC-CARGO 133099. Contact Plate: HC-CARGO 135016.*



**134933** Solenoid

**Replacing:** 053400-5251, 053400-5250, 053400-5001, 053400-5000

**Servicing:** 028000-3730, 028000-7520, 028000-7521, 028000-7680, 028000-7681, 028000-8730, 028000-9090, 028000-9091, 028000-9940

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.75, **OD/cover** 50.10, **Total length** 117.80, **Height/B+** 11.10, **Width/kl. 50** 15.75, **Coil bolt** M8, **Coil bolt 2** 12.40, **No./terminals** 4

*Cap: HC-CARGO 134934. Contact Plate: HC-CARGO 135016.*



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#Available while stock last, * Program development.

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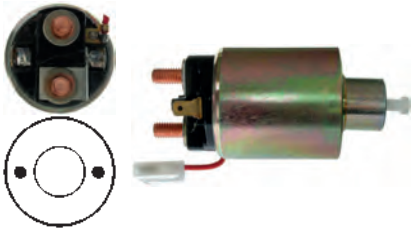


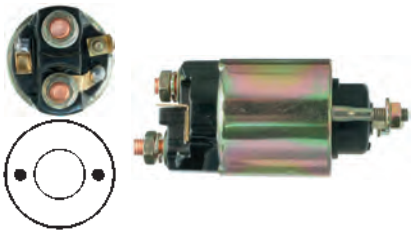
## 135590 Solenoid

**Replacing:** 021200-3251

**Servicing:** 100211-0141, 100211-0142, 100211-0321, 100211-0322

12 **V**, **B+** M8, **Kl. 15a** 6.30, **ID/cover** 25.00, **OD** 52.15, **OD/cover** 45.30, **Total length** 100.90, **Height/B+** 13.60, **Width/kl. 15a** 13.75, **Coil bolt** M8, **Coil bolt 2** 14.15, **No./terminals** 4

*Cap: HC-CARGO 137797.*

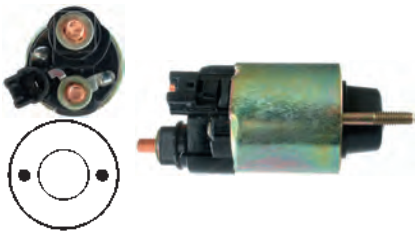


## 135652 Solenoid

**Replacing:** 053400-8510, 053400-7800

**Servicing:** 128000-2621, 128000-2631, 128000-2980, 128000-3662, 128000-4030, 128000-4031, 128000-4040, 128000-4050, 128000-4060

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **OD** 50.80, **OD/cover** 50.00, **Total length** 114.55, **Height/B+** 11.45, **Width/kl. 15a** 10.45, **Width/kl. 50** 16.55, **Coil bolt** M8, **Coil bolt 2** 12.45, **No./terminals** 4



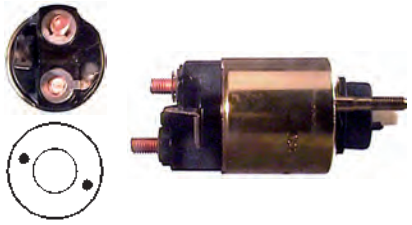
## 136886 Solenoid

**Replacing:** 153400-3750, 153400-1520

**Servicing:** 228000-0940, 228000-0941, 228000-2900, 228000-4020, 228000-4030, 228000-6730, 228000-6740, 228000-6750, 228000-6760

12 **V**, **B+** M8, **OD** 50.00, **OD/cover** 49.90, **Total length** 124.65, **Height/B+** 11.30, **Coil bolt** M8, **Coil bolt 2** 11.10, **No./terminals** 3

*Cap: HC-CARGO 235274.*



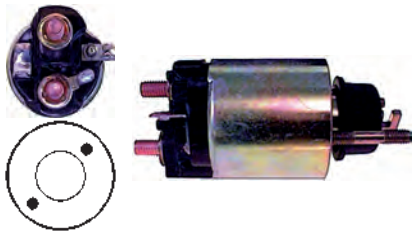
## 138014 Solenoid

**Replacing:** 28150-87512, 053400-8750

**Servicing:** 128000-3662, 228000-4640, 228000-4641, 228000-5480, 228000-5481, 228000-5710, 228000-6430, 228000-7160, 228000-7161

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 42.65, **Total length** 118.35, **Height/B+** 13.10, **Width/kl. 50** 13.50, **Coil bolt** M8, **Coil bolt 2** 11.80, **No./terminals** 3

*Cap: HC-CARGO 133099.*



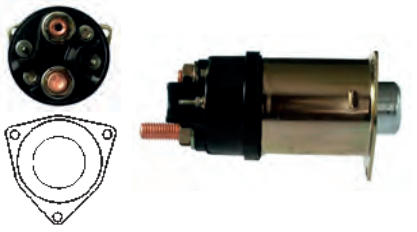
## 138813 Solenoid

**Replacing:** 053400-6090

**Servicing:** 028000-9220, 028000-9221, 128000-1540, 128000-1541

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.60, **OD/cover** 47.75, **Total length** 118.20, **Height/B+** 15.00, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 10.85, **No./terminals** 4

*Cap: HC-CARGO 135090.*



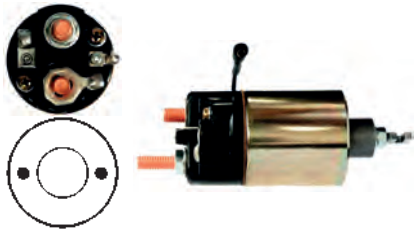
## 231925 Solenoid

**Replacing:** 028300-4030

**Servicing:** 37MT

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.20, **OD** 68.75, **OD/cover** 76.20, **Total length** 179.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 11.00, **No./terminals** 4

*Insulated retun. Cap: HC-CARGO 232038.*



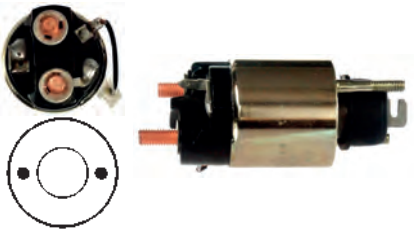
## 231997 Solenoid

**Replacing:** 053400-3370, 053400-3010, 053400-3000, 053400-2250, 053400-2120, 053400-1880, 053400-1870

**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 49.00, **Total length** 141.65, **Height/B+** 24.35, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 11.15, **No./terminals** 3

*Cap: HC-CARGO 232020.*



## 232000 Solenoid

**Replacing:** 053400-4643, 053400-4642, 053400-4640, 053400-4432, 053400-4431, 053400-4430

**Servicing:** 028000-5334, 028000-5335, 028000-6380, 028000-6381, 028000-6382, 028000-6383, 028000-6384, 028000-6385, 028000-6391

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.00, **OD/cover** 47.75, **Total length** 121.55, **Height/B+** 17.15, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 11.30, **No./terminals** 4

## 233951 Solenoid

**Replacing:** 053400-9630, 053400-4810

**Servicing:** 028000-6560, 028000-7430, 028000-7431, 128000-4340, 128000-5330, 128000-5331, 128000-6060, 128000-6070, 128000-6080

12 **V**, **B+** M14, **OD** 63.65, **OD/cover** 63.75, **Total length** 232.80, **Height/B+** 40.00, **Coil bolt** M14, **Coil bolt 2** 28.55, **No./terminals** 4



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#Available while stock last, * Program development.

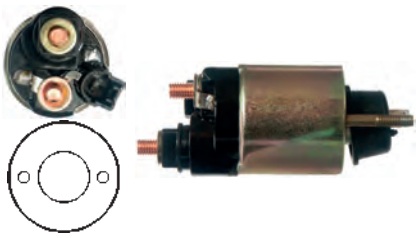
## 233952 Solenoid

**Replacing:** 053400-9891, 053400-9890

**Servicing:** 128000-5970, 128000-7230, 128000-7250, 228000-2360, 228000-2370, 228000-2380, 228000-4600, 228000-4690, 228000-5360

12 **V**, **B+** 1/2", **OD** 62.77, **OD/cover** 63.87, **Total length** 216.70, **Height/B+** 22.72, **Coil bolt** M12, **Coil bolt 2** 14.60, **No./terminals** 4

*Cap: HC-CARGO 233953.*



## 234992 Solenoid

**Replacing:** 153400-1510

**Servicing:** 228000-0550, 228000-0551, 228000-2010, 228000-5960, 228000-5970, 228000-7581, 228000-7583, 228000-7591, 228000-7593

12 **V**, **B+** M8, **OD** 50.80, **OD/cover** 50.70, **Total length** 123.00, **Height/B+** 9.40, **Coil bolt** M8, **Coil bolt 2** 11.35, **No./terminals** 3

*Cap: HC-CARGO 234128. Moving contact: HC-CARGO 135016.*

## 235067 Solenoid

**Replacing:** 153400-4110

**Servicing:** 228000-4890, 228000-4891, 228000-8490

12 **V**, **B+** M8/12.00, **Kl. 50** 6.30, **OD** 50.00, **Total length** 125.50, **Height/B+** M8/12.00, **Width/kl. 50** 6.30, **No./terminals** 3

## 235319 Solenoid

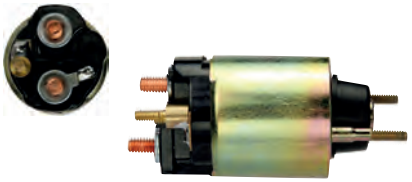
**Servicing:** 128000-2640, 128000-2670, 128000-2790, 128000-3730, 128000-3740, 128000-3741, 128000-8650

12 **V**, **B+** M8, **Kl. 30h** M8, **Kl. 50** M8, **ID/cover** 11.90, **OD** 51.00, **OD/cover** 7.85, **Total length** 117.30, **No./terminals** 3

## 235320 Solenoid

**Servicing:** 128000-8690

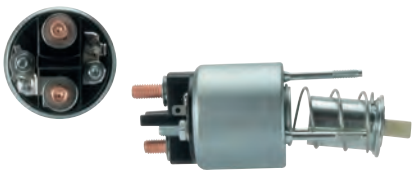
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 50.79, **Total length** 115.68, **Height/B+** 11.67, **Width/kl. 50** 11.17, **Coil bolt** M8, **Coil bolt 2** 11.52, **No./terminals** 3



## 235367 Solenoid

**Servicing:** 128000-4230

12 **V**, **B+** M8, **Kl. 15a** M8, **Kl. 50** M6, **OD** 50.70, **OD/cover** 50.30, **Total length** 113.34, **Height/B+** 60.00, **Width/kl. 15a** 30.00, **Width/kl. 50** 43.00, **Coil bolt** 7.68, **Coil bolt 2** 11.15, **No./terminals** 3



## 237392 Solenoid

**Servicing:** 428000-0670, 428000-1750

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M6, **OD** 54.05, **Total length** 123.40, **Height/B+** 18.00, **Width/kl. 15a** 8.00, **Width/kl. 50** 10.00, **No./terminals** 4

## 237531 Solenoid

**Replacing:** 153400-8403, 028099-9701

**Servicing:** 228000-9900, 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-0550, 428000-0551, 428000-0552

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 48.00, **OD/cover** 46.00, **Total length** 126.50, **Height/B+** 12.80, **Coil bolt** M8, **Coil bolt 2** 10.50, **No./terminals** 3

## 237806 Solenoid

**Replacing:** 153400-7610

**Servicing:** 228000-6680, 228000-9580, 428000-0321

12 **V**, **B+** M8, **OD** 50.80, **Total length** 125.93, **Switch dim.** 12.70, **Height/B+** 11.22, **Width/kl. 50** 6.40, **Coil bolt** M8, **Coil bolt 2** 12.76, **No./terminals** 3

## 237891 Solenoid

**Servicing:** 428000-1620

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **Total length** 119.00, **Height/B+** 14.00, **Width/kl. 50** 10.00, **No./terminals** 3

*Cap: HC-CARGO 237892.*

## 237977 Solenoid

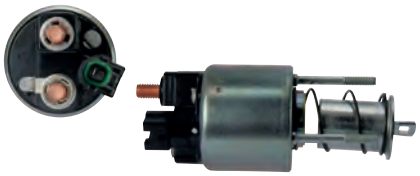
**Servicing:** 428000-0680, 428000-0700, 428000-0701

12 **V**, **B+** M8, **Kl. 50** 5.00, **OD** 54.00, **Total length** 104.00, **Height/B+** 11.25, **Coil bolt** M8, **Coil bolt 2** 9.30, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 237992 Solenoid

**Servicing:** 428000-0720

12 **V**, **B+** M8, **OD** 54.00,
**Total length** 103.50, **Height/B+** 12.00,
**No./terminals** 3

## 238471 Solenoid

**Servicing:** 428000-0950

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.98,
**Total length** 125.40, **Height/B+** 11.00,
**Coil bolt** M8, **Coil bolt 2** 11.00,
**No./terminals** 3
*Solenoid cap can not be replaced.*

## 330430 Solenoid

**Servicing:** 428000-1630

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 53.90,
**Total length** 121.28, **Height/B+** 17.74,
**Width/kl. 50** 13.60, **Coil bolt** M8,
**Coil bolt 2** 10.32

## 330642 Solenoid

**Servicing:** 428000-3180

12 **V**, **B+** M8, **Kl. 50** 4.70,
**ID/cover** 46.19, **OD** 54.07,
**OD/cover** 52.23, **Total length** 120.00,
**Switch dim.** 15.06, **Height/B+** 11.65,
**Coil bolt** M8, **Coil bolt 2** 10.27

## 331918 Solenoid

12 **V**, **B+** M8, **Kl. 50** 6.30,
**OD** 49.90, **Total length** 125.00,
**Height/B+** 12.00, **Coil bolt** M8,
**Coil bolt 2** 11.50, **No./terminals** 3

## 331929 Solenoid

**Servicing:** 228000-9871, 228000-9872

12 **V**, **B+** M8, **Kl. 50** 6.30,
**OD** 49.72, **Total length** 147.47,
**Height/B+** 11.60, **Coil bolt** M8,
**Coil bolt 2** 11.60, **No./terminals** 3

## 332161 Solenoid

**Servicing:** 428000-3410, 428000-5000, 428000-5001, 428000-5280

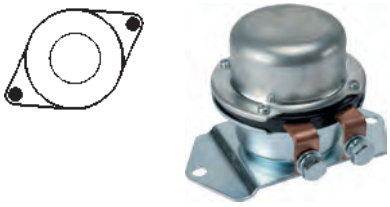
12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 50.00,
**OD/cover** 48.00, **Total length** 146.12,
**Height/B+** 11.35, **Coil bolt** M8,
**Coil bolt 2** 10.00, **No./terminals** 2

## 332477 Solenoid

**Replacing:** 028099-9791

**Servicing:** 428000-0022, 428000-0023, 428000-0024, 428000-0340, 428000-0341

12 **V**, **B+** M8, **Kl. 50** 4.70, **OD** 48.15,
**OD/cover** 46.20, **Switch dim.** 5.10,
**Height/B+** 12.00, **Coil bolt** M8,
**Coil bolt 2** 10.50, **No./terminals** 3



## 333003 Solenoid

**Replacing:** 153400-4401

**Servicing:** 228000-6450

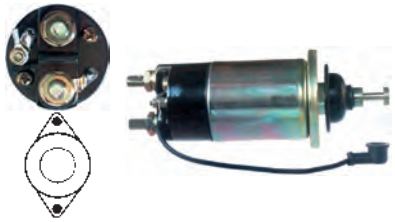
12 **V**, **B+** M8, **OD** 132.00,
**Total length** 86.00, **No./terminals** 3

## 334034 Solenoid

**Servicing:** 428000-5510, 428000-5511, DSN967

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 46.20,
**OD** 50.00, **OD/cover** 48.30,
**Total length** 139.50, **Height/B+** 18.70,
**Coil bolt** M8, **Coil bolt 2** 10.50,
**No./terminals** 3

### 24 V

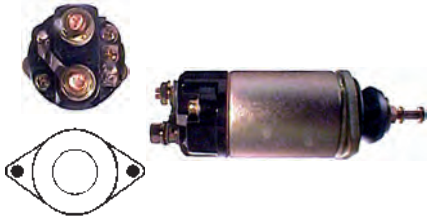


## 134413 Solenoid

**Replacing:** 053400-6050, 053400-3540, 053400-2090, 053400-1680, 053400-1630

**Servicing:** 028000-4130, 028000-4131, 028000-5250, 028000-5251

24 **V**, **B+** M10, **OD** 62.60,
**OD/cover** 61.70, **Total length** 203.85,
**Height/B+** 23.80, **Coil bolt** M10,
**Coil bolt 2** 23.00, **No./terminals** 3
*Cap: HC-CARGO 137869.*



## 137033 Solenoid

**Replacing:** 053400-1900

**Servicing:** 028000-5160

24 **V**, **B+** M8, **OD** 50.00,
**OD/cover** 49.85, **Total length** 163.45,
**Height/B+** 18.45, **Coil bolt** M8,
**Coil bolt 2** 12.15, **No./terminals** 3
*Cap: HC-CARGO 138815.*



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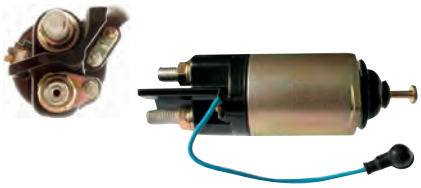
#Available while stock last, * Program development.



## 234876 Solenoid

**Replacing:** 053400-9751, 053400-9750

**Servicing:** 128000-7170, 128000-7172, 128000-7174, 128000-7240, 128000-7520, 228000-4730

24 **V**, **B+** M12, **OD** 63.54, **OD/cover** 64.10, **Total length** 210.00, **Height/B+** 26.79, **Coil bolt** M12, **Coil bolt 2** 16.36, **No./terminals** 4

## Solenoid Assy's

### 12 V

## 137980 Solenoid Assy

**Replacing:** 153400-1291, 153400-1290, 153400-0951, 153400-0950, 153400-0130, 053400-9641, 053400-4212

**Servicing:** 028000-5581, 028000-6870, 028000-6871, 028000-6872, 028000-6880, 028000-6881, 028000-6882, 028000-6890, 028000-6891

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 70.90, **Total length** 141.00, **Height/B+** 16.00, **Width/kl. 50** 10.85, **Coil bolt** M10, **Coil bolt 2** 9.40

## 138183 5★ Solenoid Assy

**Manufacturer:** Denso

**Replacing:** 153400-1640, 153400-1011, 153400-1010, 053400-7140, 053400-4900

**Servicing:** 028000-5900, 028000-6300, 028000-7560, 028000-8220, 028000-9260, 028000-9261, 028000-9720, 128000-1240, 128000-1241

12 **V**, **B+** M8, **OD** 63.50, **Total length** 122.50, **Height/B+** 11.45, **Coil bolt** M8, **Coil bolt 2** 7.90

## 138420 Solenoid Assy

**Replacing:** 053400-9710

**Servicing:** 128000-9380, 228000-0470, 228000-0471, 228000-0472, 228000-0473, 428000-2220

12 **V**, **B+** M8, **OD** 60.25, **Total length** 93.95, **Height/B+** 17.95, **Coil bolt** M8, **Coil bolt 2** 8.15

## 138878# 5★ Solenoid Assy

**Manufacturer:** Denso

**Replacing:** 053400-5361, 053400-5360

**Servicing:** 028000-6000, 028000-6001, 028000-6960, 028000-6961, 028000-6962, 028000-7620, 028000-7621, 028000-8050, 028000-8290

12 **V**, **B+** M8, **OD** 63.50, **Total length** 121.50, **Height/B+** 11.55, **Coil bolt** M8, **Coil bolt 2** 8.00
*w/ solenoid plug.*

## 230561 Solenoid Assy

**Replacing:** 153400-1790, 053400-6121, 053400-6120, 053400-4341, 053400-4340

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791, 128000-0020, 128000-0040

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 63.65, **Total length** 122.00, **Height/B+** 11.50, **Width/kl. 50** 10.40, **Coil bolt** M8, **Coil bolt 2** 8.00

## 230574 Solenoid Assy

**Replacing:** 153400-2320, 053400-7301, 053400-7300, 053400-3470

**Servicing:** 028000-5870, 028000-5871, 028000-6290, 028000-6291, 028000-6292, 028000-8490, 028000-8491, 228000-1610, 228000-1611

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 71.40, **Total length** 142.80, **Height/B+** 16.00, **Width/kl. 50** 10.85, **Coil bolt** M10, **Coil bolt 2** 9.20

## 230576 Solenoid Assy

**Replacing:** 153400-6640, 153400-4040, 153400-2650, 153400-2290, 153400-2080, 153400-1570, 153400-1490

**Servicing:** 028000-5371, 028000-5560, 028000-5561, 028000-6780, 028000-6891, 028000-6893, 028000-8070, 028000-8072, 028000-8340

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 71.45, **Total length** 140.40, **Height/B+** 15.75, **Width/kl. 50** 10.45, **Coil bolt** M10, **Coil bolt 2** 10.00

## 230578 Solenoid Assy

**Replacing:** 153400-2240

**Servicing:** 028000-6250, 128000-9730, 128000-9740, 228000-1070, 228000-4390, 228000-4391, 228000-4392

12 **V**, **B+** M8, **OD** 60.65, **Total length** 94.30, **Height/B+** 11.40, **Coil bolt** M8, **Coil bolt 2** 8.35



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#Available while stock last, * Program development.

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## 230582 Solenoid Assy

**Replacing:** 153400-6520, 153400-2250, 153400-1890, 153400-1880, 153400-1340, 153400-0740

**Servicing:** 128000-7140, 128000-9300, 128000-9520, 228000-0340, 228000-0950, 228000-0980, 228000-0981, 228000-0990, 228000-0991

12 **V**, **B+** M8, **OD** 60.20, **Total length** 94.40, **Height/B+** 11.40, **Coil bolt** M8, **Coil bolt 2** 8.00

## 230583 Solenoid Assy

**Replacing:** 153400-3690

**Servicing:** 228000-2570, 228000-2571, 228000-2572, 228000-2573

12 **V**, **B+** M8, **OD** 60.65, **Total length** 94.00, **Height/B+** 17.00, **Coil bolt** M8, **Coil bolt 2** 5.80

## 230827 Solenoid Assy

**Replacing:** 153400-1400, 153400-1371, 053400-4754, 053400-4753

**Servicing:** 028000-7370, 028000-7372, 028000-7373, 028000-8140, 028000-8141, 028000-8142, 028000-8760, 028000-8761, 028000-8762

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 63.30, **Total length** 122.35, **Height/B+** 13.35, **Width/kl. 50** 10.15, **Coil bolt** M8, **Coil bolt 2** 10.45

## 233703 Solenoid Assy

**Replacing:** 153400-4140, 153400-2230, 153400-0332, 153400-0331

**Servicing:** 128000-8320, 128000-8321, 128000-8322, 128000-8323, 228000-1000, 228000-1020, 228000-1021, 228000-1022, 228000-1040

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 60.00, **Total length** 101.40, **Height/B+** 17.15, **Width/kl. 50** 12.40, **Coil bolt** M8, **Coil bolt 2** 8.80

## 234075 Solenoid Assy

**Replacing:** 153400-2510, 153400-0030

**Servicing:** 128000-7710, 128000-7712, 128000-7713, 128000-7714, 128000-9751, 128000-9752, 228000-2060, 228000-2061, 228000-4000

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 60.75, **Height/B+** 11.90, **Coil bolt** M8, **Coil bolt 2** 7.65

## 234143 5★ Solenoid Assy

**Manufacturer:** Denso

**Replacing:** 153400-4293, 153400-4292, 153400-4291

**Servicing:** 228000-5020, 228000-5021, 228000-5022, 228000-5023

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 62.30, **Total length** 121.40, **Height/B+** 11.55, **Coil bolt** M8, **Coil bolt 2** 7.85

## 234419 Solenoid Assy

**Replacing:** 153400-3831

**Servicing:** 228000-1180, 228000-3981, 228000-4960, 228000-4961, 228000-7220

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 62.00, **Total length** 94.60, **Height/B+** 11.40, **Width/kl. 50** 11.85, **Coil bolt** M8, **Coil bolt 2** 8.30, **Seconds** 1.8

## 234661 5★ Solenoid Assy

**Manufacturer:** Denso

**Replacing:** 053400-8160, 053400-6380, 053400-0903

**Servicing:** 028000-8620, 028000-9860, 128000-0050, 128000-0170, 128000-0171, 128000-5850, 128000-6640, 128000-8070, 128000-8200

12 **V**, **B+** M8, **OD** 62.75, **Total length** 121.25, **Height/B+** 10.75, **Coil bolt** M8, **Coil bolt 2** 7.80

## 234915# Solenoid Assy

**Replacing:** 153400-3980, 153400-1821

**Servicing:** 228000-0820, 228000-0821, 228000-0822, 228000-0823, 228000-0830, 228000-0831, 228000-0832, 228000-2500

12 **V**

## 234960 Solenoid Assy

**Replacing:** 153400-2540

**Servicing:** 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690, 228000-8150

12 **V**



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#Available while stock last, * Program development.

**235098** 5★ Solenoid Assy

**Manufacturer:** Denso

**Replacing:** 153400-4532, 153400-4531

**Servicing:** 228000-4930, 228000-5340, 228000-5341, 228000-5342, 428000-0290, 428000-3110

12 **V**

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**235859** Solenoid Assy

**Replacing:** 153400-2430

**Servicing:** 228000-1830, 228000-1832

24 **V**, **B+** M8, **Kl. 50** M4S, **Total length** 159.00, **Height/B+** 15.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **No./terminals** 1

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**330847** Solenoid Assy

**Servicing:** 228000-7800, 228000-7801

12 **V**, **B+** M8, **Kl. 50** 6.30, **Total length** 94.00, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3

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**335049** Solenoid Assy

**Replacing:** 153400-9040

**Servicing:** 428000-2650

12 **V**, **B+** M8, **OD** 123.00, **Total length** 144.00, **Coil bolt** M8, **No./terminals** 3

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## 24 V

**137566** Solenoid Assy

**Replacing:** 153400-2310, 153400-1321, 153400-1320, 153400-0540, 053400-9571, 053400-9570, 053400-9500

**Servicing:** 028000-5300, 028000-5301, 028000-5530, 028000-5531, 028000-5532, 028000-5550, 028000-5551, 028000-5552, 028000-5553

24 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 71.35, **Total length** 141.80, **Height/B+** 15.30, **Width/kl. 50** 10.55, **Coil bolt** M10, **Coil bolt 2** 8.00

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**137567** Solenoid Assy

**Replacing:** 053400-9240, 053400-4770, 053400-4730, 053400-4610, 053400-4202, 053400-4201, 053400-4200

**Servicing:** 028000-4800, 028000-5570, 028000-5571, 028000-5651, 028000-5652, 028000-5840, 028000-5841, 028000-5860, 028000-5861

24 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 71.40, **Total length** 141.90, **Height/B+** 16.30, **Width/kl. 50** 10.15, **Coil bolt** M10, **Coil bolt 2** 10.25

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**137568** Solenoid Assy

**Replacing:** 053400-7311, 053400-7310

**Servicing:** 128000-1570, 128000-1571, 128000-1572, 128000-1573, 128000-1574, 128000-6170, 128000-6171, 128000-6172, 128000-6173

24 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 71.35, **Total length** 141.55, **Height/B+** 16.15, **Width/kl. 50** 9.70, **Coil bolt** M10, **Coil bolt 2** 10.45

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**233453** Solenoid Assy

**Servicing:** 228000-7550, 228000-7551

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 71.00

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**233454** Solenoid Assy

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 72.00, **Total length** 142.50, **Height/B+** 17.75, **Coil bolt** M10, **Coil bolt 2** 10.10

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**234681** Solenoid Assy

**Replacing:** 053400-9412, 053400-9411, 053400-9410

**Servicing:** 128000-5730, 128000-5731, 128000-5732, 128000-5733

24 **V**, **B+** M12, **Kl. 50** 9.40, **Height/B+** 20.80, **Width/kl. 50** 10.65

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## Safety Switches

### 24 V

**230386** Safety Switch

**Replacing:** 182800-3140, 128800-3140

24 **V**, **OD** 33.65, **OD/cover** 31.45, **Total length** 51.80

**Alternative no.:** 333281 5★

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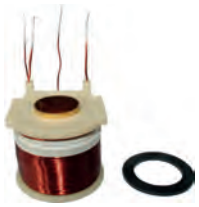
**333281** 5★ Safety switch
**Manufacturer:** Bosch
**Replacing:** 182800-3140, 128800-3140
24 **V**, **OD** 33.65, **OD/cover** 31.45,
**Total length** 51.80
**Alternative no.:** 230386

## Solenoid Parts

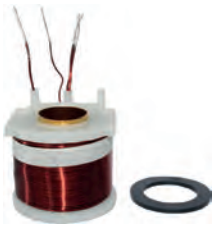
### Coils



**132706** Solenoid Coil
**Servicing:** 228000-5650, 228000-5651, 228000-5652
12 **V**, **ID** 20.90, **OD** 46.75
*Double wire on left side. Single wire on right side.*

**132707** Solenoid Coil
12 **V**, **ID** 21.15, **OD** 46.10
*Single wire on left side. Double wire on right side.*

**132708** Solenoid Coil
**Servicing:** 028000-5910, 028000-5911, 028000-5912, 028000-6300, 028000-7830, 028000-8440, 028000-9270, 128000-0140, 128000-0141
12 **V**, **ID** 21.00, **OD** 46.60



**132880** Solenoid Coil
12 **V**, **ID** 21.00, **OD** 46.65

**132881** Solenoid Coil
**Servicing:** 028000-4000, 028000-4243, 028000-4250, 028000-4340, 028000-4341, 028000-4343, 028000-4540, 028000-4550, 028000-4940
12 **V**, **ID** 20.85, **OD** 46.50

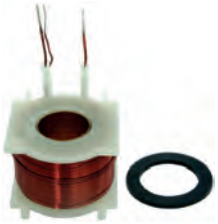
**132882** Solenoid Coil
24 **V**, **ID** 20.90, **OD** 46.55

**132883** Solenoid Coil
**Servicing:** 028000-5800, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7790, 028000-7791, 028000-8060
12 **V**, **ID** 21.00, **OD** 46.65

**132884** Solenoid Coil
**Servicing:** 028000-5900, 028000-7560, 028000-9260, 028000-9261, 028000-9380, 028000-9510, 028000-9720, 128000-0620, 128000-0621
12 **V**, **ID** 21.00, **OD** 45.85

**133094** Solenoid Coil
24 **V**, **ID** 21.10, **OD** 46.75

**136606** Solenoid Coil
**Servicing:** 128000-7140, 128000-8210, 128000-8310, 128000-8311, 128000-8312, 128000-8320, 128000-8321, 128000-8322, 128000-8323
12 **V**, **ID** 21.10, **OD** 43.75



**136607** Solenoid Coil
**Servicing:** 128000-7010, 128000-7390, 128000-7500, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714
12 **V**, **ID** 20.85, **OD** 43.75

**138929** Solenoid Coil
12 **V**, **ID** 20.85, **OD** 46.10

**138931** Solenoid Coil
**Servicing:** 228000-4980, 228000-4981, 228000-4982
12 **V**, **ID** 21.10, **OD** 46.00



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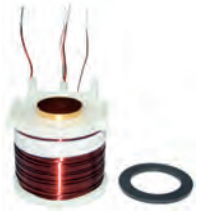
#Available while stock last, * Program development.

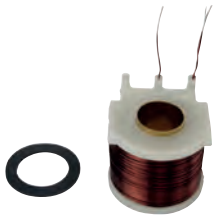
**138934** Solenoid Coil
12 **V**, **ID** 21.00, **OD** 46.55

**138936** Solenoid Coil
12 **V**, **ID** 21.00, **OD** 46.85

**138937** Solenoid Coil
12 **V**, **ID** 21.00, **OD** 46.70



**138939** Solenoid Coil
**Servicing:** 228000-5641
24 **V**, **ID** 21.00, **OD** 46.70



**138940** Solenoid Coil
24 **V**, **ID** 21.10, **OD** 46.75, **Height** 39.00

**138941** Solenoid Coil
24 **V**, **ID** 21.15, **OD** 46.30

**138942** Solenoid Coil
24 **V**, **ID** 21.00, **OD** 46.75

**138943** Solenoid Coil
24 **V**, **ID** 21.00, **OD** 46.85

## Solenoid Caps

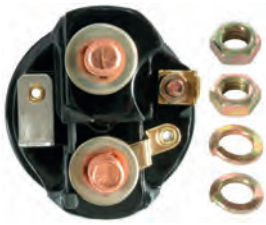
**131374** Solenoid Cap
**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975
**OD** 49.60, **No./terminals** 4
*HC-CARGO 131084.*

**133099** Solenoid Cap
**Servicing:** 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6490, 028000-6491, 028000-6492
**OD** 48.30, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 131807, 133675, 133723, 133809.*

**133104**[#] Solenoid Cap
**Servicing:** 028000-5200, 028000-5201, 028000-5210, 028000-5400, 028000-5401, 028000-5410, 053400-2830
**OD** 49.20, **No./terminals** 4

**134627** Solenoid Cap
**Servicing:** 028000-0430, 028000-1370, 028000-1850, 028000-2150, 028000-2151, 028000-2240, 028000-2241, 028000-2360, 028000-2361
**OD** 49.80, **No./terminals** 3
*HC-CARGO 130814, 132057.*

**134934** Solenoid Cap
**Servicing:** 028000-3730, 028000-6820, 028000-6821, 028000-6822, 028000-6823, 028000-7520, 028000-7521, 028000-8730, 028000-9010
**OD** 48.25, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 134933.*



**137371** Solenoid Cap
**Servicing:** 053400-8510, 228000-5400, 228000-5910
**OD** 48.50, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 135652.*

## 137869 Solenoid Cap

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 053400-1680, 053400-1720, 053400-3490, 053400-3491, 053400-3492, 053400-6030

**OD** 61.80, **No./terminals** 3

*HC-CARGO 132641, 134413.*

## 234128 Solenoid Cap

**Servicing:** 228000-5960, 228000-7581, 228000-7591

**OD** 48.80, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 234992.*

## 235274 Solenoid Cap

**Servicing:** 153400-1520, 228000-4020, 228000-6730, 228000-6750, 228000-6840, 228000-8350, 228000-8360, 228000-8540, 228000-8550

**OD** 48.40, **No./terminals** 3

*HC-CARGO 136886.*

## 237892 Solenoid Cap

**Servicing:** 428000-1620

**OD** 52.25, **No./terminals** 3

## 237978 Solenoid Cap

**Servicing:** 428000-0680, 428000-0700, 428000-0701, 428000-0720, 428000-3180, 428000-7710

**OD** 52.60, **No./terminals** 3, **Bracket type** Crimp

## 331957 Solenoid Cap

**Servicing:** 428000-1760

**OD** 52.13, **No./terminals** 3, **Bracket type** Crimp

### Moving Contacts

## 131830 Contact Kit

**Servicing:** 028000-4550, 028000-5120, 028000-6030, 028000-6031, 028000-6040, 028000-6041, 028000-6620, 028000-6700, 028000-6701

**Alternative no.:** F032131830

## 131831 Contact Kit

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-5730, 028000-5800, 028000-5900, 028000-5910, 028000-5911, 028000-5912

**Thickness** 2.50

## 131832 Contact Kit

**Servicing:** 028000-5530, 028000-5581, 028000-5620, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290

**Alternative no.:** F032131832

## 131833 Contact Kit

**Servicing:** 128000-1790

**Alternative no.:** F032131833

## 132564 Contact Kit

**Replacing:** 028099-7140, 028099-7120, 028099-7100, 028099-3781, 028099-3780, 028099-2791, 028099-2790

**Servicing:** 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541, 028000-5542

## 132565 Contact Kit

**Replacing:** 028099-3160

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532



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## 132567 Contact Kit

**Replacing:** 028099-8701, 028099-8672, 028099-3860, 028099-3031, 028099-3030, 028099-2820, 028099-2680

**Servicing:** 028000-3641, 028000-3642, 028000-4343, 028000-4450, 028000-4990, 028000-5060, 028000-5190, 028000-5390, 028000-5730

## 132568 Contact Kit

**Replacing:** 028099-7220, 028099-6820, 028099-3399, 028099-3390, 028099-3020, 028099-3010, 028099-2921

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4540, 028000-4550

**Length** 29.80, **Shaft measurement** 26.80, **Thickness** M8

**Alternative no.:** F032132568

## 133599 Contact Kit

**Replacing:** 028099-3170

**Servicing:** 128000-3080, 128000-3081, 128000-3082, 128000-3512, 128000-3513, 128000-3514, 228000-1671, 228000-5641

## 133601 Contact Kit

**Replacing:** 028099-2691, 028099-2690

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5570, 028000-5571, 028000-5651, 028000-5652, 028000-5660

## 133602 Contact Kit

**Servicing:** 028000-7370, 028000-7372, 028000-7373, 028000-7790, 028000-7791, 028000-8320, 028000-8370, 028000-8371, 028000-8451

*For 1/1.2/1.4/2 kW.*

**Alternative no.:** F032133602

## 133621 Contact Kit

## 133634 Contact Kit

**Servicing:** 028000-5300, 028000-5581, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290, 028000-6291

**Width** 3.00

**Alternative no.:** F032133634

## 133635 Contact Kit

**Servicing:** 028000-7000, 028000-7001, 028000-9030, 028000-9260, 028000-9261, 128000-0280, 128000-0281, 128000-0620, 128000-0621

**Shaft measurement** M8, **Width** 2.50

**Alternative no.:** F032133635

Pkg. 10

## 135016 Contact Plate

**Servicing:** 028000-5200, 028000-5201, 028000-6490, 028000-6491, 028000-6492, 028000-6493, 028000-6494, 028000-6495, 028000-7091

**Length** 25.25, **Thickness** 4.00, **Width** 12.55

## 135383 Contact Kit

**Replacing:** 028099-6600

**Servicing:** 128000-3380, 128000-3381, 128000-3420

## 135384 Contact Kit

**Replacing:** 028099-9131, 028099-9130, 028099-7230

**Servicing:** 128000-7010, 128000-7390, 128000-7500, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714

## 135385 Contact Kit

**Replacing:** 028099-7231, 028099-7212, 028099-7210

**Servicing:** 128000-7002, 128000-7122, 128000-7140, 128000-8210, 128000-8310, 128000-8311, 128000-8312, 128000-8320, 128000-8321

**Length** 29.30, **Shaft measurement** 26.30, **Thickness** M8

**Alternative no.:** F032135385

## 139046 Contact Kit

**Replacing:** 028099-7242, 028099-7240

**Servicing:** 128000-9310, 128000-9860, 128000-9880, 128000-9890, 228000-0820, 228000-0821, 228000-0822, 228000-0823, 228000-0830

*1.2/1.4 kW.*

## 139047 Contact Kit

**Replacing:** 128099-5241, 128099-5240
**Servicing:** 228000-0570, 228000-0571, 228000-1590, 228000-1591, 228000-1600, 228000-1601, 228000-1610, 228000-1611, 228000-1661
*2.5/2.7/4.5 kW.*

## 139081 Contact Kit

**Servicing:** 128000-5730, 128000-5731, 128000-5732
**Length** 65.00, **Shaft measurement** M12
*Used w/ HC-CARGO 132565.*

## 139494 5★ Contact Kit

**Replacing:** 028099-7812, 028099-7800, 028099-7202
**Servicing:** 228000-1100, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690
*12 V. 2 kW.*
**Alternative no.:** 335157

## 139495 Contact Kit

**Replacing:** 028099-3041, 028099-3040, 028099-3001, 028099-3000
**Servicing:** 028000-4323, 028000-4540, 028000-4550, 028000-4940, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000
*12 V. 1 kW.*

## 139532 Contact Kit

**Replacing:** 028099-8961, 028099-8960, 028099-7752, 028099-7751, 028099-7750
**Servicing:** 028000-7370, 028000-7372, 028000-7373, 028000-8760, 028000-8761, 028000-8762, 128000-0360, 128000-7350, 128000-7353
*1/1.2/1.4/2 kW.*

## 230004 Contact Kit

**Length** 16.00, **Thickness** 3.00, **Width** 17.00

## 230744 Contact Kit

**Replacing:** 028099-6890, 028099-6470, 028099-6433, 028099-6432, 028099-6431, 028099-6430, 028099-6420
**Servicing:** 128000-5730, 128000-5731, 128000-5732, 228000-3700, 228000-7902, 428000-0190, 428000-2370
**Shaft measurement** M12
*24 V. 5.5 kW.*

## 232982 Contact Kit

## 232983 Contact Kit

Pkg. 5

## 233069 Contact Plate

**Servicing:** 028000-9380, 053660-0401, 053660-7050, 053660-7100, 128000-1050, 128000-1630, 128000-1770, 128000-3350, 128000-6280
**OD** 36.80, **Thickness** 2.00

Pkg. 5

## 233077 Contact Plate

**Servicing:** 053660-7120, 053660-7150
**OD** 34.80, **Thickness** 2.00

Pkg. 5

## 233078 Contact Plate

**Servicing:** 053660-0443, 053660-0660
**OD** 39.80, **Thickness** 2.50

## 233081 Contact Kit

**Servicing:** 128000-7380

## 233169 Contact Kit

**Servicing:** 128000-5750
**Shaft measurement** M8



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## 233689 Contact Kit

**Replacing:** 028099-8940, 028099-8911, 028099-7520

**Servicing:** 228000-1960, 228000-1970, 228000-2570, 228000-2571, 228000-2572, 228000-2573, 228000-2831, 228000-2841, 228000-3240

**Length** 37.65, **Shaft measurement** M8, **Thickness** 8.70

*12 V. 1.4 kW.*

## 234352 Contact Kit

Pkg. 5

## 235638 Contact

**Servicing:** 028000-7000, 028000-8370, 228000-0450

**Length** 21.90, **Thickness** 2.45, **Width** 15.50

Pkg. 5

## 237893 Moving Contact

**Servicing:** 428000-0720, 428000-1620

**Length** 24.50, **Thickness** 1.60, **Width** 26.50

Pkg. 10

## 237979 Moving Contact

**Servicing:** 428000-0680, 428000-0700, 428000-0701, 428000-0720, 428000-3180

**Length** 24.25, **Thickness** 1.60, **Width** 12.50

Pkg. 10

## 332661 Contact Plate

**Servicing:** 228000-0940, 228000-0941, 228000-2900, 228000-5960

**Length** 25.50, **Thickness** 4.25, **Width** 12.30

### Fixed Contacts

Pkg. 10

## 139640 Fixed Contact

**Servicing:** 228000-5641, 228000-5650, 228000-5651, 228000-5652, 428000-2631

**Total length** 45.70, **Length/rear collar** 42.00, **Thread length** 24.20, **Thread size** M10

Pkg. 10

## 139641 Fixed Contact

**Servicing:** 228000-1180, 228000-3981, 228000-5641, 228000-5650, 228000-5651, 228000-5652, 428000-2631

**Thread** M10, **Total length** 33.20, **Thread length** 18.50, **Head type** Flat head

Pkg. 10

## 139642 Fixed Contact

**Servicing:** 228000-0971, 228000-3280, 228000-3282, 228000-3283, 228000-3620, 228000-3621, 228000-3622, 228000-4980, 228000-4981

**Total length** 27.71, **Length/rear collar** 24.28, **Thread length** 14.27, **Thread size** M8

Pkg. 10

## 139643 Fixed Contact

**Servicing:** 228000-0971

**Thread** M8, **Total length** 29.80, **Thread length** 15.25

Pkg. 10

## 139644 Fixed Contact

**Servicing:** 228000-1180, 228000-3280, 228000-3282, 228000-3283, 228000-3620, 228000-3621, 228000-3622, 228000-3981, 228000-4980

**Thread** M8, **Total length** 36.70, **Thread length** 19.60

Pkg. 10

## 233066 Fixed Contact

**Servicing:** 428000-0250, 428000-0570, 428000-2720, 428000-2730, 428000-5470

**Total length** 37.00, **Length/rear collar** 33.30, **Thread length** 19.05, **Thread size** M8



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#Available while stock last, * Program development.

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Pkg. 5

**233168** Contact

**Length** 24.95

## Various

Pkg. 5

**131834** Terminal Switch

**Replacing:** 053480-7430, 053480-7320, 053480-7220, 053480-0380, 053480-0100

**Servicing:** 028000-4323, 028000-4540, 028000-5530, 028000-5620, 028000-5800, 028000-5900, 028000-5911, 028000-5912, 028000-6000

Pkg. 5

**131835** Terminal Switch

**Replacing:** 053480-0090

**Servicing:** 028000-5060, 028000-5821, 028000-5822, 028000-5991, 028000-5992, 028000-6440, 028000-6570, 028000-6620, 028000-6701

Pkg. 5

**131836** Terminal Switch

**Servicing:** 028000-4550, 028000-6030, 028000-6031, 028000-6041, 028000-6620, 028000-6700, 028000-6701, 028000-7190, 028000-7191

Pkg. 5

**132068**# Gasket

**ID** 55.00, **ID/mount. hole** 5.70, **OD** 65.70, **Thickness** 0.70

**132563** Plunger

**Replacing:** 053660-7710, 053660-7260, 053660-7250, 053660-7100, 053660-0442, 053660-0441, 053660-0440

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4540, 028000-4550

**OD** 36.80, **Length** 96.77

*Contact: HC-CARGO 233069.*

**Alternative no.:** F032132563

**132570** Plunger

**Replacing:** 053660-7170, 053660-7111, 053660-0660, 053660-0443, 021660-0442, 021660-0441, 021660-0440

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532

**OD** 39.80, **Length** 119.20

*Contact: HC-CARGO 233078.*

Pkg. 5

**132705** Terminal Switch

**Replacing:** 053480-0110

**Servicing:** 028000-4800, 028000-5120, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532

**Width** 2.50

*M5-0.8 thread hole.*

Pkg. 5

**132709** Terminal Switch

**Servicing:** 028000-4550, 028000-6030, 028000-6031, 028000-6041, 028000-6620, 028000-6700, 028000-6701, 028000-7190, 028000-7191

Pkg. 10

**132725** Insulator

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-4550, 028000-5730, 028000-5900, 028000-5910, 028000-5911, 028000-5912

**ID** 11.40, **OD** 21.90, **Height** 6.00

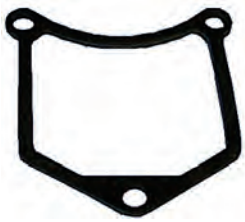
Pkg. 5

**132870** Terminal

**Servicing:** 128000-2570, 128000-2580, 128000-3500, 128000-4960, 128000-5270, 128000-5280, 128000-7500, 128000-8030

**Total length** 27.50, **Thread length** 7.00, **Thread size** M4

Pkg. 5



**132878** Gasket

**Replacing:** 053404-0320, 053404-0210

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940, 028000-4990, 028000-5060

**ID** 52.40, **ID/mount. hole** 7.50, **OD** 61.40, **Thickness** 2.85, **Material** Rubber



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Pkg. 5

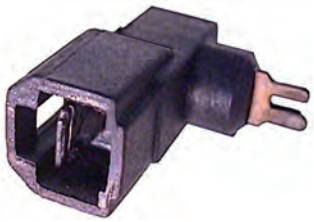
## 132879 Gasket

**Replacing:** 053404-0240

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**ID** 61.35, **ID/mount. hole** 7.90, **OD** 70.90, **Thickness** 1.95, **Material** Rubber

Pkg. 5



## 132897 Terminal Switch

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-5910, 028000-5911, 028000-8440, 228000-5382

Pkg. 10

## 134496 Insulator

**Servicing:** 028000-5730, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6250, 028000-7000, 028000-7001, 028000-7002

**ID** 8.00

Pkg. 5

## 135166 Insulator

**Servicing:** 128000-0040

**ID** 8.30, **OD** 22.00, **Height** 5.60

Pkg. 5

## 135167 Insulator

**Servicing:** 028000-5300, 028000-5581, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290, 028000-6291

Pkg. 5

## 135168 Insulator

**Servicing:** 028000-5300, 028000-5581, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290, 028000-6291

Pkg. 10

## 135313 Terminal Switch

**Replacing:** 053480-7300

**Servicing:** 028000-6250, 028000-7830, 028000-8570, 028000-8581, 028000-9800, 128000-0140, 128000-0141, 128000-0170, 128000-0171

Pkg. 5

## 135342 Spring

**Replacing:** 949170-9770, 949170-3380, 053659-7060

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4512, 028000-4540, 028000-4940, 028000-5060

**OD** 7.00, **Length** 62.00

*1/2.2 kW.*

Pkg. 5

## 135343 Spring

**Replacing:** 053659-7070

**Servicing:** 128000-3480, 128000-3481, 128000-3482, 128000-5950, 128000-5951, 128000-7390, 128000-7991, 128000-8310, 128000-8311

**OD** 7.35, **Length** 89.60

*2.5 kW.*

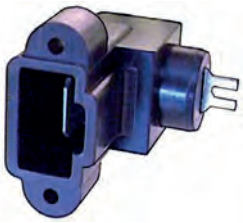
Pkg. 10

## 135476# Insulator

**Servicing:** 028000-5581, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892, 028000-6910, 028000-7240, 028000-7241

**ID** 13.40, **OD** 29.75, **Height** 13.90

Pkg. 10



## 135650 Terminal Switch

**Replacing:** 053480-0431, 053480-0430

**Servicing:** 028000-5730, 128000-0111, 128000-0710, 128000-0740, 128000-0790, 128000-1151, 128000-1152, 128000-3410, 128000-6360

## 135865 Plunger

**Replacing:** 053660-7051, 053660-7050

**Servicing:** 128000-3470, 128000-3471, 128000-3472, 128000-3480, 128000-3481, 128000-3482, 128000-5941, 128000-5942, 128000-5950

**OD** 36.80, **Length** 123.00

*Contact: HC-CARGO 233069.*



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 136033 Gasket

**Replacing:** 053404-7061

**Servicing:** 128000-6280, 128000-7002, 128000-7122, 128000-7140, 128000-7390, 128000-7500, 128000-7560, 128000-7712, 128000-7713

**ID** 50.90, **ID/mount. hole** 6.40,
**OD** 59.70, **Thickness** 2.25, **Material** Rubber

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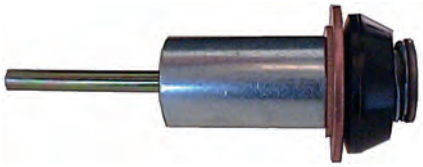

## 136374 Plunger

**Replacing:** 053680-7120, 053660-7121, 053660-7120

**Servicing:** 128000-6810, 128000-6811, 128000-6812, 128000-7002, 128000-7010, 128000-7120, 128000-7122, 128000-7140, 128000-7500

**OD** 34.80, **Length** 96.50
*Contact: HC-CARGO 233077.*

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## 136901 Plunger

**Replacing:** 053660-7151, 053660-7150

**Servicing:** 128000-7390, 128000-8310, 128000-8311, 128000-8312, 128000-8400, 128000-9710, 128000-9720, 228000-0220, 228000-0420

**OD** 35.00, **Length** 126.50
*Contact: HC-CARGO 233077.*

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## 137204 Terminal Switch

**Replacing:** 053480-7670, 053480-7550, 053480-7510

**Servicing:** 128000-9890, 228000-0580, 228000-0780, 228000-0820, 228000-0821, 228000-0822, 228000-0823, 228000-0830, 228000-0831

**OD** 9.16, **Length** 34.30, **Width** 10.00

---

Pkg. 5

## 138608 Spring

**Replacing:** 949170-4070

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**OD** 7.20, **Length** 72.80

---

Pkg. 5

## 139048 Gasket

**Replacing:** 053404-7130

**Servicing:** 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690

**ID** 53.85, **ID/mount. hole** 7.40,
**OD** 61.50, **Thickness** 2.40,
**Material** Rubber

---

Pkg. 5

## 139420 Insulator

**Servicing:** 228000-0580, 228000-0640, 228000-0830, 228000-0831, 228000-0832, 228000-0900, 228000-0901, 228000-0902, 228000-1100

**Total length** 32.15

---

Pkg. 5

## 139424 Spring

**OD** 7.30, **Length** 72.00

---

Pkg. 10

## 230221 Plunger

**Replacing:** 053660-7241, 053660-7240

**Servicing:** 028000-7002, 028000-7003, 028000-7004, 128000-0140, 128000-6280, 228000-1070, 228000-1180, 228000-2120, 228000-2680

**OD** 36.80, **Length** 96.70
*Contact: HC-CARGO 233069.*

**Alternative no.:** F032230221

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Pkg. 5

## 230898 Terminal Switch

**Replacing:** 053480-7790

**Servicing:** 228000-2860, 228000-2890, 228000-3060, 228000-3640, 228000-3641, 228000-3642, 228000-3680, 228000-4320, 228000-4980

**Length** 34.90

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Pkg. 5

## 231427 Terminal Switch

**Length** 29.00, **Shaft measurement** M4

---

Pkg. 5

## 231552 Rubber Boot

**Replacing:** 053665-7071, 053665-7070, 053665-0111

**Servicing:** 028000-5334, 028000-5335, 028000-6380, 028000-6381, 028000-6382, 028000-6383, 028000-6384, 028000-6385, 028000-6391

**ID** 27.65, **OD** 35.35, **Length** 20.40

---



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#Available while stock last, * Program development.

Pkg. 5

## 231626 Terminal Switch

**Replacing:** 053480-7950, 053480-7901, 053480-7900

**Servicing:** 228000-4930, 228000-5020, 228000-5021, 228000-5022, 228000-5023, 228000-5340, 228000-5341, 228000-5342, 228000-5650

**Length** 35.45, **Shaft measurement** M8

## 231733 Plunger Boot

**Replacing:** 053665-7090

**Servicing:** 128000-2680, 128000-2682, 128000-3250, 128000-3251, 128000-3260, 128000-3261, 128000-4030, 128000-4031, 128000-4180

**ID** 11.45, **OD** 33.00, **Length** 15.30

## 231764 Solenoid Cover

**Replacing:** 053505-7260, 053505-7140, 053505-7080, 053505-0620

**Servicing:** 028000-4540, 028000-5730, 028000-5900, 028000-5911, 028000-5912, 028000-6000, 028000-6001, 028000-6300, 028000-6361

## 231805 Solenoid Cover

**Replacing:** 053505-0290

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5560, 028000-5561, 028000-5570, 028000-5571, 028000-5651, 028000-5652

Pkg. 10

## 233097 Terminal

**Servicing:** 128000-4910, 128000-7600, 128000-7601, 128000-7602, 128000-7603, 128000-7604

**Total length** 34.65, **Thread length** 14.35, **Thread size** M5

Pkg. 10

## 233374 Plunger

**OD** 39.60, **Length** 119.20

Pkg. 10

## 233375 Plunger

**Replacing:** 053660-7271, 053660-7270

**Servicing:** 228000-5860, 228000-5861, 228000-5862

**OD** 36.50, **Length** 125.60

## 233550 Cover

**Replacing:** 053505-7150

**Servicing:** 028000-5530, 028000-5531, 028000-5532, 028000-5581, 028000-5620, 028000-6870, 028000-6880, 028000-6890, 028000-6891

**OD** 86.80

Pkg. 5

## 331958 Moving Contact

**Servicing:** 428000-1760, 428000-3370, 428000-3372

**Length** 23.00, **Shaft measurement** 23.82, **Thickness** 1.50, **Width** 11.49

Pkg. 10

## 333023 Terminal Switch

**Plug size** 6.30, **Plug length** 8.50, **Terminals** 1, **Plug type** Flat, **Colour** Black, **Male/female** Male

## Drives

## 130441 Drive

**Replacing:** 028300-3351, 028300-1690, 028300-0801, 028300-0800, 028300-0700, 028300-0630, 028300-0611

**Servicing:** 028000-0197, 028000-1010, 028000-1011, 028000-1013, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975

**ID** 12.50, **OD** 29.15, **OD/housing** 46.25, **Total length** 86.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130442 Drive

**Replacing:** 028300-7590, 028300-3750, 028300-3710, 028300-3490, 028300-3350, 028300-2240, 028300-1951

**Servicing:** 028000-0370, 028000-0430, 028000-1370, 028000-1620, 028000-2260, 028000-2261, 028000-2262, 028000-2263, 028000-2360

**ID** 12.55, **OD** 29.15, **OD/housing** 46.30, **Total length** 82.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 131090[#] Drive

**Replacing:** 028300-1831, 028300-1830

**Servicing:** 028000-5200, 028000-5201, 028000-5210, 028000-5400, 028000-5401, 028000-5410, 028000-7110, 028000-7111, 028000-7112

**ID** 12.65, **OD** 26.69, **OD/housing** 47.32, **Total length** 85.86, **Splines A** 5, **No./teeth** 10, **Rotation** CR

## 131110 Drive

**Replacing:** 028300-5900, 028300-1542, 028300-1540, 028300-1020, 028300-0851

**Servicing:** 028000-1850, 028000-2150, 028000-2151, 028000-2240, 028000-2241, 028000-3500, 028000-3501, 028000-3800, 028000-3830

**ID** 12.55, **OD** 29.10, **OD/housing** 46.25, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132004 Drive

**Replacing:** 028300-7120, 028300-6940, 028300-5990, 028300-5350, 028300-5340, 028300-4420, 028300-4300

**Servicing:** 028000-3641, 028000-3642, 028000-4020, 028000-4243, 028000-4250, 028000-4323, 028000-4340, 028000-4341, 028000-4343

**OD** 29.00, **Total length** 102.40, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132545 Drive

**Replacing:** 028300-5810, 028300-1740, 028300-1670, 028300-0831, 028300-0830

**Servicing:** 028000-2970, 028000-3730, 028000-4790, 028000-4840, 028000-5270, 028000-5350, 028000-5360, 028000-5361, 028000-5371

**ID** 12.50, **OD** 29.00, **OD/housing** 46.00, **Total length** 86.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 132547 Drive

**Replacing:** 028300-4320

**Servicing:** 028000-9470, 028000-9490, 028000-9500, 028000-9501, 128000-3610, 128000-3621, 128000-5650, 128000-9120

**ID** 12.50, **OD** 24.50, **OD/housing** 46.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 132634 Drive

**Replacing:** 028300-1660, 028300-1280, 028300-1230

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-3971, 028000-5040, 028000-5920

**ID** 17.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 101.85, **Splines A** 4, **No./teeth** 10, **Rotation** CR

*12 V. 4 kW.*

## 132863 Drive

**Replacing:** 028300-1842, 028300-1841, 028300-1840

**Servicing:** 028000-5060, 028000-6440, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7351, 028000-7790

**OD** 32.00, **Total length** 102.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132864 Drive

**Replacing:** 028300-6210, 028300-5710, 028300-5490, 028300-2200

**Servicing:** 028000-6261, 028000-6960, 028000-7740, 028000-8432, 028000-9031, 028000-9032, 128000-0180, 128000-0181, 128000-0940

**OD** 29.20, **Total length** 102.30, **Splines A** 11, **No./teeth** 11, **Rotation** CR

## 132942 Drive

**Replacing:** 028300-5091, 028300-5090, 028300-4551, 028300-4550, 028300-3952, 028300-3950, 028300-2070

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5520, 028000-5530, 028000-5531, 028000-5532

**OD** 40.15, **OD/housing** 58.20, **Total length** 146.60, **Splines A** 10, **No./teeth** 11, **Rotation** CR

*Spring long (19.50x88.40 mm): HC-CARGO 134301.*



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[#]Available while stock last, ***** Program development.

## 133441 Drive

**Replacing:** 028300-4471, 028300-3880

**Servicing:** 028000-8040, 028000-8041, 028000-9430, 128000-0350, 128000-0351, 128000-0690, 128000-1290, 128000-1291, 128000-1683

**ID** 12.50, **OD** 28.00, **OD/housing** 46.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 133631 Drive

**Replacing:** 028300-6670, 028300-5180, 028300-4410, 028300-3571, 028300-3570

**Servicing:** 028000-9361, 128000-0461, 128000-0462, 128000-1070, 128000-1311, 128000-1620, 128000-1621, 128000-2170, 128000-2421

**ID** 12.50, **OD** 28.00, **OD/housing** 46.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 133712 Drive

**Replacing:** 028300-5850, 028300-4390

**Servicing:** 028000-9900, 028000-9901, 028000-9902, 128000-0600, 128000-2860, 128000-2861, 128000-2862, 228000-3380, 228000-3381

**ID** 12.55, **OD** 28.00, **OD/housing** 47.00, **Total length** 59.55, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 133714 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-3970

**Servicing:** 028000-8411, 128000-2950, 128000-5290

**ID** 12.00, **OD** 29.90, **OD/housing** 47.00, **Total length** 33.60, **No./teeth** 14

## 133805 Drive

**Replacing:** 028300-5820, 028300-5040

**Servicing:** 128000-3090, 128000-3091, 128000-4180, 128000-4270, 128000-6660, 128000-6670, 128000-6671, 128000-6672, 128000-6673

**ID** 11.00, **OD** 28.00, **OD/housing** 41.00, **Total length** 53.55, **Splines A** 5, **No./teeth** 8, **Rotation** CR

## 134856 Drive

**Replacing:** 028300-5770, 028300-4330, 028300-3990, 028300-3770

**Servicing:** 028000-7600, 028000-8570, 028000-8580, 028000-8581, 028000-9510, 028000-9800, 128000-1220, 128000-1230, 128000-2210

**OD** 29.30, **Total length** 102.55, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 135002 Drive

**Replacing:** 028300-6700, 028300-3810, 028300-3340

**Servicing:** 028000-6260, 028000-6261, 028000-6570, 028000-8430, 028000-8432, 028000-9030, 028000-9031, 028000-9032, 128000-0181

**OD** 34.00, **Total length** 102.55, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 135445 Drive

**Replacing:** 028300-3460

**Servicing:** 028000-7110, 128000-1360, 128000-2640, 128000-2660, 128000-3730, 128000-8660, 128000-8670

**ID** 12.60, **OD** 26.65, **OD/housing** 47.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 135651 Drive

**Replacing:** 028300-5800

**Servicing:** 128000-4030, 128000-4031, 128000-4040, 128000-4050, 128000-4060, 128000-4070, 128000-4130, 128000-4160, 128000-4170

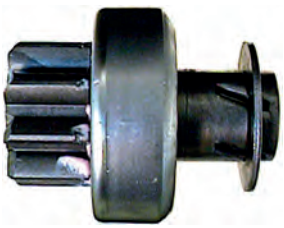
**ID** 11.00, **OD** 28.00, **OD/housing** 41.00, **Total length** 75.30, **Splines A** 5, **No./teeth** 8, **Rotation** ACR

## 135889 Drive

**Replacing:** 028300-4200, 028300-4190

**Servicing:** 028000-9220, 028000-9221, 028000-9230, 028000-9890, 028000-9940, 128000-1270, 128000-1280, 128000-1530, 128000-1540

**ID** 11.00, **OD** 27.75, **OD/housing** 47.00, **Total length** 77.50, **Splines A** 10, **No./teeth** 8, **Rotation** ACR



## 136086 Drive

**Replacing:** 028300-6960, 028300-6070

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341

**ID** 11.00, **OD** 29.00, **OD/housing** 43.30, **Total length** 53.65, **Splines A** 5, **No./teeth** 9, **Rotation** CR

*Clutch O.D. 43.50 mm.*



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#Available while stock last, * Program development.

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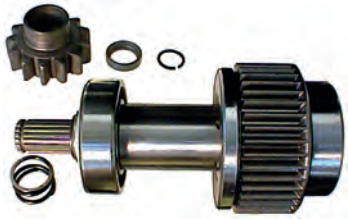
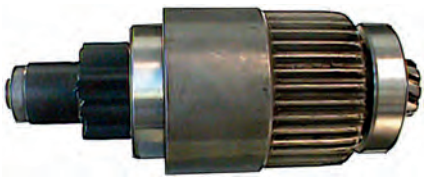


## 136313 Drive

**Replacing:** 28011-74011, 028099-8590, 028099-6590, 028099-6011

**Servicing:** 128000-3470, 128000-3471, 128000-3472, 128000-3480, 128000-3481, 128000-3482, 128000-5941, 128000-5942, 128000-5950

**OD** 40.60, **Total length** 121.30, **Splines A** 10, **Splines B** 18, **No./teeth** 13, **Rotation** ACR



## 136315 Drive

**Replacing:** 028300-1812, 028300-1811, 028300-1810

**Servicing:** 028000-5000, 028000-7730, 028000-7731, 028000-7732, 128000-6860, 128000-6861

**OD** 35.00, **Total length** 145.75, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 136447 Drive

**Replacing:** 028099-6580, 028090-6580

**Servicing:** 128000-7390, 128000-8400, 128000-9710, 128000-9720, 228000-0420, 228000-0820, 228000-0821, 228000-0822, 228000-0823

**OD** 40.65, **Total length** 110.00, **Splines A** 10, **No./teeth** 13, **Rotation** ACR

## 136744 Drive

**Replacing:** 028300-7900, 028300-7150

**Servicing:** 128000-8310, 128000-8311, 128000-8312, 228000-7130

**OD** 29.30, **Total length** 109.75, **No./teeth** 9, **Rotation** ACR

## 136794 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-5730

**Servicing:** 128000-3662, 128000-4530, 128000-4531, 128000-4532, 228000-6430

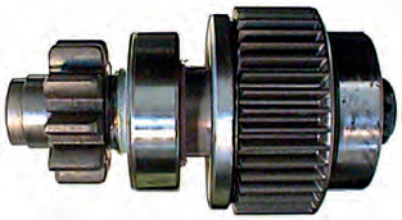
**ID** 11.00, **OD** 24.70, **OD/housing** 41.25, **Total length** 75.55, **Splines A** 5, **No./teeth** 8, **Rotation** ACR

## 136795 Drive

**Replacing:** 028300-8020, 028300-4091, 028300-4000

**Servicing:** 028000-8370, 028000-8371, 028000-8440, 128000-5760, 228000-0380, 228000-0381, 228000-0390, 228000-0391, 228000-0450

**OD** 35.35, **Total length** 102.60, **Splines A** 10, **No./teeth** 9, **Rotation** CR



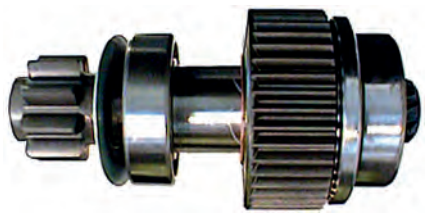
## 136796 Drive

**Replacing:** 028300-4082, 028300-4081, 028300-4011, 028300-1970

**Servicing:** 028000-8451, 028000-8611, 028000-8612, 028000-8980, 128000-0550, 128000-0551, 128000-0790, 128000-0930, 128000-5350

**OD** 37.80, **OD/housing** 53.80, **Total length** 102.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 610469



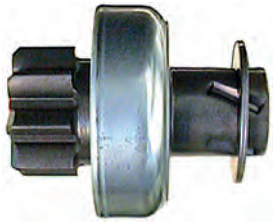
## 136797# 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-5680

**Servicing:** 128000-3380, 128000-3381, 128000-3420

**OD** 29.25, **Total length** 112.25, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



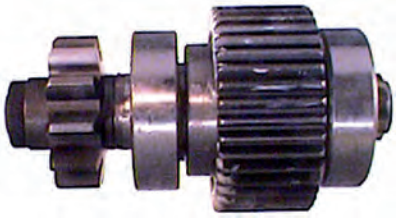
## 136899 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-6710

**Servicing:** 128000-6420, 128000-6421, 128000-6422, 228000-5710

**ID** 11.00, **OD** 27.50, **OD/housing** 44.00, **Total length** 53.35, **Splines A** 5, **No./teeth** 8, **Rotation** CR



## 137293 Drive

**Replacing:** 028099-2700

**Servicing:** 028000-7370, 028000-7372, 028000-7373, 028000-7660, 028000-7661, 028000-7662, 028000-8760, 028000-8761, 028000-8762

**OD** 40.00, **Total length** 102.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 137293Z

## 137293Z Drive

**Replacing:** 028099-2700

**OD** 39.70, **OD/housing** 53.60, **Total length** 102.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137293



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 137647# 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-6930

**Servicing:** 128000-7190, 128000-7191

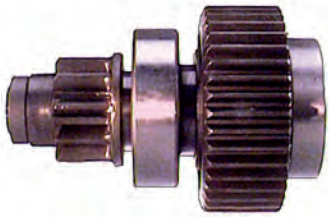
**OD** 29.20, **Total length** 121.20, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 137751 Drive

**Replacing:** 028300-6680

**Servicing:** 128000-6210, 128000-6211, 128000-6212, 128000-9220, 128000-9470, 228000-1550, 228000-5480, 228000-5481, 228000-6620

**ID** 11.00, **OD** 28.00, **OD/housing** 43.45, **Total length** 53.50, **Splines A** 5, **No./teeth** 8, **Rotation** CR



## 137753 Drive

**Replacing:** 028300-8350, 028300-7990, 028300-7980, 028300-7170, 028300-6990

**Servicing:** 128000-7002, 128000-7010, 128000-7122, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714

**OD** 29.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 137753Z

## 137753Z Drive

**Replacing:** 028300-8350, 028300-7990, 028300-7980, 028300-7170, 028300-6990

**OD** 29.10, **OD/housing** 53.50, **Total length** 83.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

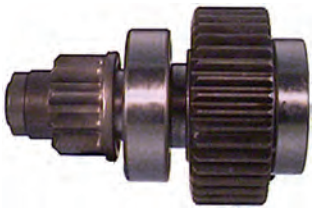
**Alternative no.:** 137753

## 137950 Drive

**Replacing:** 028300-6860

**Servicing:** 128000-7140, 128000-7500, 128000-8030, 128000-9380, 228000-8430, 228000-8431, 228000-8432

**OD** 29.35, **Total length** 83.15, **Splines A** 10, **No./teeth** 11, **Rotation** CR

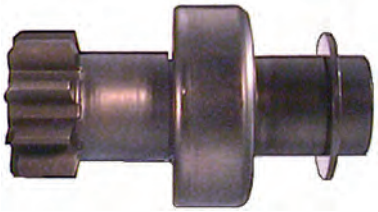


## 137952 Drive

**Replacing:** 028300-7720

**Servicing:** 228000-0470, 228000-0471, 228000-0472, 228000-0473, 228000-7640, 228000-7641, 228000-9680, 428000-2220

**OD** 28.00, **Total length** 83.20, **Splines A** 10, **No./teeth** 10, **Rotation** CR



## 138137 Drive

**Replacing:** 028300-3590, 028300-1390, 028300-1389, 028300-1388, 028300-1387, 028300-1386, 028300-1385

**Servicing:** 028000-3611, 028000-7480, 028000-7481

**ID** 12.40, **OD** 34.15, **OD/housing** 46.00, **Total length** 82.20, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 138566 Drive

**Replacing:** 028300-7802, 028300-5671, 028300-5670, 028300-5651, 028300-5650, 028300-2040

**Servicing:** 028000-5880, 128000-2740, 128000-3120, 128000-4220, 128000-4910, 228000-2290, 228000-2670, 228000-3310, 228000-3320

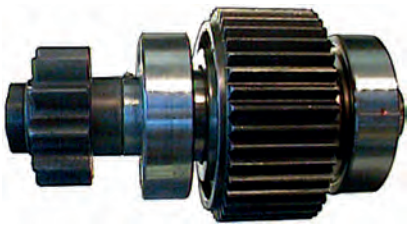
**OD** 39.50, **OD/housing** 59.00, **Total length** 146.00, **Splines A** 10, **No./teeth** 13, **Drive type** Steel, **Rotation** CR

## 138567 Drive

**Replacing:** 128099-5160, 053400-4731

**Servicing:** 028000-6460, 028000-6462, 028000-6463, 128000-8620, 128000-8621, 228000-1600, 228000-1601, 228000-1610, 228000-1611

**OD** 45.00, **Total length** 146.00, **Splines A** 10, **No./teeth** 12, **Rotation** CR

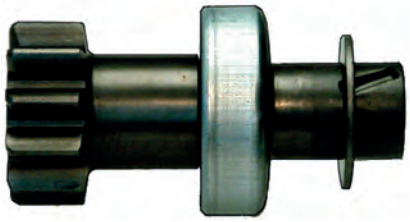


## 138568 Drive

**Replacing:** 028300-5760

**Servicing:** 128000-1180, 128000-1181

**OD** 34.25, **Total length** 101.80, **Splines A** 10, **No./teeth** 11, **Rotation** ACR



## 138956 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-6880

**Servicing:** 128000-7110

**ID** 11.00, **OD** 35.50, **OD/housing** 41.45, **Total length** 75.50, **Splines A** 5, **No./teeth** 11, **Rotation** ACR

## 139037 Drive

**Replacing:** 028099-6230, 028099-2601, 028099-2600

**Servicing:** 028000-6250, 028000-7830, 128000-0071, 128000-0140, 128000-0141, 128000-1161, 128000-1470, 128000-2160, 128000-2161

**OD** 41.50, **Total length** 102.45, **Splines A** 10, **No./teeth** 11, **Rotation** CR



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 139083 Drive

**Replacing:** 028300-7711, 028300-7710, 028300-6000

**Servicing:** 128000-4860, 128000-4861, 128000-4863, 228000-4550

**ID** 12.00, **OD** 29.00, **OD/housing** 46.30, **Total length** 33.50, **Splines A** 6, **No./teeth** 9, **Rotation** ACR

## 139244 Drive

**Replacing:** 028300-7760, 028300-7270

**Servicing:** 128000-7810, 228000-1560, 228000-3390, 228000-7420

**OD** 33.00, **Total length** 83.40, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 139653 Drive

**Replacing:** 028300-8150, 028300-7790, 028300-7700

**Servicing:** 128000-9860, 128000-9870, 128000-9871, 128000-9872, 128000-9880, 128000-9890, 228000-1900, 228000-2120, 228000-2121

**OD** 37.50, **Total length** 83.20, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 139845 Drive

**Replacing:** 028300-7920

**Servicing:** 228000-1020, 228000-1021, 228000-1022, 228000-1030, 228000-1080

**OD** 33.95, **Total length** 83.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 230053 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-6790

**Servicing:** 128000-6230, 128000-6240, 128000-6750

**ID** 12.40, **OD** 29.15, **OD/housing** 47.50, **Total length** 82.35, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 230856 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-7940

**Servicing:** 228000-0990, 228000-0991, 228000-1060, 228000-1530, 228000-1531, 228000-7520, 228000-7800, 228000-7801

**OD** 29.40, **Total length** 83.20, **No./teeth** 9, **Rotation** CR

## 233398 Drive

**Replacing:** 028300-7530, 028300-6840

**Servicing:** 128000-5330, 128000-5331, 128000-5970, 128000-7020, 128000-7170, 128000-7172, 128000-7174, 128000-7230, 128000-7250

**ID** 17.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 104.40, **Splines A** 18, **No./teeth** 10, **Rotation** CR

## 233451 Drive

**Replacing:** 028300-6692, 028300-6691, 028300-6690, 028300-5450, 028300-3691, 028300-3690

**Servicing:** 028000-6780, 128000-2560, 128000-5370, 128000-5730, 128000-5731, 128000-5732, 128000-8290, 228000-0630, 228000-1350

**OD** 40.00, **OD/housing** 57.90, **Total length** 147.00, **Splines A** 10, **Splines B** 35, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 233456 Drive

**Replacing:** 028300-8100, 028300-7860, 028300-7680, 028300-7610

**Servicing:** 128000-9700, 128000-9701, 228000-0810, 228000-2050, 228000-2051, 228000-2260, 228000-2261, 228000-3990, 228000-3991

**OD** 29.00, **OD/housing** 42.00, **Total length** 82.90, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 233641 Drive

**Replacing:** 128300-0090, 028300-8011

**Servicing:** 228000-1770, 228000-1771, 228000-1772, 228000-4930, 228000-5220, 228000-5340, 228000-5341, 228000-5342, 228000-5650

**OD** 39.85, **Total length** 146.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR



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#Available while stock last, * Program development.

## 233642 Drive

**Servicing:** 228000-1180, 228000-3981, 228000-4960, 228000-4961

**OD** 34.40, **Total length** 83.25, **Splines A** 10, **No./teeth** 11, **Rotation** ACR

## 234230 Drive

**Replacing:** 028300-5720

**Servicing:** 128000-3540, 128000-5500, 128000-7050, 128000-9360, 228000-2210, 228000-9180

**ID** 11.10, **OD** 29.00, **OD/housing** 41.00, **Total length** 53.65, **Splines A** 5, **No./teeth** 9, **Rotation** ACR

## 234269 Drive

**Replacing:** 028300-5929, 028300-5200

**Servicing:** 128000-1670, 128000-1671

**ID** 12.00, **OD** 29.00, **OD/housing** 47.00, **Total length** 33.40, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 234402 Drive

**Replacing:** 028300-5400

**Servicing:** 128000-2610, 128000-2611, 128000-3530, 128000-3531, 128000-4561, 128000-9980, 228000-4620

**ID** 11.00, **OD** 29.15, **OD/housing** 41.00, **Total length** 53.50, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 234720 Drive

**Replacing:** 028300-7661, 028300-7660

**Servicing:** 128000-9970, 128000-9971

**OD** 38.10, **Total length** 146.90, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 234813 5★ Drive

**Manufacturer:** Denso

**Replacing:** 028300-8970

**Servicing:** 228000-7210, 228000-8970

**ID** 11.00, **OD** 29.00, **Total length** 64.55, **Splines A** 5, **No./teeth** 10, **Rotation** ACR

## 234911 Drive

**Replacing:** 128099-5350

**Servicing:** 228000-5860, 228000-5861, 228000-5862

**OD** 40.75, **Total length** 109.00, **No./teeth** 10, **Rotation** CR

## 234970 Drive

**Replacing:** 028300-6010

**Servicing:** 128000-1870, 128000-4870, 128000-7480, 228000-0120, 228000-2640, 228000-7990, 228000-9261, 280000-2640, 280000-7190

**ID** 13.00, **OD** 28.85, **OD/housing** 40.75, **Total length** 75.00, **Splines A** 5, **No./teeth** 9, **Rotation** ACR

## 234984 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 081020-0011

**ID** 14.00, **OD** 39.44, **OD/housing** 62.12, **Total length** 82.88, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 235101 Drive

**Servicing:** 228000-7220

**OD** 35.45, **Total length** 83.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 235497 Drive

**Replacing:** 028300-8160

**Servicing:** 228000-2550

**ID** 13.48, **OD/housing** 53.62, **Total length** 82.93, **Splines A** 18, **Splines B** 40

## 237379 Drive

**Servicing:** 428000-0670, 428000-0680, 428000-1750, 428000-1760, 428000-3361, 428000-3370, 428000-3371, 428000-3372, 428000-4500

**ID** 11.00, **OD** 28.80, **OD/housing** 46.00, **Total length** 43.25, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 237880 Drive

**Servicing:** 428000-1620

**ID** 12.10, **OD** 32.50, **Total length** 50.50, **Splines A** 10, **No./teeth** 12, **Rotation** CR

## 237990 Drive

**Servicing:** 428000-0720

**ID** 12.00, **OD** 35.50, **OD/housing** 47.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 330651 Drive

**Servicing:** 428000-3180, 428000-4920

**ID** 12.00, **OD** 38.85, **OD/housing** 49.60, **Total length** 50.60, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 330938 Drive

**Servicing:** 428000-1280

**OD** 34.10, **OD/housing** 53.84, **Total length** 82.92, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 332369 Drive

**Servicing:** 428000-4600, 428000-5510, 428000-5511, DSN967

**ID** 11.00, **OD** 31.96, **OD/housing** 44.84, **Total length** 42.99, **Splines A** 10, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

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## 333753* Drive

**Replacing:** 028300-6692, 028300-6690, 028300-5450, 028300-3691, 028300-3690

## 333836 Drive

**Replacing:** 028300-9541

**Servicing:** 428000-0340, 428000-0341

**ID** 11.00, **OD** 32.00, **OD/housing** 44.50, **Total length** 43.20, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

# Drive Parts

## Caps

Pkg. 25

## 134204 Dp Cap

**Servicing:** 428000-4051, 428000-5410

**ID** 42.65, **OD** 44.60

Pkg. 25

## 134206 Dp Cap

**Servicing:** 428000-6760

**ID** 43.80, **OD** 45.55

Pkg. 10

## 233382 Dp Cap

**ID** 40.25, **OD** 41.20

## Rollers

Pkg. 10

## 132896 Roller

**Replacing:** 028306-0061

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4512, 028000-4540

**OD** 6.00, **Length** 9.50

*Plastic cage: HC-CARGO 132895.*

Pkg. 10

## 132885 Roller

**Replacing:** 028306-0070

**Servicing:** 028000-4800, 028000-5300, 028000-5510, 028000-5530, 028000-5541, 028000-5570, 028000-5581, 028000-5620, 028000-5651

**OD** 7.65, **Length** 12.90

*Plastic cage: HC-CARGO 135474.*



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#Available while stock last, * Program development.

Pkg. 500

**134213** Roller

**Servicing:** 228000-9252, 428000-4051, 428000-5410

**OD** 5.00, **Length** 8.00

Pkg. 500

**134248** Dp Rollers

**OD** 7.65, **Length** 12.95

Pkg. 500

**134249** Dp Rollers

**OD** 7.80, **Length** 12.95

Pkg. 100

**134922** Dp Rollers

**OD** 7.00, **Length** 11.65

## Springs

Pkg. 10

**132550** Spring

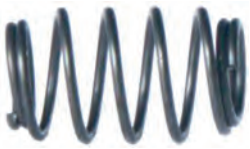
**Replacing:** 949170-4040

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**OD** 19.45, **Length** 90.60

*2.5 kW.*

Pkg. 1000



**134268** Dp Springs

**OD** 7.15, **Length** 13.15

Pkg. 500

**134269** Dp Springs

**OD** 5.65, **Length** 21.25

Pkg. 10

**134301** Spring

**Servicing:** 028300-2011, 028300-4550

**OD** 19.50, **Length** 88.40

Pkg. 5

**135344** Spring

**Replacing:** 949170-4260

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940, 028000-5060, 028000-5730

**OD** 16.10, **Length** 60.75

Pkg. 100

**135362** Dp Springs

**Length** 14.15

Pkg. 5

**137858** Spring

**Replacing:** 949170-3371, 128953-0050

**Servicing:** 028000-6280, 128000-1151, 128000-2070, 128000-3111, 128000-3410, 128000-3471, 128000-3472, 128000-3481, 128000-3482

**OD** 16.15, **Length** 11.00

Pkg. 5

**137859** Pinion Spring

**Replacing:** 949170-4030

**Servicing:** 128000-8620, 128000-8621, 228000-1600, 228000-1601, 228000-1610, 228000-1611, 428000-0290, 428000-3110

**OD** 16.60, **Length** 16.45

Pkg. 5

**138609**[#] Spring

**Replacing:** 028326-5030

**Servicing:** 128000-7002, 128000-7122, 128000-7390, 128000-7713, 128000-7714, 128000-8210, 128000-8310, 128000-8311, 128000-8312

**OD** 16.10, **Length** 60.50

## Pinion

Pkg. 10

**132043** Pinion

**Replacing:** 028099-5580, 028099-3090, 028099-3080

**Servicing:** 028000-3641, 028000-3642, 028000-4020, 028000-4243, 028000-4250, 028000-4323, 028000-4340, 028000-4341, 028000-4343

**ID** 11.15, **OD** 29.15, **Height** 25.20, **No./splines** 18, **No./teeth** 9



All measurements are in mm, unless else stated.
[#]Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 132044 Pinion

**Replacing:** 028099-3400

**Servicing:** 028000-5060, 028000-6440, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7351, 028000-7790, 028000-7791

**ID** 11.75, **OD** 32.20, **Height** 23.35, **No./splines** 18, **No./teeth** 9

---

Pkg. 5

## 132405 Pinion

**Replacing:** 028099-5460, 028099-3310

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5520, 028000-5530, 028000-5531, 028000-5532

**ID** 16.90, **OD** 40.00, **Height** 36.00, **No./splines** 16, **No./teeth** 11

---

## 132566 Pinion

**Replacing:** 028371-2240, 028099-3930

**Servicing:** 028000-7370, 028000-7372, 028000-7373, 028000-7660, 028000-7661, 028000-7662, 028000-8760, 028000-8761, 028000-8762

**ID** 17.00, **OD** 40.00, **Height** 23.55, **No./splines** 18, **No./teeth** 11

---

## 132865 Pinion

**Replacing:** 028099-3290, 028099-3230

**Servicing:** 028000-5880, 028000-7800, 028000-7801, 028000-7802, 128000-0210, 128000-0540, 128000-2270, 128000-2480, 128000-3120

**ID** 16.90, **OD** 39.60, **Height** 36.00, **No./splines** 16, **No./teeth** 13

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## 132866 Pinion

**Replacing:** 028371-5390, 028099-6300, 028099-6260

**Servicing:** 128000-4950, 128000-5430, 128000-9380, 428000-0090

**ID** 11.80, **OD** 28.90, **Height** 25.00, **No./splines** 18, **No./teeth** 11

---

## 132950 Pinion

**Replacing:** 028099-5560

**Servicing:** 028000-5730, 028000-5800, 128000-0111, 128000-0710, 128000-0720, 128000-2070, 128000-7300, 228000-0110, 228000-0111

**ID** 11.65, **OD** 44.00, **Height** 23.60, **No./splines** 18, **No./teeth** 15

---

## 133353 Pinion

**Replacing:** 128099-5360, 028099-3270

**Servicing:** 028000-6780, 128000-1060, 128000-1780, 128000-2250, 128000-2560, 128000-3030, 128000-4090, 128000-4970, 128000-5370

**ID** 15.55, **OD** 39.80, **Height** 36.15, **No./splines** 16, **No./teeth** 10

---

## 133354 Pinion

**Replacing:** 028099-6200

**Servicing:** 028000-8400

**ID** 18.25, **OD** 34.00, **Height** 40.00, **No./splines** 16, **No./teeth** 11

---

## 133355 Pinion

**Replacing:** 028099-3210

**Servicing:** 028000-5000, 028000-7730, 028000-7731, 028000-7732, 128000-3361, 128000-6860, 128000-6861

**ID** 14.40, **OD** 34.90, **Height** 36.00, **No./splines** 16, **No./teeth** 9

---

## 133356 Pinion

**Replacing:** 028371-6190, 028371-1980, 028099-6550, 028099-5590

**Servicing:** 028000-6250, 028000-7420, 028000-7830, 128000-0071, 128000-0140, 128000-1161, 128000-1470, 128000-2160, 128000-2161

**ID** 17.00, **OD** 41.70, **Height** 23.50, **No./splines** 18, **No./teeth** 11

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## 135003 Pinion

**Replacing:** 028300-5741, 028300-5740, 028099-3380

**Servicing:** 028000-6260, 028000-6261, 028000-6570, 028000-7740, 028000-8432, 028000-9031, 028000-9032, 128000-0181, 128000-0940

**ID** 11.20, **OD** 34.00, **Height** 23.50, **No./splines** 18, **No./teeth** 9

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## 135310 Pinion

**Replacing:** 028099-3940, 028099-3110

**Servicing:** ACR, 028000-8570, 028000-8580, 028000-8581, 028000-9510, 028000-9800, 128000-1220, 128000-1230, 128000-2210

**ID** 11.85, **OD** 29.20, **Height** 23.65, **No./splines** 18, **No./teeth** 9

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#Available while stock last, * Program development.

## 135570 Pinion

**Replacing:** 028371-6960, 028371-6780, 028371-6490, 028371-5653

**Servicing:** ACR, 128000-3470, 128000-3471, 128000-3472, 128000-3480, 128000-3481, 128000-3482, 128000-5940, 128000-5941

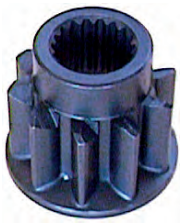
**ID** 11.85, **OD** 41.00, **Height** 23.50, **No./splines** 18, **No./teeth** 13

## 135830 Pinion

**Replacing:** 028099-3900

**Servicing:** 028000-8370, 028000-8371, 128000-5760, 228000-0381, 228000-0391, 228000-0450, 228000-1920, 228000-1930, 228000-3000

**ID** 17.10, **OD** 35.35, **Height** 23.60, **No./splines** 18, **No./teeth** 9



## 138123 Pinion

**Servicing:** 228000-0360, 228000-0470, 228000-0471, 228000-0472, 228000-0473, 228000-4970, 228000-4971, 228000-4972

**ID** 11.20, **OD** 27.45, **Height** 24.80, **No./splines** 18, **No./teeth** 10

## 138124 Pinion

**Replacing:** 028099-7560

**Servicing:** CR/ACR, 128000-2830, 128000-4750, 128000-6930, 128000-6940, 128000-7460, 228000-2050, 228000-2051, 228000-2260

**ID** 13.20, **OD** 29.50, **Height** 23.50, **No./splines** 18, **No./teeth** 9

## 138575 Pinion

**Replacing:** 128099-5400, 028371-6640

**Servicing:** 128000-8620, 128000-8621, 228000-1600, 228000-1601, 228000-1610, 228000-1611, 228000-2030, 228000-2031, 228000-5980

**ID** 16.90, **OD** 44.90, **Height** 36.00, **No./splines** 16, **No./teeth** 12

## 138577 Pinion

**Servicing:** 128000-1180, 128000-1181

**ID** 11.65, **OD** 34.40, **Height** 23.40, **No./splines** 18, **No./teeth** 11

## 139147 Pinion

**Replacing:** 028371-7060, 028371-5730, 028099-3910

**Servicing:** 028000-8451, 028000-8980, 128000-0930, 128000-5350, 128000-9550, 128000-9560, 128000-9860, 128000-9870, 128000-9871

**ID** 11.60, **OD** 37.65, **Height** 23.55, **No./splines** 18, **No./teeth** 10

## 139606 Pinion

**Replacing:** 028371-5030

**Servicing:** 128000-1151, 228000-1800

**ID** 11.70, **OD** 33.35, **Height** 23.55, **No./splines** 18, **No./teeth** 11

## 139654 Pinion

**Replacing:** 028371-7590, 028371-6980, 028099-7590, 028099-6310

**Servicing:** 128000-7810, 228000-1560, 228000-3260, 228000-3390, 228000-7420

**ID** 12.00, **OD** 33.00, **Height** 25.20, **No./splines** 18, **No./teeth** 10

Pkg. 5

## 233452 Pinion

**Servicing:** 228000-5720, 228000-5721, 228000-5722, 228000-5723

**ID** 16.90, **OD** 40.30, **Height** 36.00, **No./splines** 16, **No./teeth** 10

## 234708 Pinion

**Replacing:** 128099-5250

**Servicing:** 128000-9960, 128000-9961, 128000-9970, 128000-9971, 228000-0190, 228000-0191

**ID** 16.90, **OD** 38.50, **Height** 36.00, **No./splines** 16, **No./teeth** 11

## 235345# Pinion

**Replacing:** 028099-5741, 028099-5740

**Servicing:** 028000-6240, 128000-0170, 128000-6640, 228000-1020, 228000-1030, 228000-1080

**ID** 13.20, **OD** 34.20, **Height** 23.50, **No./splines** 18, **No./teeth** 9

## Drive Shafts

**134807** Gear Shaft

**Replacing:** 028381-0040

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940, 028000-5060, 028000-5730

**Total length** 102.50, **No./splines** 18

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**137864** Gear Shaft

**Replacing:** 028381-5150, 028381-5140

**Servicing:** 128000-7002, 128000-7122, 128000-7140, 128000-7390, 128000-7500, 128000-7713, 128000-7714, 128000-8030, 128000-8210

**Total length** 83.20, **No./splines** 18

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**138576** Gear Shaft

**Replacing:** 028381-0071

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**Total length** 146.80, **No./splines** 10

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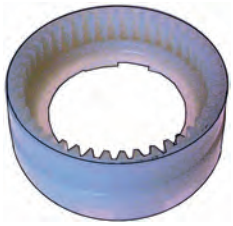
# Planet Gears

## Gear Parts

### Outer Gear

Pkg. 5



**136085** Outer Gear

**Replacing:** 028635-5010

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 40.20, **OD** 63.00, **Height** 23.40

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**237533** Outer Gear

**Replacing:** 028635-5050

**Servicing:** 428000-0150, 428000-0340, 428000-0550, 428000-2800, 428000-3090

**ID** 18.00, **OD** 68.00

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### Gear Wheels

**136887** Gear Wheel

**Replacing:** 028371-6510, 028371-2360

**Servicing:** 028000-5730, 028000-6260, 028000-7700, 028000-8980, 028000-9270, 028000-9320, 028000-9321, 028000-9380, 028000-9510

**ID** 8.85, **OD** 18.70, **Height** 13.85, **No./splines** 19, **No./teeth** 12

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**137979** Gear Wheel

**Replacing:** 028630-5010

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 6.00, **OD** 21.55, **Height** 7.40, **No./teeth** 15

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**138569** Gear Wheel

**Replacing:** 028371-1500

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**ID** 30.00, **OD** 49.50, **Height** 17.40, **No./teeth** 31

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**138570** Gear Wheel

**Replacing:** 028371-3251, 028371-1420, 028371-1220

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4512, 028000-4540, 028000-4940, 028000-4990

**ID** 21.95, **OD** 34.90, **Height** 13.80, **No./teeth** 26

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Pkg. 10

## 139455# Gear Wheel

**Replacing:** 028371-1410, 028371-1210

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4940, 028000-4990, 028000-5060, 028000-5190

**ID** 9.30, **OD** 20.85, **Height** 13.80, **No./splines** 19, **No./teeth** 14

## 231803 Gear Wheel

**Replacing:** 028371-7190, 028371-6620, 028371-6380

**Servicing:** 128000-7002, 128000-7010, 128000-7122, 128000-7140, 128000-7390, 128000-7500, 128000-7560, 128000-7561, 128000-7562

**ID** 22.00, **OD** 35.55, **Height** 11.85, **No./teeth** 26

## 233546 Gear Wheel

**Replacing:** 028371-5010

**Servicing:** 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560, 228000-0200, 228000-0390

**ID** 21.90, **OD** 37.35, **Height** 13.85, **No./teeth** 27

## 235140 Gear Wheel

**Replacing:** 028371-3200

**Servicing:** 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683, 128000-4684

**ID** 13.19, **OD** 24.67, **Height** 17.91, **No./splines** 18, **No./teeth** 13

## 235211 Gear Wheel

**Replacing:** 028371-3210

**Servicing:** 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683, 128000-4684

**ID** 30.22, **OD** 50.60, **Height** 17.30, **No./teeth** 31

Pkg. 10

## 237012 Gear Wheel

**Replacing:** 028371-7070

**Servicing:** 028000-6550, 028000-7600, 028000-8570, 028000-8580, 028000-8581, 128000-1220, 128000-1230, 128000-2210, 128000-2830

**OD** 21.60, **Height** 14.00, **No./splines** 21, **No./teeth** 14

### Various

Pkg. 5

## 132895 Roller Housing

**Replacing:** 028063-0040, 028063-0011

**Servicing:** 028000-6962, 028000-7351, 028000-8430, 028000-9030, 028000-9711, 128000-0140, 128000-2130, 128000-2210, 128000-5750

**ID** 11.48, **OD** 21.00, **Height** 11.12

*Roller: HC-CARGO 132896.*

## 135474 Roller Housing

**Replacing:** 028063-0030

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**OD** 28.70

*Roller: HC-CARGO 132885.*

Pkg. 10

## 137365 Washer

**ID** 11.55, **OD** 15.00, **Thickness** 3.08, **Material** Steel

Pkg. 10

## 138148 Washer

**Replacing:** 028327-0171, 028327-0170

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**ID** 15.25, **OD** 39.80, **Thickness** 0.55, **Material** Steel

## 139829# Gear Housing

**Replacing:** 028410-5040, 028410-5010

**Servicing:** 128000-3530, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341

**ID** 15.00, **OD** 68.00

Pkg. 10

## 230058 Washer

**Replacing:** 949013-8090

**Servicing:** 028000-5910, 028000-5911, 028000-8440, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212

**ID** 7.75, **OD** 17.80, **Thickness** 0.60, **Material** Steel

Pkg. 5

## 230059 Washer

**Replacing:** 949013-8100

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 15.15, **OD** 26.00, **Thickness** 0.40, **Material** Steel

Pkg. 5

## 233690 Washer

**Replacing:** 949013-8110

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 15.20, **OD** 25.90, **Thickness** 1.80, **Material** Metal

Pkg. 10

## 234977 Roller Housing

**Servicing:** 128000-4663, 228000-4980, 228000-4981, 228000-4982

**ID** 10.90, **OD** 20.65, **Height** 13.00

# Levers

## 133812 Lever

**Replacing:** 028740-5010

**Servicing:** 128000-2520, 128000-2631, 128000-2800, 128000-2820, 128000-3090, 128000-3091, 128000-3250, 128000-3251, 128000-3260

**Dist.** 20.45, **Length** 75.00

## 139051 Lever

**Replacing:** 028740-5060

**Servicing:** 128000-2611, 128000-2621, 128000-2800, 128000-2980, 128000-4020, 128000-4040, 128000-4050, 128000-4060, 128000-4070

**Dist.** 20.30, **Length** 75.30

## 139052 Lever

**Replacing:** 028740-0490

**Servicing:** 028000-4630, 028000-4631, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6380

**Dist.** 24.75, **Length** 82.20

## 139271# Lever

**Replacing:** 028740-0281, 028740-0280

**Servicing:** 028000-0197, 028000-0370, 028000-0430, 028000-1010, 028000-1011, 028000-1370, 028000-1850, 028000-1970, 028000-1971

**Dist.** 24.00, **ID** 6.00, **Length** 87.40

## 139492 Lever

**Replacing:** 028740-5150

**Servicing:** 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211, 128000-6212, 128000-6420

**Dist.** 20.35, **Length** 72.90

## 139883# Lever

**Replacing:** 028740-0540

**Servicing:** 028000-7651, 028000-8010, 028000-8160, 028000-8690, 028000-8700, 028000-8770, 028000-9090, 028000-9091, 028000-9100

**Dist.** 24.70, **ID** 4.55, **Length** 83.80

## 139884 Lever

**Replacing:** 028740-5140

**Servicing:** 128000-4230, 128000-5210, 128000-5211, 128000-6340, 128000-6341, 128000-6720, 128000-6721, 128000-7620, 128000-8870

**Dist.** 20.40, **Length** 72.50

## 235253 Lever Kit

**Servicing:** 228000-9540

**Dist.** 18.71, **ID** 7.02, **Length** 74.39



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#Available while stock last, * Program development.

**235313** Lever

**Replacing:** 23322-6T000

**Length** 109.16

## Clutches

**134806** Clutch

**Replacing:** 028300-7000, 028300-6850, 028300-5300, 028300-2222, 028300-2220, 028300-2081, 028099-5730

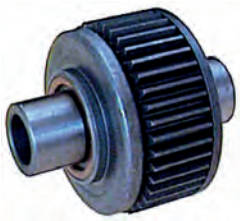
**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4540, 028000-4940, 028000-5060, 028000-5730

**Total length** 64.00, **Splines A** 10

**134806Z** Clutch

**Replacing:** 028300-7000, 028300-6850, 028300-5300, 028300-3930, 028300-2222, 028300-2220, 028300-2081

**OD** 53.50, **Total length** 64.00



**138155**# Clutch

**Replacing:** 028099-3150

**Servicing:** 028000-7600, 028000-9800, 128000-1220, 128000-1230, 128000-1790, 128000-2210, 128000-2830, 128000-4610, 128000-7200

**Total length** 64.00, **Rotation** ACR

**138681** Clutch

**Replacing:** 028300-5381, 028300-5380, 028300-1971

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**OD** 47.00, **Total length** 92.00, **No./teeth** 35, **Drive type** Steel, **Rotation** CR

**138804**# Clutch

**Replacing:** 028300-5701

**Servicing:** 128000-3471, 128000-3472, 128000-3481, 128000-3482, 128000-5941, 128000-5942, 128000-5951, 128000-5952, 128000-7190

**Total length** 92.00, **Rotation** ACR

**139840** Clutch

**Replacing:** 028301-0020

**Servicing:** 128000-7390, 128000-8310, 128000-8311, 128000-8312, 128000-8400, 128000-9710, 128000-9720, 228000-0420, 228000-0820

**Total length** 80.50, **Rotation** ACR

**230254** Clutch

**Replacing:** 028301-0030

**Servicing:** 128000-8320, 128000-8321, 128000-8322, 128000-8323, 128000-8480, 228000-0230, 228000-0231, 228000-7140, 228000-7141

**Total length** 52.00, **Rotation** ACR

**230857** Clutch

**Replacing:** 028301-0500, 028301-0220, 028301-0190, 028301-0080

**Servicing:** 128000-6210, 128000-6211, 128000-7002, 128000-7122, 128000-7560, 128000-8210, 128000-8220, 128000-8260, 128000-8784

**Total length** 52.00

**233180** Clutch

**Replacing:** 028300-6751, 028300-6750, 028300-4170

**Servicing:** 028000-5651, 028000-5652, 028000-5880, 028000-6010, 028000-6012, 028000-6013, 028000-6020, 028000-6021, 028000-6022

**OD** 16.50, **Total length** 92.00, **No./splines** 5, **Rotation** CR

**234719** Clutch

**Servicing:** 128000-8110, 128000-8111, 128000-8380

**Total length** 56.50

**237552** 5★ Clutch

**Manufacturer:** Denso

**Replacing:** 028300-9571

**Servicing:** 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-0700, 428000-0701, 428000-3090, 428000-3092

**OD** 44.75, **Total length** 94.75, **No./splines** 18, **Rotation** ACR

## Brush Gears

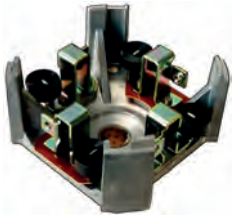
**132559** Brush Gear
**Replacing:** 028510-0560
**Servicing:** 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6380, 028000-6381
12 **V**, **OD** 59.75

**132871** Brush Gear
**Replacing:** 028510-0441
**Servicing:** 028000-3641, 028000-3642, 028000-4000, 028000-4020, 028000-4200, 028000-4243, 028000-4250, 028000-4323, 028000-4340
12 **V**, **OD** 71.45
*Neg. brushes. Brush set: HC-CARGO 140362.*

**132872** Brush Gear
**Replacing:** 028510-5510, 028510-5320, 028510-0750
**Servicing:** 028000-5730, 028000-5800, 028000-7700, 028000-8980, 028000-9270, 028000-9320, 028000-9321, 028000-9380, 028000-9860
12 **V**, **OD** 58.90

**132873** Brush Gear
**Replacing:** 028510-5500, 028510-0840, 028510-0640
**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373, 028000-7660
12 **V**, **OD** 74.70
*Neg. brushes. Brush set: HC-CARGO 140364.*

**132874** Brush Gear
**Replacing:** 028510-5390, 028510-0500
**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5490, 028000-5510, 028000-5511, 028000-5530, 028000-5531
12/24 **V**, **OD** 77.60
*Neg. brushes. Brush set: HC-CARGO 140361.*



**133337** Brush Gear
**Replacing:** 028500-0551, 028500-0550
**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4870, 028000-4930, 028000-5040
12 **V**, **OD** 121.00
*Brush set: HC-CARGO 140393.*

**133660** 5★ Brush Gear
**Manufacturer:** Denso
**Replacing:** 028510-0580
**Servicing:** 028000-7600, 028000-8580, 028000-8581, 128000-1220, 128000-3380, 128000-3381, 128000-3470, 128000-3471, 128000-3472
12 **V**, **OD** 63.30
*Neg. brushes. Brush set: HC-CARGO 140362.*

**133661** 5★ Brush Gear
**Manufacturer:** Denso
**Replacing:** 028510-5310, 028510-0661, 028510-0660, 028510-0480, 028510-0460
**Servicing:** 028000-4540, 028000-4550, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000, 028000-6001, 028000-6030
12 **V**, **OD** 63.25
*Neg. brushes. Brush set: HC-CARGO 140362.*

**133709** 5★ Brush Gear
**Manufacturer:** Denso
**Replacing:** 028512-5040
**Servicing:** 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400
12 **V**, **OD** 51.20
*Brush: HC-CARGO 140570. Brush spring: HC-CARGO 133710.*

**133715** Brush Gear
**Replacing:** 028510-5270, 028510-0632
**Servicing:** 028000-8411, 028000-9133, 028000-9872, 028000-9880, 028000-9882, 028000-9883, 128000-0080, 128000-1190, 128000-1431
12 **V**, **OD** 62.85
*Neg. brushes. Brush set: HC-CARGO 140566.*

**133808** Brush Gear
**Replacing:** 028514-5020
**Servicing:** 128000-2520, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980, 128000-3090, 128000-3091
12 **V**, **OD** 68.80
*Brush set: HC-CARGO 140602. Brush springs: HC-CARGO 133810.*

**136103** 5★ Brush Gear
**Manufacturer:** Denso
**Replacing:** 028510-5190
**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211
12 **V**, **OD** 58.00
*Neg. brushes. Brush set: HC-CARGO 140740.*
**Alternative no.:** 335007



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All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 136314 Brush Gear

**Replacing:** 028510-0830

**Servicing:** ACR, 028000-9510, 028000-9800, 128000-1230, 128000-1260, 128000-2210, 128000-2830, 128000-3480, 128000-3481

12 **V**, **OD** 66.20

*ACR. Neg. brushes. Brush set: HC-CARGO 140396.*

## 137021 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-5010

**Servicing:** 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-3250, 128000-3260, 128000-5350, 128000-5760, 128000-9560

12 **V**, **OD** 81.50

*Neg. brushes. Brush set: HC-CARGO 140364.*

## 137955 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-5450, 028510-5360

**Servicing:** 128000-7010, 128000-7122, 128000-7560, 128000-7561, 128000-7562, 128000-7712, 128000-7713, 128000-7714, 128000-8220

12 **V**, **OD** 64.00

*Neg. brushes. Brush set: HC-CARGO 140740.*

## 138385# 5★ Brush Gear

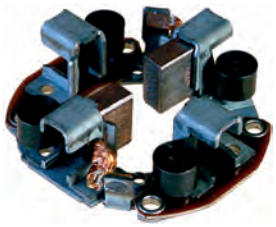
**Manufacturer:** Denso

**Replacing:** 028510-0230

**Servicing:** 028000-2150, 028000-2151, 028000-4651, 028000-4790, 028000-4840, 028000-5070, 028000-5071, 028000-5350, 028000-5720

12 **V**, **OD** 78.80

*Neg. brushes. Brush set: HC-CARGO 140357.*



## 138419 Brush Gear

**Replacing:** 028510-5660, 028510-5350

**Servicing:** 028000-8620, 128000-7002, 128000-7500, 128000-8030, 128000-8210, 128000-8350, 128000-8360, 128000-9300, 128000-9310

12 **V**, **OD** 59.00

*Neg. brushes. Brush set: HC-CARGO 140362.*

## 138672 Brush Gear

**Replacing:** 028510-0880

**Servicing:** 128000-0490, 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683

24 **V**, **OD** 95.75

*Brush set: HC-CARGO 140963.*

## 139150 Brush Gear

**Replacing:** 028510-6020, 028510-5800

**Servicing:** 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690, 228000-2700

12 **V**, **OD** 61.00

*Neg. brushes. Brush set: HC-CARGO 140961.*

## 139488 Brush Gear

**Servicing:** 128000-1180, 128000-1181

12 **V**, **OD** 74.75

*Neg. brushes. Brush set: HC-CARGO 140364.*

## 233813 Brush Gear

**Servicing:** 228000-4960, 228000-4961, 228000-7710

12 **V**, **OD** 65.00

*Neg. brushes. Brush set: HC-CARGO 140961.*

## 235049 5★ Brush Gear

**Manufacturer:** Denso

**Replacing:** 028510-0651

**Servicing:** 028000-7040, 028000-7042, 028000-7051, 028000-7052, 028000-8422, 028000-9620, 028000-9622, 028000-9623, 128000-0800

12 **V**, **OD** 62.75

*Brush positiv: HC-CARGO 141240.*

## 237885 Brush Gear

**Servicing:** 428000-0660, 428000-0720, 428000-1620, 428000-1940, 428000-1941

12 **V**, **OD** 64.00

## 330439 Brush Gear

**Servicing:** 428000-1630, 428000-3180, 428000-4920, 428000-6200

12 **V**, **OD** 63.07

**331960** Brush Gear
**Servicing:** 428000-1760
12 **V**, **OD** 64.42

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**NEW PRODUCT**
**www.hc-cargo.com**

**332359** Brush Gear
**Servicing:** 428000-4600, 428000-5510, 428000-5511, 428000-6360, 428000-6760, DSN967
12 **V**, **OD** 65.08

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**332665** 5★ Brush Gear
**Manufacturer:** Denso
**Replacing:** 128099-6312, 028510-7620
**Servicing:** 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-3090, 428000-3092
12 **V**, **OD** 57.50

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**333422** Brush gear
**OD** 68.00

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**335007** Brush Gear
**Replacing:** 028510-5190
**Servicing:** 128000-2680, 128000-2682, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211, 128000-6212, 128000-6421
**OD** 58.00
**Alternative no.:** 136103 5★

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## Brush Gear Parts

### Brush Springs

Pkg. 10

**132551** Brush Spring
**Replacing:** 949173-0571
**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541
**Length** 26.50

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Pkg. 10

**132552** Brush Spring
**Replacing:** 949173-0610
**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373, 028000-7660
**Length** 22.50

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Pkg. 10

**132887** Brush Spring
**Replacing:** 949173-0461
**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4512, 028000-4540
**Length** 23.20

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Pkg. 10

**133710** Brush Spring
**Replacing:** 949170-9100
**Servicing:** 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400
**Length** 19.00

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Pkg. 10

**133810** Brush Spring
**Replacing:** 028520-5010
**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980, 128000-3090
**OD** 6.20, **Length** 22.00

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Pkg. 4

**136104** Brush Spring
**Replacing:** 028520-5030
**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211
**OD** 11.70, **Length** 20.45

---

Pkg. 4

**137700** Brush Spring
**Replacing:** 949173-0600
**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973
**OD** 11.40, **Length** 20.90

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#Available while stock last, * Program development.

## 233868 Brush Spring Set

**Replacing:** 128953-0080

**Servicing:** 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690, 228000-2700

**OD** 11.50, **Length** 22.70

Pkg. 10

## 239475 Brush Spring

**Servicing:** 228000-1180, 228000-3981, 228000-4960, 228000-4961, 228000-7710, 228000-7800, 228000-7801, 428000-6200

**OD** 11.70, **Length** 20.00

## Brush Sets

Pkg. 5

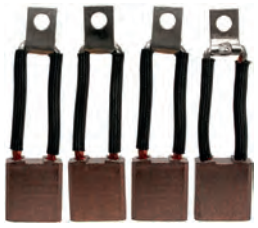
## 140356 Brush Set

**Replacing:** 028531-0110

**Servicing:** 028000-0197, 028000-1010, 028000-1011, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975, 028000-1976

12 **V**, **Length** 16.00, **Lead length** 36.50, **Height** 12.00, **Thickness** 7.00

Pkg. 5



## 140358 Brush Set

**Replacing:** 028530-0390, 028530-0341

**Servicing:** 028000-2880, 028000-3530, 028000-3570, 028000-4850, 028000-5160

12 **V**, **Length** 22.00, **Lead length** 50.00, **Height** 20.00, **Thickness** 8.00

## 140359 Brush Set

**Replacing:** 028531-0350, 028531-0300, 028531-0230

**Servicing:** 028000-0370, 028000-0430, 028000-1370, 028000-1850, 028000-2000, 028000-2001, 028000-2150, 028000-2151, 028000-2240

12 **V**, **Length** 19.00, **Lead length** 26.00, **Height** 12.00, **Thickness** 7.00

## 140360 Brush Set

**Replacing:** 028531-0380

**Servicing:** 028000-2260, 028000-2261, 028000-2262, 028000-2263, 028000-2360, 028000-2361, 028000-2362, 028000-2363, 028000-2364

12 **V**, **Length** 16.00, **Lead length** 38.50, **Height** 12.00, **Thickness** 7.00

## 140361 Brush Set

**Replacing:** 028531-5651, 028531-5650, 028531-0632, 028099-3570, 028099-3560

**Servicing:** 028000-4800, 028000-5000, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5520, 028000-5530, 028000-5531

12 **V**, **Length** 21.00, **Lead length** 40.80, **Height** 25.00, **Thickness** 8.00

*Brush set w/ plate: HC-CARGO 141223.*

## 140362 Brush Set

**Replacing:** 028531-0946, 028531-0450, 028099-2770, 028099-2670, 028099-2628, 028099-2620, 028099-0770

**Servicing:** 028000-3641, 028000-3642, 028000-4000, 028000-4020, 028000-4200, 028000-4243, 028000-4250, 028000-4323, 028000-4340

12 **V**, **Length** 14.00, **Lead length** 34.00, **Height** 16.00, **Thickness** 7.00

## 140363 Brush Set

**Replacing:** 028531-3510, 028531-0680, 028099-3510

**Servicing:** 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6380, 028000-6381

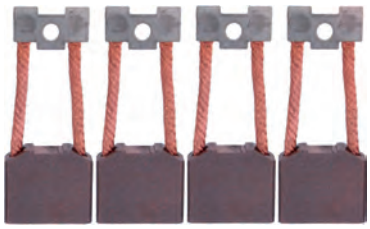
12 **V**, **Length** 16.00, **Lead length** 27.00, **Height** 10.00, **Thickness** 6.50

## 140364 Brush Set

**Replacing:** 028531-5630, 028531-0840, 028099-7171, 028099-7170

**Servicing:** 028000-5620, 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373

12 **V**, **Length** 15.00, **Lead length** 44.50, **Height** 25.00, **Thickness** 8.00



## 140393 Brush Set

**Replacing:** 385300-480, 028530-0487, 028530-0481, 028530-0480

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4870, 028000-4930, 028000-5040

12 **V**, **Length** 26.00, **Lead length** 47.00, **Height** 30.00, **Thickness** 9.00

## 140396 Brush Set

**Replacing:** 028531-0730, 028531-0720, 028099-3430

**Servicing:** 028000-4540, 028000-4550, 028000-5800, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000, 028000-6001

12 **V**, **Length** 13.50, **Lead length** 23.00, **Height** 16.00, **Thickness** 7.00



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#Available while stock last, * Program development.

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Pkg. 10

## 140566 Brush

**Replacing:** 028530-1031, 028530-1030, 028530-1021, 028530-1020, 028530-0980, 028530-0933, 028530-0932

**Servicing:** 028000-8411, 028000-9133, 028000-9872, 028000-9880, 028000-9882, 028000-9883, 128000-1431, 128000-2760, 128000-2950

12 **V**, **Length** 12.00, **Lead length** 29.80, **Height** 9.00, **Thickness** 6.00

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Pkg. 5

## 140570 Brush

**Replacing:** 028530-5061, 028530-5060

**Servicing:** 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400

12 **V**, **Length** 7.50, **Lead length** 23.00, **Height** 9.00, **Thickness** 5.00

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## 140602 Brush Set

**Replacing:** 028531-6660, 028531-5050, 028099-5450

**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980, 128000-3090

12 **V**, **Length** 10.00, **Lead length** 30.50, **Height** 8.00, **Thickness** 6.50

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## 140647 Brush Set

**Replacing:** 028099-3980

**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220, 028000-9221, 028000-9230

12 **V**, **Length** 18.00, **Lead length** 31.50, **Height** 13.00, **Thickness** 7.50

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## 140740 Brush Set

**Replacing:** 028099-6180

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211

12 **V**, **Length** 14.00, **Lead length** 25.00, **Height** 13.00, **Thickness** 6.50

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## 140885 Brush Set

**Servicing:** 128000-7010, 128000-7120, 128000-7121, 128000-7122, 128000-7130, 128000-7390, 128000-7710, 128000-7711, 128000-7712

12 **V**, **Length** 15.50, **Lead length** 29.00, **Lead length 2** 22.50, **Height** 13.00, **Thickness** 7.00

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Pkg. 10

## 140932 Brush Set

**Replacing:** 028099-3950

**Servicing:** 028000-5730, 028000-8980, 028000-9380, 028000-9510, 028000-9800, 128000-0050, 128000-0111, 128000-0170, 128000-0171

12 **V**, **Length** 14.00, **Lead length** 36.50, **Height** 16.00, **Thickness** 7.00

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## 140961 Brush Set

**Replacing:** 128099-6740

**Servicing:** 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682, 228000-2690

12 **V**, **Length** 15.50, **Lead length** 33.00, **Height** 25.00, **Thickness** 7.00

---

## 140963 Brush Set

**Replacing:** 028530-1100, 028530-1090

**Servicing:** 128000-0490, 128000-2450, 128000-2470, 128000-2560, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683

12/24 **V**, **Length** 21.00, **Lead length** 33.00, **Height** 30.00, **Thickness** 10.00

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## 140976 Brush Set

**Replacing:** 28142-54070, 028099-3550

**Servicing:** 028000-7370, 028000-7660, 028000-9030, 128000-0020, 128000-0040, 128000-6400, 228000-0400, 228000-0640, 228000-0691

12 **V**, **Length** 15.00, **Lead length** 41.50, **Lead length 2** 30.00, **Height** 25.00, **Thickness** 8.00

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## 141223 Brush Set

**Servicing:** 028000-5581, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892, 028000-6910, 028000-8070, 028000-8071

12 **V**, **Length** 21.00, **Lead length** 40.50, **Height** 25.00, **Thickness** 8.00
*w/o plate: HC-CARGO 140361.*

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## 141240 Brush

**Replacing:** 028530-5031, 028530-5030, 028530-0991, 028530-0990

**Servicing:** 028000-8422, 028000-9620, 028000-9622, 028000-9623, 128000-1550, 128000-1551, 128000-5191, 128000-5491, 128000-7490

12 **V**, **Length** 12.00, **Lead length** 30.00, **Height** 8.90, **Thickness** 5.90
*Positive.*

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#Available while stock last, * Program development.

## 141258 Brush Set

**Servicing:** 428000-0670, 428000-0680, 428000-0700, 428000-0701, 428000-1640, 428000-1750

12 **V**, **Length** 15.30, **Height** 14.10, **Thickness** 4.50

## 141267 Brush Set

**Servicing:** 228000-9900, 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-1080, 428000-3090, 428000-3092

12 **V**, **Length** 9.50, **Lead length** 31.00, **Lead length 2** 21.00, **Height** 8.50, **Thickness** 4.50/7.00

## 142031 Brush

**Servicing:** 428000-1650, 428000-3361

12 **V**, **Length** 15.30, **Lead length** 26.00, **Lead length 2** 30.50, **Height** 14.00, **Thickness** 4.50

## 142040 Brush Set

**Servicing:** 428000-0660, 428000-0720, 428000-1620, 428000-1940, 428000-1941

12 **V**, **Length** 15.50, **Lead length** 25.00, **Lead length 2** 33.00, **Height** 20.00, **Thickness** 7.00

## 142066 Brush Set

**Servicing:** 428000-1630, 428000-3180, 428000-4920, 428000-6200

12 **V**, **Length** 15.70, **Lead length** 35.00, **Height** 19.86, **Thickness** 6.93

## 332130 Brush Set

**Servicing:** 428000-3370, 428000-3371, 428000-3372

12 **V**, **Length** 13.65, **Lead length** 24.35, **Height** 13.90, **Thickness** 4.43

## 332362 Brush Set

**Servicing:** 428000-4600, 428000-5510, 428000-5511, 428000-6360, 428000-6760, DSN967

12 **V**, **Length** 12.12, **Lead length** 27.45, **Height** 18.83, **Thickness** 5.33

## 332847 Brush Set

**Servicing:** 428000-4500, 428000-4550

12 **V**, **Length** 14.70, **Lead length** 25.00, **Lead length 2** 34.00, **Height** 13.85, **Thickness** 5.35

## JSX72-734 Brush Set

**Replacing:** 028531-7340, 028531-7331

12 **V**, **Length** 16.00, **Lead length** 32.50, **Lead length 2** 25.00, **Height** 20.00, **Thickness** 7.00

## JSX74-75-76-774 Brush Set

**Replacing:** 028531-6420, 028531-6410, 028531-6400, 028531-6390

12 **V**, **Length** 14.30/15.30, **Lead length** 32.88, **Height** 14.00, **Thickness** 4.50

## Bushings

Pkg. 10

## 140325 Bushing

**Replacing:** 949103-2020, 949103-1320, 949103-0540

**Servicing:** 028000-0970, 028000-1975, 028000-1976, 028000-2001, 028000-2151, 028000-2241, 028000-2260, 028000-2261, 028000-2262

**ID** 12.54, **OD** 16.55, **Length** 14.00

Pkg. 10

## 140326 Bushing

**Replacing:** 028403-0082, 028403-0081

**Servicing:** 028000-0197, 028000-0370, 028000-0430, 028000-1010, 028000-1011, 028000-1370, 028000-1850, 028000-1970, 028000-1971

**ID** 12.54, **OD** 14.72, **Length** 14.00

**Alternative no.:** B140326

Pkg. 10

## 140329 Bushing

**Replacing:** 028403-0060
**Servicing:** 028000-2580, 028000-2585
**ID** 14.00, **OD** 16.20, **Length** 21.20

Pkg. 10

## 140330 Bushing

**Replacing:** 028403-0139, 028403-0131, 028403-0130
**Servicing:** 028000-2450, 028000-2580, 028000-2585, 028000-2880, 028000-3300, 028000-3530, 028000-3570, 028000-3810, 028000-3811
**ID** 14.20, **OD** 16.30, **Length** 19.80

Pkg. 10

## 140333 Bushing

**Replacing:** 949103-3160
**Servicing:** 028000-3730, 028000-5330, 028000-5331, 028000-5332, 028000-5333, 028000-5334, 028000-5335, 028000-6380, 028000-6381
**ID** 12.53, **OD** 15.50, **Length** 10.50
**Alternative no.:** B140333

Pkg. 10

## 140424 Bushing

**Replacing:** 949103-3600
**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220, 028000-9221, 028000-9230
**ID** 10.10, **OD** 15.50, **Length** 10.40

Pkg. 10

## 140425 Bushing

**Replacing:** 949103-3610
**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220, 028000-9221, 028000-9230
**ID** 11.00, **OD** 14.70, **Length** 12.80

Pkg. 10

## 140426 Bushing

**Replacing:** 949103-3840
**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980, 128000-3090
**ID** 11.05, **OD** 14.72, **Length** 8.00
**Alternative no.:** B140426

Pkg. 10

## 140427 Bushing

**Replacing:** 949103-3850
**Servicing:** 128000-2520, 128000-2610, 128000-2611, 128000-2621, 128000-2631, 128000-2680, 128000-2682, 128000-2820, 128000-2980
**ID** 11.05, **OD** 14.72, **Length** 11.00

Pkg. 10

## 140554 Bushing

**ID** 22.71, **OD** 28.50, **Length** 5.90
**Alternative no.:** B140554

Pkg. 10

## 140579 Bushing

**ID** 12.60, **OD** 15.50, **Length** 12.80

Pkg. 10

## 140582 Bushing

**ID** 12.70, **OD** 14.40, **Length** 12.80

Pkg. 10

## 140583 Bushing

**ID** 12.53, **OD** 14.02, **Length** 10.50
**Alternative no.:** B140583

Pkg. 10

## 140697 Bushing

**ID** 23.90, **OD** 29.30, **Length** 5.95
**Alternative no.:** B140697

Pkg. 10

## 140774 Bushing

**Servicing:** 028403-0070
**ID** 23.93, **OD** 29.30, **Length** 6.03
**Alternative no.:** B140774



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#Available while stock last, * Program development.

Pkg. 5

## 140777 Bushing

**Replacing:** 949102-0070

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3970, 028000-5250, 028000-5960, 028000-5961

**ID** 17.00, **OD** 19.00, **Length** 19.70

Pkg. 5

## 140778 Bushing

**Replacing:** 949103-2420

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3970, 028000-5960, 028000-5961, 128000-3280

**ID** 30.10, **OD** 35.00, **Length** 22.95

Pkg. 10

## 140787 Bushing

**Servicing:** 228000-6120, 228000-6121, 228000-6122, 228000-8360, 428000-0700, 428000-0701, 428000-4051, 428000-5410

**ID** 6.10, **OD** 10.00, **Length** 7.45

Pkg. 10

## 140788 Bushing

**Replacing:** 949104-0990

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6210, 128000-6211

**ID** 7.09, **OD/collar** 13.00, **OD** 9.51, **Length** 11.20, **Height/collar** 2.00

Pkg. 10

## 140792 Bushing

**Replacing:** 949103-4330

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 15.00, **OD** 18.50, **Length** 11.20

Pkg. 10

## 140847 Bushing

**ID** 23.02, **OD** 28.60, **Length** 4.05

**Alternative no.:** B140847

Pkg. 10

## 140937 Bushing

**ID** 10.97, **OD** 13.62, **Length** 19.90

**Alternative no.:** B140937

Pkg. 10

## 140965 Bushing

**Replacing:** 949103-4320

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 7.12, **OD** 9.60, **Length** 8.10

Pkg. 10

## 141011 Bushing

**Replacing:** 949103-4340

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341, 128000-6420, 128000-6422

**ID** 11.15, **OD** 14.70, **Length** 9.80

Pkg. 10

## 141073# Bushing

**ID** 23.25, **OD** 28.55, **Length** 5.00

Pkg. 10

## 141080# Bushing

**ID** 23.05, **OD** 28.64, **Length** 3.80

Pkg. 10

## 141105 Bushing

**Servicing:** Iveco

**ID** 7.07, **OD** 9.60, **Length** 10.00

Pkg. 10

## 141136 Bushing

**Servicing:** 028000-2240, 028000-2930, 028000-3500, 028000-3800, 028000-4040, 028000-4600, 028000-4630, 028000-4650

**ID** 12.55, **OD** 14.00, **Length** 19.00



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Pkg. 10

## 141153 Bushing

**Replacing:** 028403-0200
**Servicing:** 028000-2380, 028000-5090, 028000-7170, 428000-4051, 428000-5410
**ID** 11.03, **OD** 13.23, **Length** 12.70

Pkg. 10

## 141154 Bushing

**Servicing:** 128000-1050, 128000-1770
**ID** 22.85, **OD** 28.65, **Length** 5.80

Pkg. 10

## 141155 Bushing

**ID** 23.05, **OD** 28.50, **Length** 3.95

Pkg. 10

## 141205 Bushing

**Servicing:** 228000-3981, 228000-4960, 228000-4961
**ID** 23.05, **OD** 28.64, **Length** 3.76

Pkg. 10

## 141235 Bushing

**Replacing:** 028403-0073, 028403-0070
**Servicing:** 028000-3290, 028000-3930, 028000-3970, 028000-4130, 028000-4131, 028000-4150, 028000-5250, 028000-5960, 028000-5961
**ID** 16.52, **OD** 19.10, **Length** 20.00

Pkg. 10

## 141237 Bushing

**Replacing:** 949103-0390
**Servicing:** 028000-1370, 028000-1850, 028000-1975, 028000-1976, 028000-2000, 028000-2150, 028000-2240, 028000-2241, 028000-2260
**ID** 12.40, **OD** 16.55, **Length** 10.40

## 141238 Bushing

**Replacing:** 949103-1660
**Servicing:** 028000-0370, 028000-2260, 028000-2261, 028000-2262, 028000-2263, 028000-2360, 028000-2361, 028000-2362, 028000-2363
**ID** 23.04, **OD** 26.07, **Length** 8.45

Pkg. 10

## 141249 Bushing

**Servicing:** 128000-0350, 128000-0351, 128000-1890, 428000-0670, 428000-0680, 428000-0700, 428000-0701, 428000-1640, 428000-1650
**ID** 7.02, **OD/collar** 13.00, **OD** 9.50, **Length** 9.25, **Height/collar** 2.00

Pkg. 10

## 142011 Bushing

**Servicing:** 428000-0150, 428000-0151, 428000-0152, 428000-0670, 428000-0680, 428000-0700, 428000-0701, 428000-0720, 428000-1760
**ID** 18.00, **OD** 21.00, **Length** 8.90

## 142015 Bushing

**Servicing:** 428000-0150, 428000-0151, 428000-0152, 428000-3090
**ID** 5.02, **OD** 7.97, **Length** 7.15

Pkg. 10

## 142083 Bushing

**Servicing:** 428000-6200, 428000-6360, 428000-6760
**ID** 18.06, **OD** 20.98, **Length** 8.97

Pkg. 10

## 331981 Bushing

**ID** 7.10, **OD** 9.50, **Length** 8.20

Pkg. 10

## 332325 Bushing

**Servicing:** 228000-9252, 428000-4051, 428000-5410, 428000-6360, 428000-6760
**ID** 11.00, **OD** 13.10, **Length** 10.20

Pkg. 100

## B140033 Bushing

**Replacing:** 949103-3160
**ID** 14.30, **OD** 16.00, **Length** 11.50
**Alternative no.:** 140033



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Pkg. 100

**B140326** Bushing

**Replacing:** 028403-0082, 028403-0081

**ID** 12.55, **OD** 14.72, **Length** 14.00

**Alternative no.:** 140326

Pkg. 100

**B140554** Bushing

**Replacing:** 140554

**ID** 22.71, **OD** 28.50, **Length** 5.90

**Alternative no.:** 140554

Pkg. 100

**B140583** Bushing

**Replacing:** 140583

**ID** 12.53, **OD** 14.02, **Length** 10.50

**Alternative no.:** 140583

Pkg. 100

**B140774#** Bushing

**Replacing:** 140774

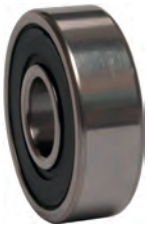
**ID** 23.93, **OD** 29.30, **Length** 6.03

**Alternative no.:** 140774

## Bearings

### Ball Bearings

Pkg. 10



**140222 FAG** 608-2RS-C3 Ball Bearing

**Replacing:** 949100-6080, 949100-6070, 949100-5820, 949100-5230, 949100-4120, 949100-2500, 949100-1360

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4512, 028000-4540

**ID** 8.00, **OD** 22.00, **Height** 7.00

**Alternative no.:** 142279, 333106

Pkg. 10

**140271 FAG** 6000-C-2HRS-C3 Ball Bearing

**Replacing:** 949100-2760

**Servicing:** 028000-5730, 028000-5800, 028000-6260, 028000-7700, 028000-8620, 028000-8980, 028000-9270, 028000-9320, 028000-9321

**ID** 10.00, **OD** 26.00, **Height** 8.00

**Alternative no.:** 142277, 333099

CAR GO **High Performance** Pkg. 10

**140960** 638-2RS-P Ball Bearing

**Replacing:** 949100-4840

**Servicing:** 100211-8000, 100211-8110, 100211-8240, 100211-8560, 228000-1180, 228000-2120, 228000-2121, 228000-2122, 228000-2123

**ID** 8.00, **OD** 28.00, **Height** 9.00

### Needle Bearings

Pkg. 10

**140767** Needle Bearing

**Replacing:** 949105-0200, 949105-0160, 949105-0100

**Servicing:** 128000-0660, 128000-2800, 128000-3090, 128000-3091, 128000-4130, 128000-4170, 128000-4430, 128000-4450, 128000-4520

**ID** 11.00, **OD** 15.50, **Height** 14.30

*Closed end.*

Pkg. 5

**140768** Needle Bearing

**Replacing:** 949105-0110

**Servicing:** 028000-6490, 028000-6491, 028000-6492, 028000-6493, 028000-6494, 028000-6495, 028000-7091, 028000-7092, 028000-7093

**ID** 12.48, **OD** 17.02, **Height** 17.00

Pkg. 10

**142065** Needle Bearing

**Servicing:** 428000-1630, 428000-3180, 428000-4920, 428000-6200

**ID** 12.00, **OD** 16.00, **Height** 14.00

*Closed end.*

## Repair Kits

**132635** Repair Kit

**Replacing:** 028099-6790

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3930, 028000-3970, 028000-4930, 028000-5040, 028000-5960

*12 V.*



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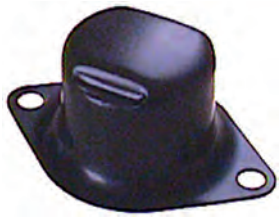
## Sundry Parts

### C.E. Covers

Pkg. 10



**136713** C.E. Bracket
**Replacing:** 028506-0170
**Servicing:** 028000-4050, 028000-4650, 028000-4651, 028000-4680, 028000-4681, 028000-4710, 028000-5334, 028000-5335, 028000-6380
**ID** 22.00, **OD** 24.35, **Height** 19.90
*Gasket: HC-CARGO 231213.*

### Oil Seals

Pkg. 5

**135851** Oil Seal
**Replacing:** 949150-1050
**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-3650, 028000-3810, 028000-3811, 028000-3930, 028000-3970, 028000-3971
**ID** 30.00, **OD** 42.10, **Height** 8.00

Pkg. 10

**138914** Oil Seal
**Servicing:** 028000-5880
**ID** 16.70, **OD** 21.55, **Height** 3.00

Pkg. 10

**235420** Oil Seal
**Servicing:** 228000-9540
**ID** 46.43, **OD** 58.17, **Height** 3.00

Pkg. 10

**237550** Oil seal
**Servicing:** 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-0700, 428000-0701, 428000-3090, 428000-3092
**ID** 19.95, **OD** 33.55, **Height** 3.50

### O-rings

Pkg. 10

**132891** O-ring
**Replacing:** 908012-0470
**Servicing:** 028000-5651, 028000-5652, 028000-6010, 028000-6013, 028000-6021, 028000-6022, 028000-7451, 028000-7452, 028000-8561
**ID** 48.00, **Thickness** 2.50

Pkg. 10

**132892** O-ring
**Replacing:** 949140-3700
**Servicing:** 028000-5730, 028000-5800, 028000-6260, 028000-7700, 028000-8370, 028000-8371, 028000-8620, 028000-8980, 028000-9320
**ID** 69.00, **Thickness** 2.00

Pkg. 10

**132893** O-ring
**Replacing:** 908012-0420
**Servicing:** 028000-5190, 028000-5780, 028000-5991, 028000-5992, 028000-7410, 128000-5040, 128000-5750, 128000-8220, 228000-2550
**ID** 43.00, **Thickness** 2.50

Pkg. 10

**132900** O-ring
**Replacing:** 949062-1010
**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4512, 028000-4940
**ID** 71.00, **Thickness** 2.00

Pkg. 5

**133717** O-ring
**Replacing:** 949140-5670, 949140-3440
**Servicing:** 028000-7040, 028000-7042, 028000-7051, 028000-7052, 028000-8411, 028000-8422, 028000-9133, 028000-9620, 028000-9622
**ID** 63.50, **Thickness** 1.60

Pkg. 10

**134484** O-ring
**Replacing:** 908041-0050
**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541
**ID** 5.00, **Thickness** 2.00

Pkg. 10

**134486** O-ring
**Servicing:** 028000-5730, 028000-5910, 028000-5911, 028000-6000, 028000-6001, 028000-7370, 028000-7372, 028000-7373, 028000-7600
**ID** 8.00, **Thickness** 2.00



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Pkg. 10

**134487** O-ring

**Servicing:** 028000-5581, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290, 028000-6291, 028000-6292

**ID** 10.00, **Thickness** 2.00

Pkg. 10

**134633** O-ring

**Replacing:** 90801-10060

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-5390, 028000-6190, 028000-6240, 028000-6250, 028000-6260, 028000-6261

**ID** 6.00, **Thickness** 2.00

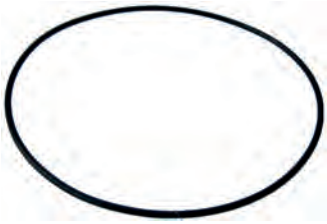
Pkg. 10

**135498** O-ring

**Servicing:** 128000-5560, 128000-5561, 228000-3330, 228000-3331, 228000-3332, 228000-5920, 228000-5922

**ID** 8.00, **Thickness** 2.50

Pkg. 10



**138433** O-ring

**Replacing:** 949140-3680

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373, 028000-7660

**ID** 70.00, **Thickness** 1.50

Pkg. 10

**139421** O-ring

**Servicing:** 028000-3290, 028000-3291, 028000-3292, 028000-5900, 028000-7002, 028000-7003, 028000-7004, 028000-7560, 028000-8321

**ID** 7.60, **Thickness** 1.80, **Material** Rubber

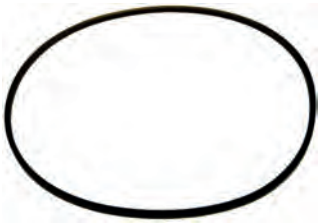
Pkg. 10

**139422** O-ring

**Servicing:** 028000-6250, 228000-1710, 228000-2630, 228000-3780, 228000-3800, 228000-3801, 228000-3802, 228000-4210, 228000-6612

**ID** 9.60, **Thickness** 1.80

Pkg. 5



**230147** O-ring

**Replacing:** 949140-4620

**Servicing:** 128000-0830, 128000-0831, 128000-0832, 128000-0833, 128000-5350, 128000-5760, 128000-9560, 228000-0200, 228000-0390

**ID** 80.00, **Thickness** 1.50

Pkg. 5

**232434** O-ring

**Servicing:** 28MT, 028000-5530, 028000-5620, 028000-6290, 028000-6291, 028000-6292, 028000-7240, 028000-7241, 028000-7242

**ID** 5.00, **Thickness** 1.80

Pkg. 10

**233084** O-ring

**Replacing:** 028901-0361

**Servicing:** 128000-2450, 128000-2470, 128000-2740, 128000-3361, 128000-4250, 128000-4682, 128000-4683, 128000-4684, 128000-4685

**ID** 95.00, **Thickness** 2.50

## Thru Bolts

Pkg. 10

**191530** Through Bolt

**Replacing:** 191530

**Servicing:** 228000-0570, 228000-0571, 228000-0572, 228000-0573, 228000-0574, 228000-0575, 228000-1590, 228000-1661, 228000-9050

**Total length** 79.00,
**Length/rear collar** 74.60,
**Thread length** 24.60, **Thread size** M6

Pkg. 10

**191531** Through Bolt

**Replacing:** 949006-5080

**Servicing:** 02131-9261, 02131-9262, 028000-4800, 028000-5660, 028000-5661, 028000-5860, 028000-5861, 028000-5862, 028000-5863

**Total length** 89.40,
**Length/rear collar** 85.10,
**Thread length** 25.30, **Thread size** M6



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Pkg. 10

## 230721 Through Bolt

**Replacing:** 949006-4930, 949006-3840

**Servicing:** 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541, 028000-5542

**Total length** 74.10,
**Length/rear collar** 68.75,
**Thread length** 24.75, **Thread size** M6

Pkg. 2

## 231374# Through Bolt

**Replacing:** 949042-3170, 949042-2920, 949042-2360

**Servicing:** 028000-4050, 028000-4650, 028000-4651, 028000-4680, 028000-4681, 028000-4710, 028000-5334, 028000-5335, 028000-6380

**Total length** 138.80,
**Length/rear collar** 133.20,
**Thread length** 16.50, **Thread size** M6

Pkg. 10

## 231627 Through Bolt

**Replacing:** 949042-3741, 949042-2270

**Servicing:** 028000-3850, 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532

**Total length** 186.10,
**Length/rear collar** 180.20,
**Thread length** 23.35, **Thread size** M6

Pkg. 10

## 231628# Through Bolt

**Replacing:** 949042-3520, 949042-3260

**Servicing:** 128000-2680, 128000-2682, 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6340, 128000-6341

**Total length** 119.80,
**Length/rear collar** 115.00,
**Thread length** 20.10, **Thread size** M5

Pkg. 10

## 231630# Through Bolt

**Replacing:** 949042-2570

**Servicing:** 028000-5730, 028000-7700, 028000-8980, 028000-9270, 028000-9320, 028000-9321, 028000-9380, 028000-9510, 028000-9800

**Total length** 154.00,
**Length/rear collar** 150.45,
**Thread length** 25.75, **Thread size** M5

Pkg. 10

## 234145 Through Bolt

**Replacing:** 949042-2860

**Servicing:** 028000-7000, 028000-7001, 028000-7002, 028000-7003, 028000-7004, 028000-7370, 028000-7372, 028000-7373, 028000-7740

**Total length** 86.40,
**Length/rear collar** 80.65,
**Thread length** 17.25, **Thread size** M6

## Various

Pkg. 5

## 131837 Terminal Cap

**Replacing:** 949340-0660, 028062-6180

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-4550, 028000-5120, 028000-5730, 028000-5780, 028000-5800, 028000-6000

**Height** 15.25

Pkg. 5

## 131838 Terminal Cap

**Replacing:** 949340-0820, 949340-0531

**Servicing:** 028000-3641, 028000-3642, 028000-4512, 028000-5821, 028000-5822, 028000-5900, 028000-5910, 028000-5911, 028000-5912

**Height** 15.10

Pkg. 5

## 132063 Insulator

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-4512, 028000-5821, 028000-5822, 028000-6140, 028000-6250, 028000-6260

**ID** 49.15, **OD** 65.15, **Height** 23.00

Pkg. 100

## 132886 Spring

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5531, 028000-5532, 028000-5541, 028000-5542

**OD** 7.00, **Length** 12.00
*Also used in plastic case on 2.50 kW.*



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Pkg. 10

## 132888 Rubber Drain

**Replacing:** 028062-5770, 028062-0480, 028062-0360, 028062-0200

**Servicing:** 028000-2360, 028000-2361, 028000-2362, 028000-2363, 028000-2364, 028000-3300, 028000-3360, 028000-3361, 028000-3500

**ID** 7.35, **OD** 9.25, **Length** 27.60

Pkg. 10

## 132889 Rubber Boot

**Replacing:** 480841-0010

**Servicing:** 028000-5530, 028000-5581, 028000-5620, 028000-5860, 028000-5861, 028000-5862, 028000-5863, 028000-5864, 028000-6290

**ID** 30.00

Pkg. 10

## 132894 Steel Ball

**Replacing:** 949120-0240, 128961-0010

**Servicing:** 028000-3641, 028000-3642, 028000-4323, 028000-4343, 028000-4450, 028000-4512, 028000-4540, 028000-4550, 028000-4800

**OD** 8.70, **Material** Steel

## 133708# Insulator

**Replacing:** 028523-5050

**Servicing:** 128000-2240, 128000-2241, 128000-2750, 128000-3390, 128000-3400, 128000-3780, 128000-9400

## 133716 Stop Collar Kit

**Replacing:** 028021-0291

**Servicing:** 028000-8411, 028000-8422, 028000-9133, 028000-9620, 028000-9622, 028000-9623, 028000-9872, 028000-9880, 028000-9882

Pkg. 5

## 133878 Connection

**Replacing:** 133877

**Servicing:** 128000-0461, 128000-2550, 128000-2551, 128000-2660, 128000-2670, 128000-3740, 128000-3741, 128000-8650, 128000-8660

**Mount. hole** 10.50, **Total length** 70.25

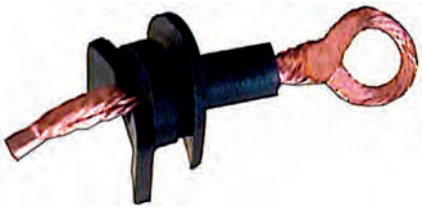
Pkg. 5

## 133879 Connection

**Servicing:** 128000-4060, 128000-4450, 128000-8690, 228000-8490, 228000-9252, 228000-9580, 428000-0950, 428000-3460, 428000-3470

**Mount. hole** 9.15, **Total length** 62.15

Pkg. 5



## 133880 Connection

**Servicing:** 028000-7460, 028000-7461, 028000-7462, 028000-7470, 028000-7471, 028000-9090, 028000-9091, 028000-9470, 028000-9900

**Mount. hole** 8.75, **Total length** 66.40

Pkg. 5

## 134328 Grommet

**Servicing:** 028000-4550, 028000-5900, 028000-5910, 028000-5911, 028000-5912, 028000-6000, 028000-6001, 028000-6030, 028000-6031

*Length: 79.00 mm.*

Pkg. 5

## 134329 Grommet

**Servicing:** 028000-8980, 028000-9270, 128000-0050, 128000-0620, 128000-0621, 128000-0622, 128000-0930, 128000-1050, 128000-1250

*Length: 67.00 mm.*

Pkg. 10

## 134788 Terminal Boot

**Servicing:** 128000-4663

**OD** 27.70

Pkg. 5

## 135127 Lock Washer

**Replacing:** 028017-0070, 028017-0050

**Servicing:** 028000-0197, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975

**ID/housing** 20.00, **Thickness** 1.50, **Type** Lock washer, **Material** Steel



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 135128# Lock Washer

**Replacing:** 028017-0110

**Servicing:** 028000-0370, 028000-2570, 028000-2571, 028000-2680, 028000-2681, 028000-2682, 028000-3700, 028000-3710, 028000-3950

**OD/housing** 19.95, **Thickness** 1.50, **Type** Lock washer, **Material** Steel

Pkg. 5

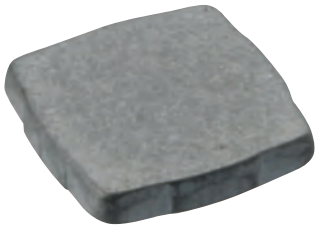
## 135217 Retaining Ring

**Servicing:** 128000-0461, 128000-0462, 228000-1000, 228000-1040, 228000-1041, 428000-0320

**OD/housing** 11.50, **Thickness** 1.60

*Used w/ retaining ring: HC-CARGO 233553.*

Pkg. 10



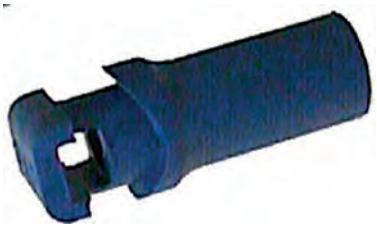
## 135475 Lock

**Replacing:** 028017-0060

**Servicing:** 028000-4800, 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541

**Thickness** 1.77, **Gasket** w/o

Pkg. 10



## 135746 Rubber Drain

**Replacing:** 028062-0530

**Servicing:** 028000-6000, 028000-6001, 028000-6300, 028000-9270, 128000-0101, 128000-0102, 128000-0140, 128000-0980, 128000-0981

**ID** 6.80, **OD** 8.95, **Length** 28.95

Pkg. 5

## 136084 Plastic Fitting

**Replacing:** 028062-0091

**Servicing:** 028000-4540, 028000-6930, 028000-7320, 028000-7321, 028000-7390, 028000-7391, 028000-7392, 028000-9120, 028000-9121

*Plastic.*

Pkg. 10

## 136087 Snap Ring

**Replacing:** 949072-1580, 949072-1360, 949072-1320

**Servicing:** 028000-5334, 028000-5335, 028000-6381, 028000-6382, 028000-6383, 028000-6384, 028000-6391, 028000-6392, 028000-6393

**OD/housing** 9.50, **Thickness** 1.60

*Used w/ retaining ring: HC-CARGO 136089.*

## 136088 Stop Collar Kit

**Replacing:** 028099-7880, 028021-5010

**Servicing:** 128000-2520, 128000-2611, 128000-2621, 128000-2631, 128000-2800, 128000-2820, 128000-2980, 128000-3250, 128000-3251

**ID** 11.00, **OD** 16.90, **Height** 5.10

Pkg. 5

## 136089 Stop Collar

**Replacing:** 028021-0331

**Servicing:** 028000-8460, 028000-9181, 028000-9182, 028000-9202, 028000-9203, 028000-9210, 028000-9220, 028000-9221, 028000-9230

**ID** 11.00, **OD** 15.90, **Height** 4.50

*Used w/ retaining ring: HC-CARGO 136087.*

Pkg. 5

## 136175 Stop Collar

**Replacing:** 028021-0310, 028021-0063

**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973

**ID** 12.50, **OD** 16.65, **Height** 6.00

*Used w/ retaining ring: HC-CARGO 138026.*

Pkg. 5

## 136299 Connection

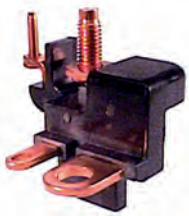
**Servicing:** 028000-9860, 128000-7140, 228000-2120, 228000-2121, 228000-2122, 228000-2123, 228000-2124, 228000-2680, 228000-2682

**ID** 8.40, **Lead length** 80.00

Pkg. 10

## 136317 Terminal Boot

**ID** 20.00, **OD** 26.80



## 137588# Terminal Block

**Replacing:** 053480-7100

**Servicing:** 128000-1560, 128000-3500, 128000-4960, 128000-5270, 128000-5280, 128000-5670, 128000-6320, 128000-7500, 128000-8030

*Cover: HC-CARGO 137589.*



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Pkg. 5

## 137590 Grommet

**Servicing:** 028000-5581, 028000-6290, 028000-6291, 028000-6292, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892

*Length: 97.50 mm.*

Pkg. 5

## 137592 Terminal Boot

**Replacing:** 028062-5050, 028062-0640

**Servicing:** 128000-0280, 128000-0281, 128000-0810, 128000-0910, 128000-2140, 128000-2600, 128000-4750, 128000-5080, 128000-6930

**ID** 9.10, **OD** 26.80, **Length** 46.30

Pkg. 5

## 137594 Grommet

**Servicing:** 028000-7000, 028000-7001, 028000-7370, 028000-7372, 028000-7373, 028000-8760, 028000-8761, 028000-8762, 128000-0040

*Length: 84.00 mm.*

Pkg. 5

## 137865 Retainer

**Replacing:** 028327-0140

**Servicing:** 028000-6280, 128000-1151, 128000-2070, 128000-3111, 128000-3410, 128000-3470, 128000-3471, 128000-3472, 128000-3480

**ID/housing** 12.30, **OD/housing** 16.40, **Thickness** 1.55, **Material** Steel

Pkg. 10

## 137976 Rubber Drain

**Replacing:** 281997-4070, 028065-0100, 028065-0010

**Servicing:** 028000-5581, 028000-5900, 028000-6870, 028000-6880, 028000-6890, 028000-6891, 028000-6892, 028000-6910, 028000-7560

**OD** 12.60, **Length** 28.15

Pkg. 5

## 138026 Retaining Ring

**Replacing:** 949072-0400

**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973

**OD/housing** 11.00, **Thickness** 1.60, **Material** Steel

*Used w/ retaining ring: HC-CARGO 138027.*

Pkg. 5

## 138027 Stop Collar

**ID** 11.20, **OD** 20.00, **Height** 5.50

*Used w/ retaining ring: HC-CARGO 138026.*

Pkg. 10

## 138682 Nut

**Servicing:** 028000-4340, 028000-4341, 028000-4343, 028000-4450, 028000-4990, 028000-5060, 028000-5190, 028000-5390, 028000-5780

**Thread** M6, **OD** 10.00, **Lock nut** No

## 139049# Gear Plate

**Replacing:** 028452-5010

**Servicing:** 128000-5210, 128000-5211, 128000-5680, 128000-5681, 128000-5682, 128000-6212, 128000-6340, 128000-6341, 128000-6420

**ID** 18.00, **OD** 63.40, **Thickness** 7.45

Pkg. 5

## 139827 Rubber Drain

**OD** 12.00, **Length** 28.00

Pkg. 5

## 231213 Gasket

**Replacing:** 028901-0290, 028901-0080

**Servicing:** 028000-0197, 028000-0370, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973

**ID** 19.50, **OD** 27.75, **Thickness** 1.45, **Material** Rubber

*For HC-CARGO 136713.*

Pkg. 10

## 231625 Screw

**Replacing:** 949006-5670, 028903-0010

**Servicing:** 028000-5730, 028000-7700, 028000-8980, 028000-9270, 028000-9320, 028000-9321, 028000-9380, 028000-9510, 028000-9800

**Thread** M4, **Total length** 14.00, **Thread length** 7.80, **Slot type** Phillips, Pozidriv, **Countersink** Yes

*w/ o-ring.*



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Pkg. 10

## 231731 Drain Tube

**Replacing:** 028062-7081, 028062-6010, 028062-0272

**Servicing:** 028000-6721, 028000-7210, 028000-7290, 028000-7440, 028000-7460, 028000-7461, 028000-7462, 028000-7470, 028000-7471

**OD** 8.05, **Length** 8.45

Pkg. 5

## 232214 Spring

**Replacing:** 028025-0230, 028025-0050

**Servicing:** 028000-0197, 028000-1010, 028000-1011, 028000-1850, 028000-1970, 028000-1971, 028000-1972, 028000-1973, 028000-1975

**OD** 22.30, **Length** 19.60

Pkg. 5

## 232594 Rubber Drain

**Replacing:** 028065-0300, 028065-0290, 028065-0250, 028062-5790, 028062-0500

**Servicing:** 028000-5300, 028000-5301, 028000-5510, 028000-5511, 028000-5530, 028000-5531, 028000-5532, 028000-5541, 028000-5542

**OD** 9.40, **Length** 28.95

Pkg. 5

## 232595 Grommet

**Servicing:** 228000-7550, 228000-7551

**Dim. A** 13.40, **Dim. B** 11.20, **Dim. C** 54.55

Pkg. 5

## 232596 Grommet

**Servicing:** 128000-7140, 128000-9730, 128000-9740, 128000-9860, 128000-9880, 228000-0420, 228000-0900, 228000-0901, 228000-0902

*Length: 46.50 mm.*

Pkg. 10

## 233080 Retainer

Pkg. 5

## 233083 Boot

**Replacing:** 028062-5640, 028062-0660

**Servicing:** 028000-4650, 028000-7740, 128000-0170, 128000-0171, 128000-0300, 128000-2190, 128000-5110, 128000-6640, 128000-7080

Pkg. 5

## 233553 Stop Collar

**Replacing:** 028021-0230

**Servicing:** 028000-6280, 128000-0461, 128000-1151, 128000-2070, 128000-3111, 128000-3410, 128000-3471, 128000-3472, 128000-3481

**ID** 13.56, **OD** 17.45, **Height** 4.45

*Used w/ retaining ring: HC-CARGO 135217.*

## 234973 Stop Collar Kit

**ID** 12.90, **OD** 16.20, **Height** 1.90

Pkg. 10

## 235256 Insulator

**Replacing:** 021605-0490

**Servicing:** 021000-6271, 021000-7090, 021000-7160, 021000-7630, 021000-7640, 021000-8500, 021000-8731, 021000-8770, 021000-8780

**ID** 5.14, **OD/collar** 8.15, **OD** 13.76, **Length** 12.46, **Height/collar** 5.44

Pkg. 10

## 237555 Lock Ring

**Replacing:** 028325-0110

**Servicing:** 228000-9901, 228000-9902, 428000-0150, 428000-0151, 428000-0152, 428000-0700, 428000-0701, 428000-1940, 428000-1941

**OD/housing** 12.72, **Thickness** 0.99

Pkg. 10

## 332662 Washer

**Servicing:** 228000-0940, 228000-0941, 228000-2900, 228000-5960, 428000-6360, 428000-6760

**ID** 5.20, **OD** 8.50, **Height** 2.65



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## Armatures

### 12 V

**130147** Armature

**Replacing:** 23276

**Servicing:** 6185, 6185A, 6185B, 6185C, 6202, 6202A, 6202B, 6219, 6219A, 6219B, 6219C, 6241A

12 **V**, 0.8 **kW**, **Shaft length** 232.00, **Core thickness** 57.00, **No./splines** 9, **Rotation** ACR

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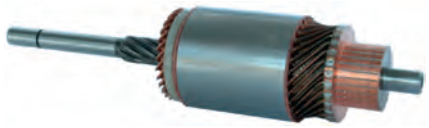

**130176** Armature

**Replacing:** 618206, 19256

**Servicing:** 533002, 533003, 533004, 618071E, 618071F, 618073E, 618073F, 618358A, 618358B, 6189, 6189D, 6189E, 6189EF, 6189F, 6190

12 **V**, 1 **kW**, **Shaft length** 252.00, **Core thickness** 57.00, **No./splines** 9, **Rotation** CR

---

**130949**# Armature

**Replacing:** 618687

**Servicing:** 534002, 534004, 534005, 6246, 6246A, 6246C

12 **V**, 0.8/1 **kW**, **Shaft length** 210.00, **Core thickness** 60.00, **No./splines** 9, **Rotation** CR

---

**131094**# Armature

**Replacing:** 612117

**Servicing:** 532002, 532003, 532004, 532009, 532010, 532018, 6231C

12 **V**, 0.8/0.95/1 **kW**, **Shaft length** 244.50, **Core thickness** 56.50, **No./splines** 11, **Rotation** CR

---

**132171** Armature

**Replacing:** 618242, 605999

**Servicing:** 6127, 6180, 6232, 6232A, 6233, 6233A

12 **V**, 2 **kW**, **Shaft length** 318.00, **Core thickness** 73.45, **No./splines** 6, **Rotation** CR

---

**133221** Armature

**Replacing:** 618686

**Servicing:** 532012, 532021, 532023, 6202C, 6202D, 6202F

12 **V**, 0.75 **kW**, **Shaft length** 219.50, **Core thickness** 56.60, **No./splines** 9, **Rotation** ACR

---

**133228** Armature

**Replacing:** 583249

**Servicing:** 534023, 534029, 534029A, 534031, 534031A, 534032, 534032A, 534042, 534042A, 534042B, 534043, 534043A, 534044, 534047

12 **V**, 0.8/1/1.2 **kW**, **Shaft length** 189.00, **Core thickness** 60.20, **No./splines** 9, **Rotation** CR

---

**133899** Armature

**Replacing:** 583342

**Servicing:** 534053, 534054, 534054D

12 **V**, 0.8 **kW**, **Shaft length** 173.15, **Core thickness** 60.20, **No./splines** 9, **Rotation** CR

---

**133937**# Armature

**Replacing:** 583154

**Servicing:** 538005, 538005B

12 **V**, 2.5 **kW**, **Shaft length** 305.20, **Core thickness** 73.15, **No./splines** 11, **Rotation** ACR

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**235769** Armature

**Replacing:** 606387

**Servicing:** 6187, 6231, 6231A, 6231B, 6231D

12 **V**, **Shaft length** 243.00, **Core thickness** 56.70, **No./splines** 9

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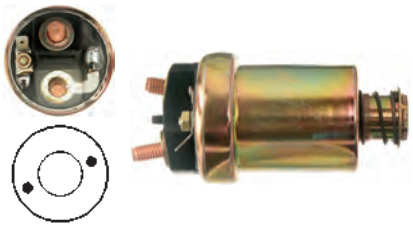
## Solenoids

### 12 V



**131007** Solenoid

**Replacing:** 682244, 608407, 607918, 581381

**Servicing:** 532012, 6208, 6217, 6217A, 6217B, 6217C, 6217D, 6217E, 6217F, 6217G, 6217H

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 45.90, **OD/cover** 50.40, **Total length** 116.75, **Height/B+** 13.15, **Width/kl. 50** 10.25, **Coil bolt** M8, **Coil bolt 2** 9.30, **No./terminals** 3

*Cap: HC-CARGO 131320.*

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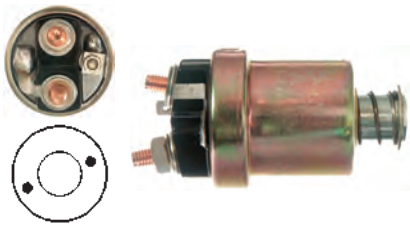
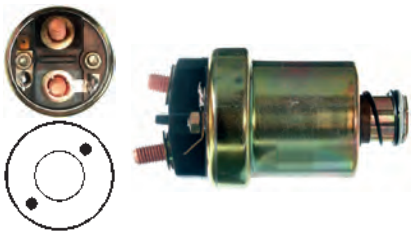


## 131009 Solenoid

**Replacing:** 8249, 701414, 701412, 680566, 680560, 680559, 618695, 606893, 606753, 1414

**Servicing:** 532021, 532023, 533000, 6035E, 6081EF, 6136, 6172, 6185, 6189, 6189A, 6189B, 6189C, 6189D, 6202, 6202A, 6202B, 6202C

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 46.00, **OD/cover** 47.80, **Total length** 107.80, **Height/B+** 16.00, **Width/kl. 50** 16.35, **Coil bolt** M8, **Coil bolt 2** 8.55, **No./terminals** 3
*Cap: HC-CARGO 131321.*

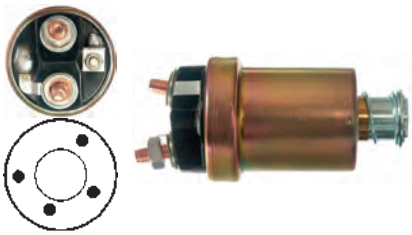


## 131010 Solenoid

**Replacing:** 708289, 701426, 701424, 682115, 682102, 681411, 618511, 618480, 618136, 618010, 606913, 606903

**Servicing:** 533003, 533004, 6045B, 6139BC, 6155HJKL, 6185A, 6185ABC, 6185B, 6185C, 6219A, 6219ABC, 6219B, 6219C, 6227A, 6227AB

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** 6.30, **OD** 45.80, **OD/cover** 47.55, **Total length** 106.60, **Height/B+** 12.35, **Width/kl. 30h** 13.00, **Width/kl. 50** 8.95, **No./terminals** 4
*Cap: HC-CARGO 133769.*

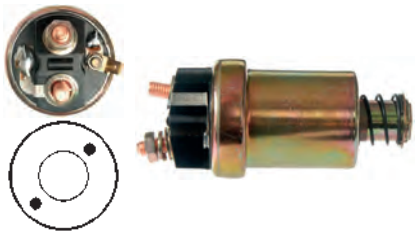


## 131013 Solenoid

**Replacing:** 583036

**Servicing:** 532003, 532004, 532008, 532009, 532018, 533002, 6162C, 6162E, 6190, 6190A, 6190AB, 6190B

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 46.00, **OD/cover** 48.35, **Total length** 119.25, **Height/B+** 18.60, **Width/kl. 50** 16.00, **Coil bolt** M8, **Coil bolt 2** 10.85, **No./terminals** 3
*Cap: HC-CARGO 131322.*

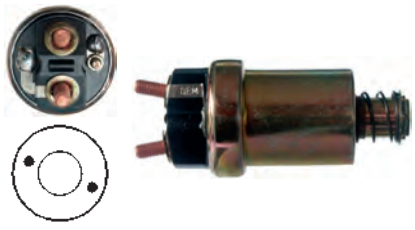


## 131208 Solenoid

**Replacing:** 777265, 760111, 680955, 680952, 618220, 606919, 606916, 60111, 583159

**Servicing:** 6083B, 6083C, 6083D, 6099CD, 6127, 6127C, 6180, 6180B, 6232, 6232A, 6233, 6233A

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 45.80, **OD/cover** 47.75, **Total length** 127.65, **Height/B+** 16.70, **Width/kl. 50** 9.25, **Coil bolt** M8, **Coil bolt 2** 9.80, **No./terminals** 3
*Cap: HC-CARGO 133768.*

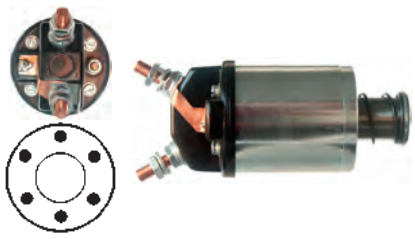


## 131797 Solenoid

**Replacing:** 761475, 681438, 618702, 606927, 606896, 60116

**Servicing:** 6056HJ, 6109, 6109FGHKL, 6192, 6192B, 6192BCJ, 6192C, 6192J, 6192K, 6192L

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 45.80, **OD/cover** 47.65, **Total length** 128.00, **Height/B+** 14.50, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 15.10, **No./terminals** 3
*Cap: HC-CARGO 133768.*

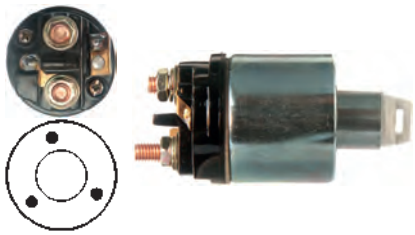


## 132241# Solenoid

**Replacing:** 680480, 608299

**Servicing:** 6207, 6207A, 6207B, 6207C

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 57.00, **OD/cover** 62.00, **Total length** 141.70, **Height/B+** 23.75, **Width/kl. 50** 13.85, **Coil bolt** M8, **Coil bolt 2** 24.15, **No./terminals** 3

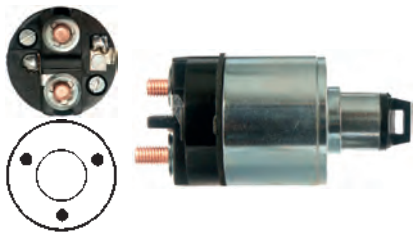


## 133120 Solenoid

**Replacing:** 683487, 583618, 583331, 583261

**Servicing:** 532027, 534032, 534032A, 534036, 534047, 534051A, 534056

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.15, **OD** 50.90, **OD/cover** 51.55, **Total length** 96.85, **Height/B+** 16.15, **Width/kl. 50** 12.60, **Coil bolt** M8, **Coil bolt 2** 12.15, **No./terminals** 3
*Cap: HC-CARGO 132274.*

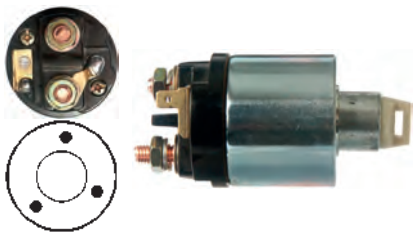


## 133121 Solenoid

**Replacing:** 683427, 583486, 583330

**Servicing:** 534023, 534039, 534039A, 534044, 534046, 534050, 534050A, 534050B, 8293, 8294

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.25, **OD** 52.00, **OD/cover** 52.00, **Total length** 94.80, **Height/B+** 13.00, **Width/kl. 50** 11.35, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3
*Cap: HC-CARGO 133771.*



## 133122 Solenoid

**Replacing:** 683457, 683456, 683262, 680958, 583333

**Servicing:** 534029, 534029A, 534031, 534031A, 534042, 534042A, 534042B, 534043, 534043A, 534057

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.25, **OD** 50.75, **OD/cover** 51.65, **Total length** 97.00, **Height/B+** 15.85, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 12.10, **No./terminals** 3
*Cap: HC-CARGO 132035.*



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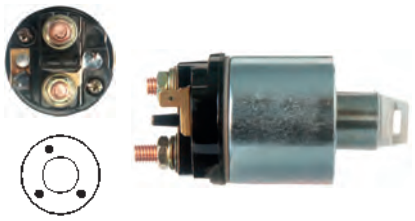
#Available while stock last, * Program development.

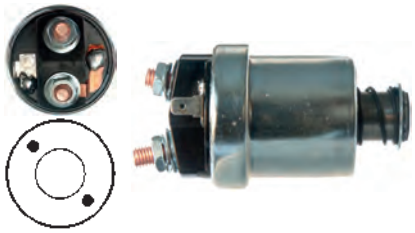


**133123** Solenoid

**Replacing:** 683523, 683522, 583335

**Servicing:** 534048, 534048A, 534053, 534054, 534055

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.30, **OD** 50.80, **OD/cover** 51.55, **Total length** 97.00, **Height/B+** 16.40, **Width/kl. 50** 11.85, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3
*Cap: HC-CARGO 131172.*

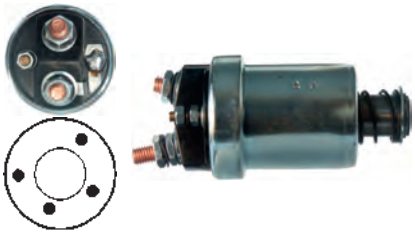


**133177** Solenoid

**Replacing:** 680565, 680558

**Servicing:** 6139, 6155, 6185, 6219, 6227

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 46.10, **OD/cover** 49.45, **Total length** 102.80, **Height/B+** 14.25, **Width/kl. 50** 11.20, **Coil bolt** M8, **Coil bolt 2** 8.35, **No./terminals** 3
*Cap: HC-CARGO 133774.*



**133178** Solenoid

**Replacing:** 583079

**Servicing:** 532002, 532010, 532020, 6183, 6187, 6203, 6216, 6220, 6231, 6231A, 6231B, 6231C, 6231D, 6247

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 46.30, **OD/cover** 51.15, **Total length** 122.00, **Height/B+** 19.60, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3
*Cap: HC-CARGO 131323.*

## Solenoid Parts

### Solenoid Caps

**131172** Solenoid Cap

**Servicing:** 534004, 534005, 534007, 534009, 534029, 534031, 534042, 534043, 534045, 534048, 534049, 534053, 534054, 534055, 534057

**OD** 52.00, **No./terminals** 3
*HC-CARGO 131211, 133123.*

**131322** Solenoid Cap

**Servicing:** 532003, 532004, 532009, 532018, 533000, 533002, 583036, 6190

**OD** 53.25, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 131013.*

**131323** Solenoid Cap

**Servicing:** 532002, 532003, 532004, 532008, 532010, 532012, 532014, 532016, 532020, 532021, 532023, 583079, 583080, 6128, 6136

**OD** 52.35, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 133178.*

**132035** Solenoid Cap

**Servicing:** 534042, 534943, 583333, 683457

**OD** 52.35, **No./terminals** 3
*HC-CARGO 133122.*

**132274** Solenoid Cap

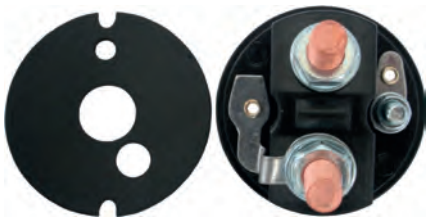
**Servicing:** 532027, 534023, 534027, 534028, 534032, 534032A, 534036, 534039, 534044, 534046, 534047, 534050, 534056, 583331, 683262

**OD** 52.00, **No./terminals** 3
*HC-CARGO 133120.*

**133645** Solenoid Cap

**Servicing:** 532011, 533001, 534002, 536001, 538005, 538006, 583098, 583302, 6236, 6239, 681726

**OD** 52.00, **No./terminals** 3
*HC-CARGO 132622.*



**133768** Solenoid Cap

**Servicing:** 060111, 061475, 606916, 606919, 606927, 608819, 6109, 610913, 6127, 6180, 6192, 6232, 6233, 681438

**OD** 52.70, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 131797.*

### Moving Contacts

Pkg. 5

**132036** Moving Contact

**Servicing:** 583330, 583331, 681872, 683262, 683287, 683480

**Length** 37.00, **Shaft measurement** 42.45, **Thickness** 2.45, **Width** 14.00



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# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

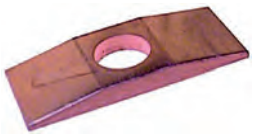
## 132147 Moving Contact

**Servicing:** 583161, 683099, 683487

**Length** 33.30, **Shaft measurement** 43.00, **Thickness** 3.00, **Width** 14.00
*Silver plated.*

**Alternative no.:** B132147

Pkg. 10



## 134150 Contact Plate

**Length** 32.50, **Width** 14.00

Pkg. 100

## B132147 Moving Contact

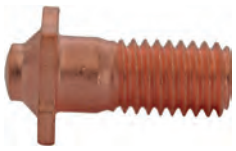
**Replacing:** 132147

**Length** 33.30, **Shaft measurement** 43.00, **Thickness** 2.95, **Width** 14.00

**Alternative no.:** 132147

### Fixed Contacts

Pkg. 10



## 134147 Fixed Contact

**Total length** 23.30,
**Length/rear collar** 17.55,
**Thread length** 12.30, **Thread size** M8

### Drives

## 130422 Drive

**Replacing:** 681397, 22225

**Servicing:** 6177, 618075, 618089, 6207, 6207A, 6207B, 6207C

**ID** 14.00, **OD** 36.25, **OD/housing** 60.20, **Total length** 76.60, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 130424 Drive

**Replacing:** 681378, 60846

**Servicing:** 532021, 532023, 6136, 6185, 6185A, 6185B, 6185C, 6219, 6219A, 6219B, 6219C

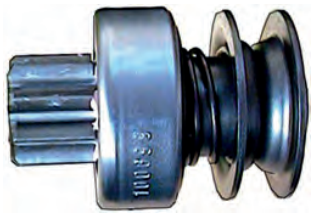
**ID** 12.00, **OD** 25.20, **OD/housing** 46.20, **Total length** 59.50, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 130425 Drive

**Replacing:** 60991

**Servicing:** 6202, 6202A, 6202B, 6202C, 6202D, 6202F

**ID** 12.00, **OD** 29.00, **OD/housing** 46.00, **Total length** 59.85, **Splines A** 9, **No./teeth** 9, **Rotation** ACR



## 130432 Drive

**Replacing:** 682150, 680663, 612355, 605055, 605028

**Servicing:** 532020, 533000, 533002, 533003, 533004, 534002, 534004, 534005, 534007, 6189, 6189D, 6189E, 6189F, 6190, 6190A, 6190B

**ID** 12.00, **OD** 25.25, **OD/housing** 46.20, **Total length** 68.05, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 130434 Drive

**Replacing:** 79692, 681380, 611736, 609477, 606416, 19567, 18678

**Servicing:** 532000A, 532000B, 532001A, 6128, 6172, 6183B, 6183C, 6183F, 6183G, 6187, 6187C, 6187E, 6187F, 6224B, 6224C, 6224D, 6227

**ID** 12.00, **OD** 25.30, **OD/housing** 46.45, **Total length** 61.70, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 131021 Drive

**Replacing:** 618744, 611942

**Servicing:** 532002, 532003, 532004, 532008, 532009, 532010, 532018, 6231C, 7562A, 7562B, 7562C, 7562D, 7562E, 7562F

**ID** 13.00, **OD** 25.20, **OD/housing** 46.20, **Total length** 61.50, **Splines A** 11, **No./teeth** 9, **Rotation** CR

## 131083# Drive

**Replacing:** 680589

**Servicing:** 6236, 6236B, 6236C, 6239

**ID** 12.10, **OD** 25.55, **OD/housing** 46.20, **Total length** 80.65, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 131188 Drive

**Replacing:** 611734, 606415, 17946

**Servicing:** 532011, 533001, 6155G, 6161H

**ID** 12.00, **OD** 25.30, **OD/housing** 47.05, **Total length** 67.80, **Splines A** 9, **No./teeth** 9, **Rotation** ACR



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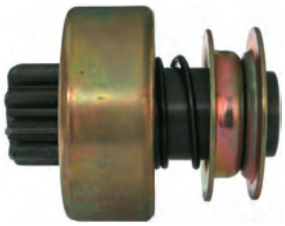
#Available while stock last, * Program development.

## 131596 Drive

**Replacing:** 681898

**Servicing:** 538006

**ID** 14.20, **OD** 29.15, **OD/housing** 59.30, **Total length** 79.90, **Splines A** 11, **No./teeth** 9, **Rotation** CR



## 132078 Drive

**Replacing:** 681398, 20795, 16866

**Servicing:** 6056HJ, 6109, 6109FGHKL, 6160DEFG, 6192, 6192B, 6192BCJ, 6192C, 6192J, 6192K, 6192L, 6193A, 6193AB, 6193B

**ID** 14.00, **OD** 29.30, **OD/housing** 60.50, **Total length** 73.38, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 132170 Drive

**Replacing:** 683334

**Servicing:** 6127, 6127C, 6180, 6180A, 6232, 6232A, 6233, 6233A

**ID** 14.00, **OD** 39.75, **OD/housing** 60.00, **Total length** 84.75, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 132181 Drive

**Replacing:** 583336, 583289, 583277

**Servicing:** 534023, 534029, 534031, 534032, 534039, 534042, 534043, 534044, 534047, 534053, 534054, 534055, 534057, 537039, 8293

**ID** 12.00, **OD** 25.25, **OD/housing** 46.25, **Total length** 53.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

*w/ lever.*

## 132182 Drive

**Replacing:** 583307

**Servicing:** 534046, 534046A, 534048, 534050, 534050A

**ID** 12.00, **OD** 25.25, **OD/housing** 47.00, **Total length** 59.85, **Splines A** 9, **No./teeth** 9, **Rotation** CR

*w/ lever.*

## 132197 Drive

**Replacing:** 683117

**Servicing:** 534027, 534027A, 534028, 534028A, 534036, 534036A

**ID** 12.00, **OD** 29.45, **OD/housing** 48.50, **Total length** 66.00, **Splines A** 9, **No./teeth** 11, **Rotation** CR

## 135389 Drive

**Replacing:** 584185

**ID** 12.00, **OD** 29.00, **OD/housing** 54.00, **Total length** 54.50, **Splines A** 9, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 335230

## 235088 Drive

**Replacing:** 079240, 079238, 073811, 072083

**Servicing:** 6083, 6083B, 6083C, 6083D, 6099, 6099CD

**ID** 14.00, **OD** 40.00, **OD/housing** 57.80, **Total length** 75.15, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## Levers

## 132632# Lever

**Replacing:** 583357

**Servicing:** 532000A, 532000AB, 532000B, 532001A, 532012, 532020, 532021, 532023, 533002, 533003, 533004, 6155, 6155HJKL, 6172, 6176

**Dist.** 33.45, **ID** 5.15, **Length** 92.60

## 132633# Lever

**Replacing:** 611509, 583363

**Servicing:** 532002, 532003, 532004, 532008, 532009, 532010, 532014, 532018, 6223A, 6231C

**Dist.** 37.45, **ID** 5.15, **Length** 91.30

## Brush Gears

Pkg. 10

## 132574 Brush Gear

**Servicing:** 532012, 532016, 532021, 532023, 532027, 534002, 534004, 534005, 534007, 534009, 534023, 534029, 534031, 534032, 534039

**OD** 51.30

*Brush set: HC-CARGO USX91922. Brush spring: HC-CARGO 132994. Insulator: HC-CARGO 132994.*



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#Available while stock last, * Program development.

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## Brush Gear Parts

### Brush Springs

Pkg. 10

**133889** Brush Spring

**Servicing:** 534053C

**OD** 12.60, **Length** 42.45

### Various

Pkg. 5

**132994** Insulator

**Servicing:** 532012, 532021, 532023, 534002, 534009, 534029, 534031, 534032, 534039, 534042, 534043, 534047, 534048, 534054, 534055

*Brush box: HC-CARGO 132574.*

## Brush Sets

**140849** Brush Set

**Replacing:** 618491

**Servicing:** 532002, 532003, 532004, 532009, 532010, 532011, 532018, 532020, 533002, 6081EF, 6139BC, 6155HJKL, 6172, 6176EG, 6185

12 **V**, **Length** 15.00, **Lead length** 39.50, **Lead length 2** 62.00, **Height** 15.00, **Thickness** 8.00

*Brush set: HC-CARGO USX73-852.*

**Alternative no.:** US60

Pkg. 100

**US60** Brush

**Replacing:** 140849

12 **V**, **Length** 14.88, **Lead length** 54.50, **Height** 14.95, **Thickness** 7.97

**Alternative no.:** 140849

**USX50-512** Brush Set

**Replacing:** 680549, 60556, 079325

6/12 **V**, **Length** 13.00, **Lead length** 63.50, **Height** 19.00, **Thickness** 9.00

**USX50-514** Brush Set

**Replacing:** 618509, 60567

**Servicing:** 6056HJ, 6083B, 6083BCD, 6083C, 6083D, 6099CD, 6109FGHKL, 6127, 6160DEFG, 6169AB, 6177AC, 6192B, 6192BCJ, 6192C, 6192J

**Length** 13.00, **Lead length** 46.00, **Height** 19.00, **Thickness** 8.80

**USX64-652** Brush Set

**Replacing:** 75217, 74042, 078042, 075244, 074043

6 **V**, **Length** 15.00, **Lead length** 46.00, **Height** 15.00, **Thickness** 8.00

**USX682** Brush Set

**Replacing:** 618570

12 **V**, **Length** 15.00, **Lead length** 46.00, **Height** 15.00, **Thickness** 8.00

**USX73-852** Brush Set

**Replacing:** 75238, 75226, 611795, 609778, 609592, 23283, 20856, 19252

**Servicing:** 532000A, 532000AB, 532000B, 532001A, 6045B, 6081EF, 6092B, 6139BC, 6155HJKL, 6176EG, 6178A, 6178B, 6178C, 6178D, 6183B

12 **V**, **Length** 15.00, **Lead length** 50.00, **Height** 15.00, **Thickness** 8.00

*Brush set w/ springs: HC-CARGO 140849.*

**USX76-77-78** Brush Set

**Replacing:** 618539, 608818, 607084, 22136

12 **V**, **Length** 15.00, **Lead length** 50.59, **Height** 15.00, **Thickness** 8.00

**USX91-922** Brush Set

**Replacing:** 618692, 618691, 583041

**Servicing:** 6202C, 6202CDE, 6202F, 6217F, 6217FG, 6217G, 6217H, 6246A, 6246AC, 6246C

12 **V**, **Length** 15.00, **Lead length** 61.00/45.00, **Height** 6.00/11.70, **Thickness** 13.00



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#Available while stock last, * Program development.

## USX93-942/1 Brush Set

**Replacing:** 583241

12 **V**, **Length** 15.00/18.50, **Lead length** 50.00, **Lead length 2** 126.50, **Height** 5.50/8.20, **Thickness** 13.10

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## Brushes

Pkg. 100

## US50# Brush

**Replacing:** USX50-514, USX50-512

6/12 **V**, **Length** 13.08, **Lead length** 48.50, **Height** 18.93, **Thickness** 8.68

**Alternative no.:** USX50-512

---

Pkg. 100

## US51# Brush

**Replacing:** USX50-514, USX50-512

6/12 **V**, **Length** 13.05, **Lead length** 68.47, **Height** 18.93, **Thickness** 8.69

**Alternative no.:** USX50-512

---

Pkg. 100

## US73/0 Brush

**Replacing:** USX73-852

12 **V**, **Length** 14.95, **Lead length** 41.50, **Height** 14.90, **Thickness** 7.90

**Alternative no.:** USX73-852

---

Pkg. 100

## US91/0 Brush

**Replacing:** USX91-922

12 **V**, **Length** 15.12, **Lead length** 42.70, **Height** 13.10, **Thickness** 10.85

**Alternative no.:** USX91-922

---

Pkg. 100

## US92/0 Brush

**Replacing:** USX91-922

12 **V**, **Length** 15.05, **Lead length** 67.00, **Height** 13.00, **Thickness** 10.78

**Alternative no.:** USX91-922

---

Pkg. 100

## US94/0# Brush

**Replacing:** USX93-942/1

12 **V**, **Length** 17.10, **Lead length** 117.00, **Lead length 2** 59.50, **Height** 12.85, **Thickness** 8.00

**Alternative no.:** USX93-942/1

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## Bushings

Pkg. 10

## 140038 Bushing

**Replacing:** 98888

**Servicing:** 6128, 6136, 6172, 6227

**ID** 10.07, **OD** 13.05, **Length** 12.00

**Alternative no.:** B140038

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Pkg. 10

## 140040 Bushing

**Replacing:** 97658, 68412, 601476

**Servicing:** M78, M79, 532012, 532014, 532016, 532021, 532023, 532027, 533000, 534002, 534004, 534005, 534007, 534009, 534023

**ID** 12.00, **OD** 15.00, **Length** 12.00

**Alternative no.:** B140040

---

Pkg. 10

## 140041 Bushing

**Replacing:** 600664

**Servicing:** 532016, 6217D, 6217E, 6217F, 6217G

**ID** 12.05, **OD/collar** 18.00, **OD** 15.07, **Length** 13.50, **Height/collar** 1.50

---

Pkg. 10

## 140042 Bushing

**Replacing:** 600628, 600609

**Servicing:** 532003, 532004, 532008, 532014, 536001, 6220, 6247

**ID** 13.04, **OD** 15.05, **Length** 14.50

**Alternative no.:** B140042

---

Pkg. 10

## 140043 Bushing

**Replacing:** 84909, 68903, 68902, 68430

**Servicing:** 532002, 532003, 532004, 532008, 532009, 532010, 532011, 532012, 532018, 532020, 533000, 533001, 533002, 533003, 533004

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** B140043

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All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

## 140050 Bushing

**Replacing:** 672541
**ID** 10.08, **OD** 14.02, **Length** 13.50
**Alternative no.:** B140050

Pkg. 10

## 140064 Bushing

**Replacing:** 82775
**ID** 12.07, **OD** 15.05, **Length** 20.00
**Alternative no.:** B140064

Pkg. 10

## 140068 Bushing

**Replacing:** 87880
**ID** 17.05, **OD** 21.05, **Length** 20.00
**Alternative no.:** B140068

Pkg. 10

## 140157 Bushing

**Replacing:** 602039
**Servicing:** 532002, 532009, 532010, 532018, 6231C
**ID** 13.04, **OD** 15.04, **Length** 12.00

Pkg. 10

## 140257 Bushing

**Replacing:** 94909
**Servicing:** 6236, 6239
**ID** 15.95, **OD** 19.15, **Length** 14.00
**Alternative no.:** B140257

Pkg. 10

## 140264 Bushing

**Replacing:** 28936
**Servicing:** 6109, 6127, 6180, 6192, 6232, 6233
**ID** 16.27, **OD** 19.15, **Length** 15.00
**Alternative no.:** B140264

## 140533 Bushing Kit

**Replacing:** 583348
**Servicing:** 532000A, 532000AB, 532000B, 532001A, 6045B, 6081EF, 6083B, 6083BCD, 6083C, 6083D, 6155HJKL, 6176EG, 6183B, 6183C
**ID** 12.07, **OD** 15.07, **Length** 12.01

## 140543 Bushing Kit

**Replacing:** 583372
**Servicing:** 6056HJ, 6092B, 6099CD, 6109, 6109FGHKL, 6160DEFG, 6169AB, 6177AC, 6180, 6192, 6192B, 6192BCJ, 6192C, 6192J, 6193A

Pkg. 10

## 140621 Bushing

**ID** 12.00, **OD** 13.20, **Length** 16.15

Pkg. 10

## 140622 Bushing

**ID** 11.75, **OD** 13.40, **Length** 11.00
**Alternative no.:** B140622

Pkg. 10

## 140623 Bushing

**ID** 13.40, **OD** 13.60, **Length** 22.20

Pkg. 10

## 140667 Bushing

**Replacing:** 68763
**ID** 14.05, **OD** 18.05, **Length** 15.00

Pkg. 100

## B140038 Bushing

**Replacing:** 98888
**ID** 10.07, **OD** 13.05, **Length** 12.00
**Alternative no.:** 140038



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#Available while stock last, * Program development.

Pkg. 100

**B140040** Bushing
**Replacing:** 97658, 68412, 601476
**ID** 11.95, **OD** 15.00, **Length** 12.00
**Alternative no.:** 140040

Pkg. 100

**B140042** Bushing
**Replacing:** 600628, 600609
**ID** 13.04, **OD** 15.05, **Length** 14.50
**Alternative no.:** 140042

Pkg. 100

**B140043** Bushing
**Replacing:** 84909, 68903, 68902, 68430
**ID** 12.10, **OD** 15.05, **Length** 15.00
**Alternative no.:** 140043

Pkg. 100

**B140050** Bushing
**Replacing:** 672541
**ID** 10.08, **OD** 14.04, **Length** 13.50
**Alternative no.:** 140050

Pkg. 100

**B140064** Bushing
**Replacing:** 82775
**ID** 12.06, **OD** 15.07, **Length** 19.90
**Alternative no.:** 140064

Pkg. 100

**B140068** Bushing
**Replacing:** 87880
**ID** 17.05, **OD** 21.05, **Length** 20.00
**Alternative no.:** 140068

Pkg. 100

**B140257** Bushing
**Replacing:** 94909
**ID** 15.95, **OD** 19.15, **Length** 14.00
**Alternative no.:** 140257

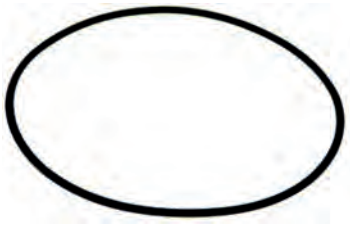
Pkg. 100

**B140264** Bushing
**Replacing:** 28936
**ID** 16.26, **OD** 19.15, **Length** 14.90
**Alternative no.:** 140264

## Sundry Parts

### O-rings

Pkg. 10



**134491** O-ring
**ID** 40.00, **Thickness** 1.00

### Various

Pkg. 5

**132924** Cover
**Servicing:** 532002, 532003, 532004, 532009, 532010, 532011, 532014, 532017, 532018, 532020, 532021, 532023, 533001, 533003, 533004
**OD** 23.40, **Height** 12.45

Pkg. 10

**134140** Connection
*Old type.*

Pkg. 10

**134158** Lock Ring
**Servicing:** 532002, 532009, 532010, 532011, 532018, 532021, 532023, 534002, 538006, 6172, 6185, 6202F, 6219, 6227, 6231C, 6236



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

**136328**# Spring

**Servicing:** 532002, 532009, 532010, 532016, 532018, 532020, 533002, 533003, 533004, 534055, 6172, 6183B, 6183C, 6183F, 6183G, 6185

**OD** 25.00, **Length** 27.00

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Pkg. 10

**138766**# Brake Washer

**ID** 12.20, **OD** 19.00, **Thickness** 0.80

---

Pkg. 10

**234665** Gasket

**Servicing:** 532021, 532023, 6172, 6185, 6187, 6219, 6227

**Length** 62.60, **Thickness** 0.60, **Width** 44.55

---



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#Available while stock last, * Program development.

## Armatures

### 12 V

**130945** Armature

**Replacing:** 8083006

**Servicing:** B76-0.5/12

12 **V**, 0.5 **kW**, **Shaft length** 230.00, **Core thickness** 51.75, **No./splines** 2, **Rotation** ACR

## Solenoids

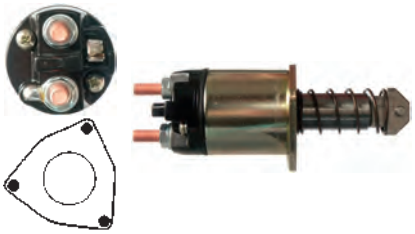
### 12 V

**130848** Solenoid

**Replacing:** 8088006

**Servicing:** B76-0.5/12

12 **V**



**131437** Solenoid

**Replacing:** 9540000, 9244000, 9240000

**Servicing:** 8020010000, 8020020000, 8020040000, 8020060000, 8060000, 8100001, 8120000, 8180000, 8190000, E100N-1.5/12, R100.02

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 50.40, **OD/cover** 50.40, **Total length** 127.50, **Height/B+** 21.45, **Width/kl. 50** 13.95, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3

*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

## Solenoid Parts

### Solenoid Caps

Pkg. 5

**132229** Solenoid Cap

**Servicing:** E100N-1.5/12, R100.02, R76.02, R76A, R80.04, R80K

**OD** 52.45, **No./terminals** 3

*HC-CARGO 131437, 132227, 132228, 133083, 133566, 139785, 139786, 230325.*

## Drives

**130740** Drive

**Replacing:** 8087006

**Servicing:** B76-0.5/12

**ID** 11.50, **OD** 25.30, **OD/housing** 41.30, **Total length** 65.00, **Splines A** 2, **No./teeth** 9, **Rotation** ACR

**132075** Drive

**Replacing:** 9087000

**Servicing:** E100N-1.5/12, R100.02

**ID** 14.00, **OD** 29.00, **OD/housing** 46.20, **Total length** 70.00, **Splines A** 6, **No./teeth** 9, **Rotation** CR

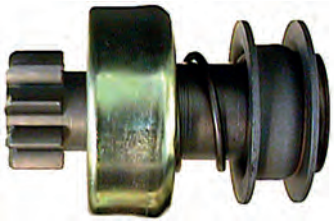
**133841** Drive

**Replacing:** 8097002

**Servicing:** R76.02, R76A

**ID** 11.50, **OD** 25.00, **OD/housing** 44.00, **Total length** 65.30, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333855



**136709**# Drive

**Replacing:** 8187000, 8020067000

**Servicing:** 8020040000, 8020060000, 8020070000, 8060000, 8180000, 8190000, R80.04, R80K, R80N, R80Z

**ID** 11.65, **OD** 25.20, **OD/housing** 45.00, **Total length** 68.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**333855** Drive

**Replacing:** 8097002

**Servicing:** R76.02, R76A

**ID** 11.50, **OD** 25.00, **OD/housing** 39.00, **Total length** 65.30, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 133841

## Levers

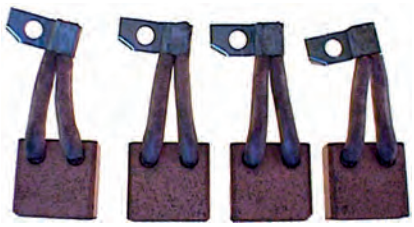
**132202** Lever

**Replacing:** 8087186

**Servicing:** B76-0.5/12

**Dist.** 41.35, **ID** 8.00, **Length** 124.70

## Brush Sets



**BSX964** Brush Set

**Replacing:** 8060014040

**Servicing:** R11K

12 **V**, **Length** 23.00, **Lead length** 43.00, **Height** 25.00, **Thickness** 10.00

**Alternative no.:** BS96



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#Available while stock last, * Program development.

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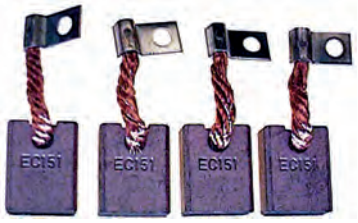
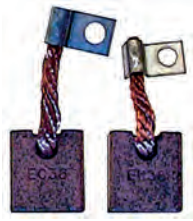


## JSX134 Brush Set

**Replacing:** 9084040
**Servicing:** E100, E100-1.5/12, E100N-1.5/12
12 **V**, **Length** 20.00, **Lead length** 33.50, **Height** 16.00, **Thickness** 7.00
**Alternative no.:** JS13



## JSX52 Brush Set

**Replacing:** 8084046
12 **V**, **Length** 17.00, **Lead length** 24.50, **Height** 16.00, **Thickness** 6.00
**Alternative no.:** JS5

## Bushings

Pkg. 10

## 140046 Bushing

**Replacing:** 9084020
**Servicing:** E100N-1.5/12, R100.02
**ID** 12.00, **OD** 16.00, **Length** 16.90
**Alternative no.:** B140046

Pkg. 10

## 140049 Bushing

**Replacing:** 9085020
**Servicing:** E100N-1.5/12, R100.02
**ID** 12.11, **OD** 16.01, **Length** 24.00
**Alternative no.:** B140049

Pkg. 10

## 140050 Bushing

**Replacing:** 8084316
**Servicing:** E80-1/12, R76.02, R76A, R80C
**ID** 10.08, **OD** 14.02, **Length** 13.50
**Alternative no.:** B140050

## Sundry Parts

### Various

Pkg. 10

## 132122 Brake Washer

**Replacing:** 9089060
**Servicing:** E100-1.5/12, E100N-1.5/12, R100.02
**ID** 24.45, **OD** 36.50, **Thickness** 7.50, **Material** Plastic

Pkg. 5

## 234715 Rubber Gasket

**Replacing:** 8085316
**Servicing:** B76-0.5/12



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#Available while stock last, * Program development.

Pkg. 5

## Armatures

### 12 V

**130360** Armature

**Replacing:** 17127-1

**Servicing:** MTS12-1, MTS12-21, MTS12-22, MTS12-23, MTS12-23S, MTS12-29, MTS12-3, MTS12-34, MTS12-39, MTS12-42, MTS12-47, MTS12-48

12 **V**, 0.8 **kW**, **Shaft length** 250.00, **Core thickness** 54.40, **No./splines** 12, **Rotation** CR

## Field Coils

### 12 V

**130359**# Field Coil

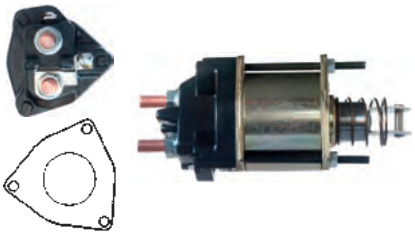
**Replacing:** 17181-2

**Servicing:** MTS12-1, MTS12-21, MTS12-22, MTS12-23, MTS12-23S, MTS12-29, MTS12-3, MTS12-34, MTS12-39, MTS12-42, MTS12-47, MTS12-48

12 **V**, 0.8 **kW**, **Height** 80.45, **Width** 166.00, **Internal height** 55.25, **Inner width** 16.35

## Solenoids

### 12 V

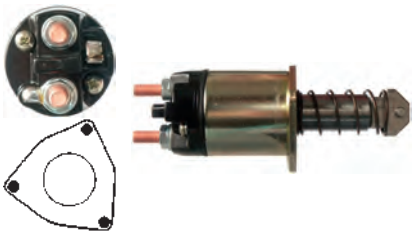


**130377** Solenoid

**Replacing:** 30430-1

**Servicing:** MTA12-P30, MTA12P-7, MTD12-14, MTS12-1, MTS12-21, MTS12-22, MTS12-23, MTS12-23S, MTS12-29, MTS12-39, MTS12-42

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.70, **OD/cover** 64.35, **Total length** 148.85, **Height/B+** 22.40, **Width/kl. 50** 22.80, **Coil bolt** M8, **Coil bolt 2** 22.40, **No./terminals** 3
*Cap: HC-CARGO 131325.*



**131437** Solenoid

**Replacing:** 10332-9

**Servicing:** MTA12-13, MTA12-19, MTA12-19M, MTA12-3, MTA12-30, MTA12-37, MTA12-40, MTA12-41, MTA12-43, MTA12-P19, MTS12-22

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 50.40, **OD/cover** 50.40, **Total length** 127.50, **Height/B+** 21.45, **Width/kl. 50** 13.95, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

**132272** Solenoid

**Replacing:** 32688-1

**Servicing:** MOK12-1

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 23.15, **OD** 52.40, **OD/cover** 49.85, **Total length** 138.40, **Height/B+** 18.95, **Width/kl. 15a** 7.40, **Width/kl. 50** 15.65, **Coil bolt** M8, **Coil bolt 2** 19.85, **No./terminals** 4
*Cap: HC-CARGO 132723.*

## Solenoid Parts

### Solenoid Caps

**131325** Solenoid Cap

**Servicing:** 30430-1, MTA12-19, MTA12-19M, MTA12-2, MTA12-30, MTA12-37, MTA12-40, MTA12-43, MTA12-H04, MTA12-H08, MTA12-H24

**OD** 57.00, **No./terminals** 3
*HC-CARGO 130377.*

**132229** Solenoid Cap

**Servicing:** 10332-9, MTA12-19, MTA12-19M, MTA12-37, MTA12-43, MTA12-P19, MTS12-22, MTS12-29, MTS12-39, MTS12-42, MTS12P-19

**OD** 52.45, **No./terminals** 3
*HC-CARGO 131437, 132227, 132228, 133083, 133566, 139785, 139786, 230325.*

**132722**# Solenoid Cap

**Servicing:** 23159-1, MOA12-10, MOB12-1, MOB12-2, MTS12-29, MTS12-39, MTS12-42

**OD** 50.40, **No./terminals** 4
*HC-CARGO 132271.*

**132723**# Solenoid Cap

**Servicing:** MOB12-1, MOB12-2, MOK12-1, MTS12-48

**OD** 49.15, **No./terminals** 4
*HC-CARGO 132272.*

**132776** Solenoid Cap

**Servicing:** MTA12-30, MTA12-P30, MTS12-P17, MTS12-V12, MTS12-V31

**OD** 65.00, **No./terminals** 3



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## Moving Contacts

Pkg. 5

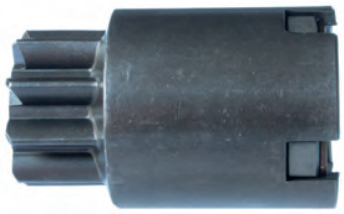
**132724**# Moving Contact

**Replacing:** 25159-1

**Servicing:** MOB12-1, MOB12-2, MOK12-1, MTS12-48

**Length** 35.50, **Shaft measurement** 35.90, **Thickness** 2.50, **Width** 15.00

## Drives



**130449** Drive

**Replacing:** 14898-1

**Servicing:** MTJ12-1, MTU12-1

**ID** 16.00, **OD** 29.10, **OD/housing** 36.90, **Total length** 58.00, **Splines A** 4, **No./teeth** 9, **Rotation** ACR

**130730** Drive

**Replacing:** 17061-8, 17061-2

**Servicing:** MTA12-13, MTA12-20, MTA12-3, MTA12-41, MTA12-42, MTA12-5, MTA12-7, MTV12-5, MTV12-7

**ID** 11.55, **OD** 25.25, **OD/housing** 45.00, **Total length** 62.15, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

**130731** Drive

**Replacing:** 17061-12

**Servicing:** MTA12-30

**ID** 11.55, **OD** 29.20, **OD/housing** 45.00, **Total length** 61.90, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

**130737** Drive

**Replacing:** 17061-3, 17061-14

**Servicing:** MTS12-1, MTS12-21, MTS12-22, MTS12-23, MTS12-23S, MTS12-29, MTS12-3, MTS12-34, MTS12-39, MTS12-42, MTS12-47, MTS12-48

**ID** 11.70, **OD** 25.55, **OD/housing** 43.70, **Total length** 71.15, **Splines A** 6, **No./teeth** 9, **Rotation** CR

**130738** Drive

**Replacing:** 17061-10

**Servicing:** MTD12-14, MTD12-19, MTD12-9

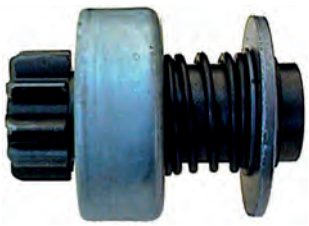
**ID** 14.00, **OD** 29.15, **OD/housing** 46.20, **Total length** 68.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

**130920** Drive

**Replacing:** 9586-1, 9328

**Servicing:** MTA12-1, MTC252-2, MTC252-6, MTC252-7, MTC402-15, MTC402-2

**ID** 12.00, **OD** 26.95, **OD/housing** 41.15, **Total length** 60.65, **Splines A** 6, **No./teeth** 8, **Rotation** ACR

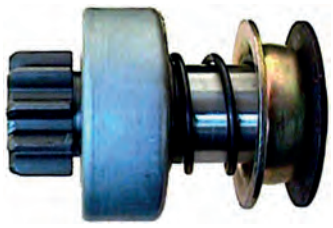


**131064** Drive

**Replacing:** 17061-25

**Servicing:** MTA12-40

**ID** 11.55, **OD** 27.95, **OD/housing** 45.00, **Total length** 61.90, **Splines A** 12, **No./teeth** 10, **Rotation** ACR



**131088** Drive

**Replacing:** 17061-28

**Servicing:** MOK12-1

**ID** 12.05, **OD** 26.70, **OD/housing** 43.20, **Total length** 67.50, **Splines A** 5, **No./teeth** 10, **Rotation** CR

**131713** Drive

**Replacing:** 15053-4

**Servicing:** MTL12-11

**ID** 14.30, **OD** 41.00, **OD/housing** 54.15, **Total length** 90.00, **Splines A** 3, **No./teeth** 11, **Rotation** CR

**131714** Drive

**Replacing:** 3550, 3350

**Servicing:** MTA24-2, MTA24-4, MTH24-1, MTH24-2, MTH24-3

**ID** 14.60, **OD** 41.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

**131716** Drive

**Replacing:** 17061-26

**ID** 11.55, **OD** 29.30, **OD/housing** 46.40, **Total length** 71.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR



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#Available while stock last, * Program development.

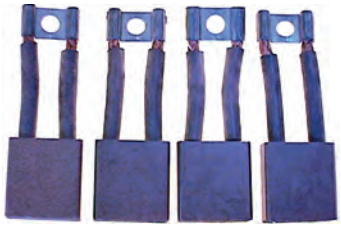
## Brush Sets

### BSX124 Brush Set

**Replacing:** 13784-27

**Servicing:** MTL12-1, MTL12-10, MTL12-11, MTL12-14, MTL12-16, MTL12-20, MTL12-3, MTL12-8, MTL12-9, MTN12-1

6/12 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 13.00, **Thickness** 9.00



### BSX444 Brush Set

**Replacing:** 13784-83, 13784-29

**Servicing:** MOE12-12, MOE12-13, MOE12-5, MOE12-7, MOL12-1, MOL12-8, MTP12-1, MTP12-16, MTP12-17, MTP12-3, MTP12-5

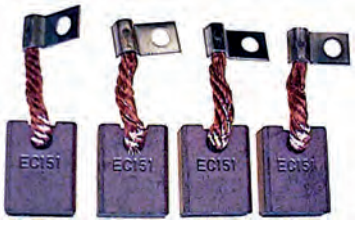
12 **V**, **Length** 22.50, **Lead length** 43.00, **Height** 22.00, **Thickness** 8.00

### FESX25-262 Brush Set

**Replacing:** 13784-84

**Servicing:** MOB12-2

12 **V**, **Length** 18.00, **Lead length** 39.50, **Height** 16.00, **Thickness** 6.00



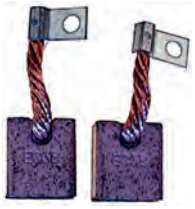
### JSX134 Brush Set

**Replacing:** 13784-7, 13784-59

**Servicing:** E100, MTD12-1, MTD12-14, MTD12-18, MTD12-19, MTR12-1, MTR12-6, MTR24-2, MTR24-7

12 **V**, **Length** 20.00, **Lead length** 33.50, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** JS13



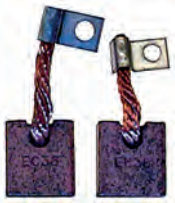
### JSX162 Brush Set

**Replacing:** 13784-37

**Servicing:** E84, MTS12-1, MTS12-10, MTS12-22, MTS12-23, MTS12-29, MTS12-3, MTS12-34, MTS12-37, MTS12-39, MTS12-42, MTS12-47

12 **V**, **Length** 19.00, **Lead length** 31.00, **Height** 17.00, **Thickness** 8.00

**Alternative no.:** JS16



### JSX52 Brush Set

**Replacing:** 13784-68, 13784-5

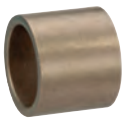
**Servicing:** MOA12-10, MOA12-13, MOA12-2, MOB12-1, MOK12-1, MTA12-1, MTA12-13, MTA12-14, MTA12-19, MTA12-19M, MTA12-20, MTA12-3

12 **V**, **Length** 17.00, **Lead length** 24.50, **Height** 16.00, **Thickness** 6.00

**Alternative no.:** JS5

## Bushings

Pkg. 10



### 140004 Bushing

**Replacing:** 3305-69

**Servicing:** MTL12-1, MTL12-10, MTL12-11, MTL12-14, MTL12-16, MTL12-20, MTL12-3, MTL12-8, MTL12-9, MTN12-1

**ID** 14.08, **OD** 17.58, **Length** 15.00

**Alternative no.:** B140004

Pkg. 10

### 140010 Bushing

**Replacing:** 3305-74

**Servicing:** MOE12-12, MOE12-13, MOE12-5, MOE12-7, MOL12-1, MOL12-8, MTL12-1, MTL12-10, MTL12-11, MTL12-14, MTL12-16, MTL12-20

**ID** 12.59, **OD** 16.55, **Length** 18.00

**Alternative no.:** B140010

Pkg. 10

### 140014 Bushing

**Replacing:** 3305-89, 3305-44

**Servicing:** MOK12-1, MTA12-1, MTA12-13, MTA12-20, MTA12-3, MTA12-30, MTA12-38, MTA12-39, MTA12-40, MTA12-42, MTA12-6, MTV12-1

**ID** 10.08, **OD** 14.09, **Length** 13.00

**Alternative no.:** B140014

Pkg. 10

### 140020 Bushing

**Replacing:** 3305-71

**ID** 19.13, **OD** 25.09, **Length** 10.00

**Alternative no.:** B140020

Pkg. 10

### 140043 Bushing

**Replacing:** 3305-56, 3305-2

**Servicing:** MTO51-2

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** }

Pkg. 10

### 140064 Bushing

**Replacing:** 3305-3

**Servicing:** MTO51-2

**ID** 12.07, **OD** 15.05, **Length** 20.00

**Alternative no.:** B140064

Pkg. 10

## 140065 Bushing

**Replacing:** 3305-40

**ID** 14.07, **OD** 18.05, **Length** 20.15

**Alternative no.:** B140065

Pkg. 10

## 140155 Bushing

**Replacing:** 12665-12

**Servicing:** MOA12-10, MOA12-13, MOA12-2, MOB12-1, MOB12-2, MOK12-1, MTA12-19, MTA12-19M, MTA12-37, MTA12-43, MTA12-P19, MTV12-3

**ID** 10.06, **OD/collar** 16.50, **OD** 14.05, **Length** 13.00, **Height/collar** 2.00

Pkg. 10

## 140156 Bushing

**Replacing:** 3305-13

**Servicing:** MOA12-10, MOA12-13, MOA12-2, MOB12-1, MOB12-2, MOK12-1, MTA12-1, MTA12-13, MTA12-14, MTA12-19, MTA12-19M, MTA12-20

**ID** 10.08, **OD** 14.03, **Length** 13.60

**Alternative no.:** B140156

Pkg. 10

## 140269 Bushing

**Replacing:** 3835-38

**ID** 12.03, **OD** 16.02, **Length** 17.00

**Alternative no.:** B140269

Pkg. 10

## 140436 Bushing

**Replacing:** 3305-10

**Servicing:** MTB12-1, MTC82-3, MTC82-8, MTD12-1, MTD12-14, MTD12-18, MTD12-19, MTR12-1, MTR12-6, MTR24-2, MTR24-7, CITROEN

**ID** 12.04, **OD** 16.00, **Length** 16.00

**Alternative no.:** B140436

Pkg. 10

## 140627 Bushing

**ID** 11.60, **OD** 13.40, **Length** 12.30

**Alternative no.:** B140627

Pkg. 10

## 140628 Bushing

**ID** 14.50, **OD** 16.05, **Length** 25.75

Pkg. 10

## 140690 Bushing

**ID** 11.53, **OD** 13.50, **Length** 23.00

**Alternative no.:** B140690

Pkg. 100

## B140010 Bushing

**Replacing:** 3305-74

**ID** 12.56, **OD** 16.55, **Length** 18.00

**Alternative no.:** 140010

Pkg. 100

## B140014 Bushing

**Replacing:** 3305-89, 3305-44

**ID** 10.08, **OD** 14.09, **Length** 13.00

**Alternative no.:** 140014

Pkg. 100

## B140020 Bushing

**Replacing:** 3305-71

**ID** 19.13, **OD** 25.09, **Length** 10.00

**Alternative no.:** 140020

Pkg. 100

## B140043 Bushing

**Replacing:** 3305-56, 3305-2

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** 140043



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Pkg. 100

**B140064** Bushing
**Replacing:** 3305-3
**ID** 12.06, **OD** 15.07, **Length** 19.90
**Alternative no.:** 140064

Pkg. 100

**B140065** Bushing
**Replacing:** 3305-40
**ID** 14.07, **OD** 18.05, **Length** 20.15
**Alternative no.:** 140065

Pkg. 100

**B140269** Bushing
**Replacing:** 3835-38
**ID** 12.03, **OD** 16.02, **Length** 17.00
**Alternative no.:** 140269

Pkg. 100

**B140436** Bushing
**Replacing:** 3305-10
**ID** 12.04, **OD** 16.00, **Length** 16.00
**Alternative no.:** 140436

Pkg. 100

**B140627** Bushing
**Replacing:** 140627
**ID** 11.62, **OD** 13.42, **Length** 12.32
**Alternative no.:** 140627

Pkg. 100

**B140690** Bushing
**Replacing:** 140690
**ID** 11.53, **OD** 13.50, **Length** 23.00
**Alternative no.:** 140690

## Sundry Parts

### Various

**231001** Washer Kit
**Replacing:** 24460-M8011

## Armatures

### 12 V

**130115** Armature

**Replacing:** 83BB11005BA, 78GB11005BA

**Servicing:** 6160440, 835F11000AC

12 **V**, 2.4 **kW**, **Shaft length** 290.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*9 V: HC-CARGO 133087.*

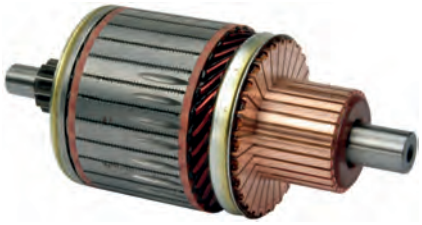
**Alternative no.:** F032130115

**130210** Armature

**Replacing:** C5NF11005C

**Servicing:** M50

12 **V**, 2.8 **kW**, **Shaft length** 303.30, **Core thickness** 84.00, **No./splines** 3, **Rotation** CR



**136634** Armature

**Replacing:** SM475, F2PZ11005A, E9O-Z11005A, E90Z11005A

**Servicing:** 1057652, 3852582, 5029143, 6775703, 6775704, 7041784, 93BB11000HB, 93BB11000JB, 93BB11000KA, 93BB11000KB, E90F11000AA

12 **V**, **Shaft length** 129.10, **Core thickness** 55.43, **No./teeth** 11, **Rotation** CR/ACR

*Shaft: HC-CARGO 136637.*

**139352** Armature

**Replacing:** SM461, F4TZ11005A

**Servicing:** F4PU11000AA, F4TZ11002A

12 **V**, 2.5 **kW**, **Shaft length** 169.40, **Core thickness** 53.45, **No./splines** 13

**139646** Armature

**Replacing:** E5PZ11005A

**Servicing:** E3TZ11002A, E5TZ11002B, E8T-F11000AA, E8TZ11002A, F3TU11000AA

12 **V**, 2.5 **kW**, **Shaft length** 177.50, **Core thickness** 60.00, **No./teeth** 9, **Rotation** CR

**230739** Armature

**Replacing:** XC1U11005AA

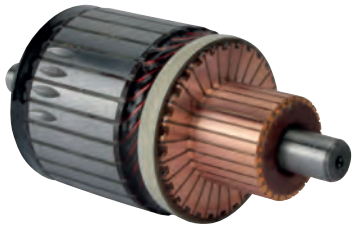
**Servicing:** 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1120215, 1126987, 1133994, 1140110

12 **V**, 1.9/2.2 **kW**, **Shaft length** 156.00, **Core thickness** 54.00, **No./teeth** 11

**231080** Armature

**Servicing:** 1063999, 1064000, 1067622, 1229427, 1233234, 1254222, 1368970, 1469712, 1S7U11000AB, 1S7U11000AC, 1S7U11000AD

12 **V**, **Shaft length** 122.00, **Core thickness** 44.00, **No./teeth** 9, **Rotation** CR



**231138** Armature

**Replacing:** SM482, F2TZ11005A

**Servicing:** 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 4X4U11000AB, 4X4U11000AC, 93BB11000HC

12 **V**, **Shaft length** 126.55, **Core thickness** 55.45, **No./teeth** 11, **Rotation** CR/ACR

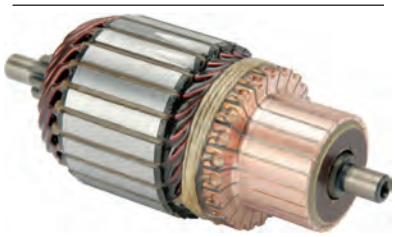
*Shaft: HC-CARGO 231139.*

**231471** Armature

**Replacing:** F4XY11005A

**Servicing:** F32Z11002B

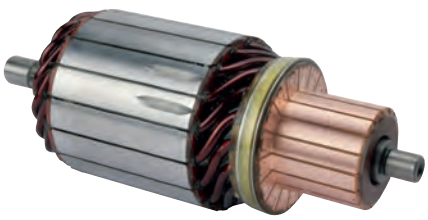
12 **V**, 1.7/2 **kW**, **Shaft length** 143.55, **Core thickness** 54.00, **No./teeth** 11, **Rotation** CR/ACR



**235725** Armature

**Servicing:** 1140757, 1144505, 1151216, 1151642, 1197912, 1205240, 1209193, 1233277, 1237323, 1250901, 1251700, 1300504, 1325943

12 **V**, 1.1 **kW**, **Shaft length** 110.53, **Core thickness** 44.36, **No./teeth** 9



**237507** Armature

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1469721, 1477974, 2T1411000CB, 2T1411000CC, 3M5T11000DB, 3M5T11000DC, 4424968

12 **V**, 2.2 **kW**, **Shaft length** 146.70, **Core thickness** 53.80, **No./teeth** 10



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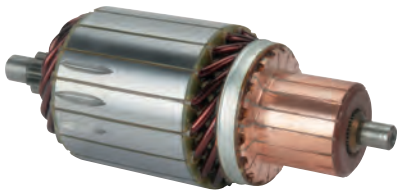


**330215** Armature

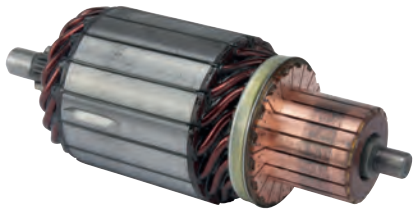
**Servicing:** 1387092, 6G9N11000EB, 6G9N11000EC

12 **V**, 2 **kW**, **Shaft length** 146.75, **Core thickness** 53.80, **No./teeth** 10

**330929** Armature

**Servicing:** 1465115, 1476606, 1529431, 4M5T11000FC, 6G9N11000GB, 6G9N11000GC

12 **V**, 2.2 **kW**, **Shaft length** 146.90, **Core thickness** 53.77, **No./teeth** 10, **Rotation** CR



**332591** Armature

**Servicing:** 1480550, 6G9N11000EC

12 **V**, 2 **kW**, **Shaft length** 146.85, **Core thickness** 53.80, **No./teeth** 11, **Rotation** CR

## Yokes

### Yoke Parts

### Magnets

Pkg. 3

**136719** Magnet (north)

**Servicing:** 1061272, 4X4U11000AC, 7041784, 98AB11000EC, F7PU11000DA, F7PZ11002DA, F87U11000A1A

**Length** 45.00, **Height** 8.00, **Width** 22.00, **Pole type** North

*3 magnets.*

Pkg. 3

**136720**# Magnet (south)

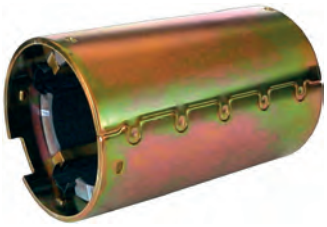
**Servicing:** 1061272, 4X4U11000AC, 7041784, 98AB11000EC, F7PU11000DA, F7PZ11002DA, F87U11000A1A

**Length** 45.00, **Height** 8.00, **Width** 22.00, **Pole type** South

*3 magnets.*

## Yokes w/ magnets

### 12 V



**230740** Yoke

**Replacing:** F7RU11075AA1

**Servicing:** 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1126987, 1133994, 1S4U11000AA

12 **V**, 2.2 **kW**, **OD/middle** 79.00, **Length** 128.00, **Brush gear** w/o, **Magnets** w/

**231145** Yoke

**Replacing:** E9OZ11075A, E90Z11075A

**Servicing:** 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 3852582, 4X4U-11000AB, 4X4U11000AC

**OD/middle** 77.90, **Length** 97.65, **Brush gear** w/o, **Magnets** w/

**235791** Yoke

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 1S7U11000DA

12 **V**, 2.1 **kW**, **OD/middle** 78.70, **Length** 128.00, **Rotation** ACR, **Magnets** w/

## Field Cases

**231461** Field Case

**Replacing:** F5TZ11K192A, F4TZ11K192A

12 **V**, 2.5 **kW**, **OD/middle** 85.40, **Length** 94.15

**236858** Field Case

**Servicing:** 1151216, 1250901, 1251700, 1300504, 1325943, 1345314, 1366473, 1366986, 1379702, 1379703, 1387091, 1473072, 1477482

12 **V**, 1.1 **kW**, **OD/middle** 67.00, **Length** 85.00

## Field Coils

### 12 V

**135338** Field Coil

**Replacing:** E3PZ11062A

**Servicing:** 20MT, 27MT

12 **V**, **Height** 130.40, **Width** 243.90, **Internal height** 100.90, **Inner width** 31.85

## C.E. Brackets

**230897** C.E. Bracket

**Servicing:** 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1126987, 1387092, 1477974, 1480550

*Bearing: HC-CARGO 142279.*

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**231142** C.E. Bracket

**Replacing:** SH223, SH220, F2TZ11049B, F2TZ11049A, F2PZ11049A, E90Z11049A

**Servicing:** 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 3852582, 4X4U-11000AB, 4X4U11000AC

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**232490** C.E. Bracket

**Replacing:** E5PZ11049A

**Servicing:** E8TF11000AA, F3TU11000AA

**ID** 84.50

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**232491** C.E. Bracket

**Replacing:** F4TZ11049A

**ID** 77.04

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**235114** C.E. Bracket

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 2S7T11000DA, 2S7T11000DB

**ID** 80.00

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**237612** C.E. Bracket

**Servicing:** 1449615, 1541002, 4520765, 4529404, 4742541, RYC1U11000AF, YC-1U11000AD, YC1U11000AE, YC1U11000AG

**ID** 22.00

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## D.E. Brackets

**231152**[#] D.E. Bracket

**Replacing:** SE350, F3RZ11130A

**Servicing:** 1057652, 6775703, 93BB11000HB, 93BB11000HC, F3RZ11002A, SA-813

*Needle bearing: HC-CARGO 140242.*

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**231210** D.E. Bracket

**Replacing:** SE352, F3RZ11130C

**Servicing:** 1057661, 1076141, 1085273, 1367529, 1X4U11000AA, 4X4U11000AB, 4X4U11000AC, 7041784, 93BB11000KA, 93BB11000KB

*Needle bearing: HC-CARGO 140242.*

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**234989** D.E. Bracket

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

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**238850** D.E. Bracket

**Servicing:** 1133994, 1477974, 1S4U11000AA, 1S4U11000AB, 2T1411000CB, 2T1411000CC, 4424968, 98AB11000AD

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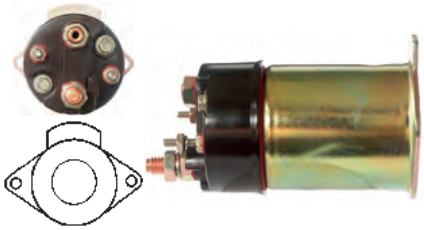
## Solenoids

### 12 V



**130499** Solenoid

**Replacing:** D6TZ11390A

**Servicing:** 10MT, 20MT, 25MT, 27MT

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 31.35, **OD** 59.80, **OD/cover** 65.10, **Total length** 122.15, **Coil bolt** 3/8" UNC, **No./terminals** 4

*Cap: HC-CARGO 130497.*

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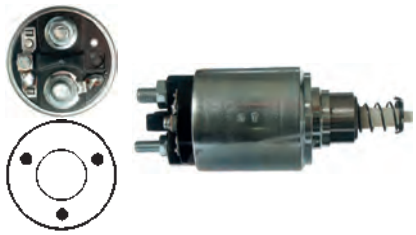

**131142** 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** SH222

12 **V**, **B+** M8, **ID/cover** 30.15, **OD** 61.15, **OD/cover** 53.55, **Total length** 160.20, **Height/B+** 18.50, **Coil bolt** M10, **Coil bolt 2** 16.85, **No./terminals** 3

*Cap: HC-CARGO 131319.*

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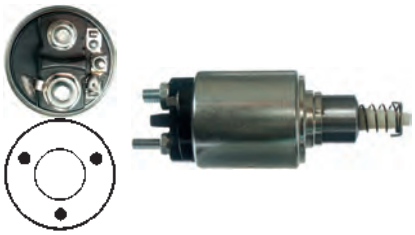
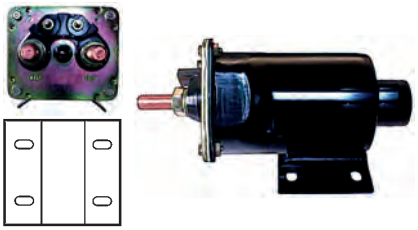
All measurements are in mm, unless else stated.
[#]Available while stock last, * Program development.



## 131189 Solenoid

**Replacing:** 78GB11390AA

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 29.85, **OD** 61.00, **OD/cover** 53.10, **Total length** 171.75, **Height/B+** 19.00, **Width/kl. 50** 13.70, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 133159.*

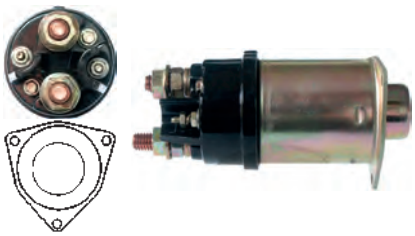


## 131363 Solenoid

**Replacing:** E1HZ11390A, C3TZ11390A, C3TS11390A

**Servicing:** 40MT, 50MT

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 74.60, **Total length** 201.00, **Height/B+** 28.00, **Width/kl. 15a** 9.00, **Width/kl. 50** 9.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 18.00, **No./terminals** 4
*Insulated return. Square type. Cap: HC-CARGO 131367.*

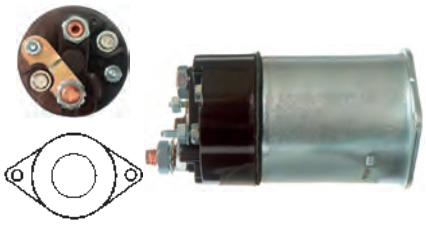


## 131369 Solenoid

**Replacing:** E6HZ11390C, E6HZ11390B

**Servicing:** 42MT

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 68.80, **OD/cover** 78.10, **Total length** 177.80, **Height/B+** 26.00, **Width/kl. 15a** 12.50, **Width/kl. 50** 12.50, **Coil bolt** 1/2" UNC, **Coil bolt 2** 17.50, **No./terminals** 4
*Insulated retun. Cap: HC-CARGO 135324. Solenoid w/ plunger: HC-CARGO 234476.*

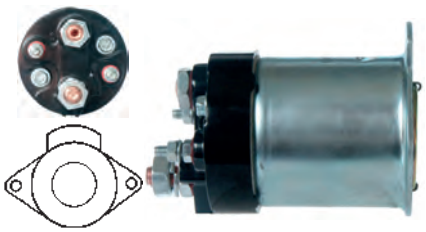


## 131396 Solenoid

**Replacing:** D6VZ11390A, D5AZ11390A, D3VY11390A, D3TZ11390A, C8VY11390A

**Servicing:** 5027805, 6816676, 91AB11000AB, 92AB11000FB, C8VF11000A, C8VY11002C, C9AF11001A, D2AF11001ER, D5AF11001AB

12 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 31.00, **OD** 61.00, **OD/cover** 62.65, **Total length** 121.85, **Height/B+** 20.30, **Width/kl. 50** 14.00, **No./terminals** 4

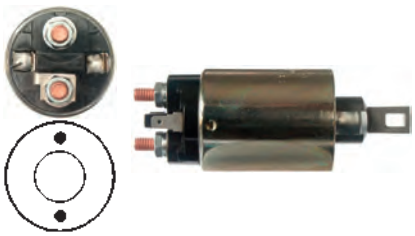


## 131590 Solenoid

**Replacing:** SW1864, E4FZ11390A, E3P-Z11390A

**Servicing:** 5MT, 22MT

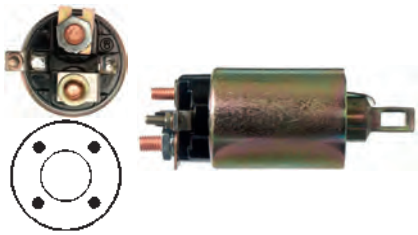
12 **V**, **B+** 3/8" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 28.50, **OD** 59.90, **OD/cover** 65.55, **Total length** 105.25, **Height/B+** 14.50, **Width/kl. 15a** 10.00, **Width/kl. 50** 10.00, **Coil bolt** 3/8" UNC, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 137809.*



## 132473 Solenoid

**Replacing:** E3TZ11390A

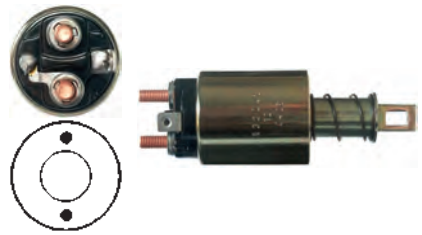
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.75, **OD/cover** 49.20, **Total length** 148.30, **Height/B+** 18.00, **Width/kl. 50** 16.00, **Coil bolt** M8, **Coil bolt 2** 18.15, **No./terminals** 3
*Cap: HC-CARGO 134625.*



## 132917 Solenoid

**Replacing:** SB417

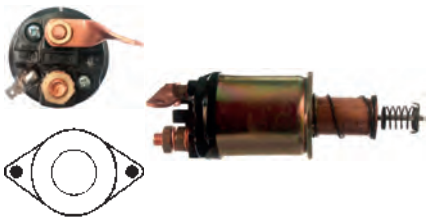
12 **V**, **B+** M10, **Kl. 50** 9.40, **OD** 55.20, **OD/cover** 48.50, **Total length** 146.00, **Height/B+** 19.65, **Width/kl. 50** 10.65, **Coil bolt** M10, **Coil bolt 2** 13.00, **No./terminals** 3
*Cap: HC-CARGO 133287.*



## 133043 Solenoid

**Replacing:** E2NN11390AA

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 52.30, **OD/cover** 44.35, **Total length** 129.85, **Height/B+** 16.55, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 15.55, **No./terminals** 3
*Cap: HC-CARGO 133276.*



## 134888 Solenoid

**Replacing:** 84VB11390AA

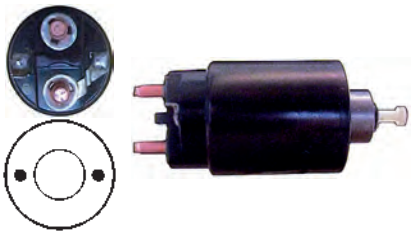
**Servicing:** M127/2.8 KW

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.60, **OD/cover** 59.70, **Total length** 181.45, **Height/B+** 24.55, **Width/kl. 50** 23.55, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 3
*Cap: HC-CARGO 132270.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



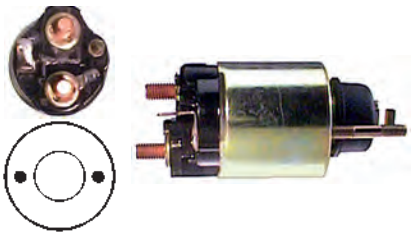
## 136632 Solenoid

**Replacing:** SW5038, SW2502A, SW2502, SW2245, SW2207, SW2188, F4DZ11390A, F3VY11390B, F3VY11390A, F02Z11390A

**Servicing:** 3852582, E90F11000AA, E90F-11000BA, E98F11000AA, E98F11000BA, E9SF11000AA, E9SF11000AB, E9SF11000BA, E9SZ11002A

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.40, **Total length** 126.90, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 15.50, **No./terminals** 3

*Cap: HC-CARGO 137582.*



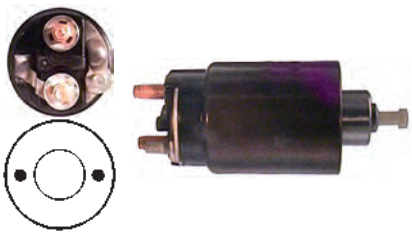
## 137720 Solenoid

**Replacing:** 81AB11390BA

**Servicing:** 81AB11000FA

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **OD** 50.80, **OD/cover** 50.00, **Total length** 118.20, **Height/B+** 11.55, **Width/kl. 15a** 9.95, **Width/kl. 50** 15.35, **Coil bolt** M8, **Coil bolt 2** 12.30, **No./terminals** 4

*Cap: HC-CARGO 131291.*



## 138496 Solenoid

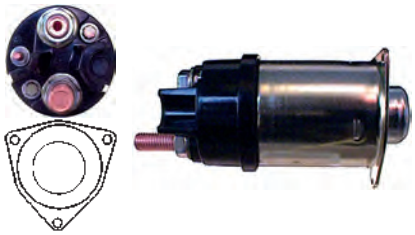
**Replacing:** XS7U11390AA, XS6U11390AA, SW5204, SW2507, SW2506, F78Z11390AA, F3RZ11390B, F3RZ11390A, E3RZ11390A

**Servicing:** 1061272, 1345314, 1477974, 1480550, 1551240, 1S4U11000AA, 1S4U-11000AB, 1S7U11000AC, 3S4T11000AB, 3S4T11000AC, 4033064

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.45, **Total length** 131.80, **Height/B+** 16.50, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 17.00, **No./terminals** 4

*Cap: HC-CARGO 138497. Moving contact: HC-CARGO 137529.*

**Alternative no.:** 610306



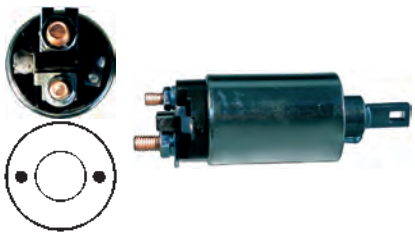
## 139209 Solenoid

**Replacing:** SW2157, E7HZ11390B

**Servicing:** 37MT, F3HT11001AB, F3HZ11002C

12 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.00, **OD** 68.75, **OD/cover** 77.40, **Total length** 179.00, **Height/B+** 26.00, **Coil bolt** 1/2" UNC, **No./terminals** 3

*Cap: HC-CARGO 232014.*



## 139614 Solenoid

**Replacing:** E5PZ11390A, E4TZ11390A

**Servicing:** E8TF11000AA, F3TU11000AA

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 55.00, **OD/cover** 49.00, **Total length** 171.15, **Height/B+** 23.65, **Width/kl. 50** 9.15, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3

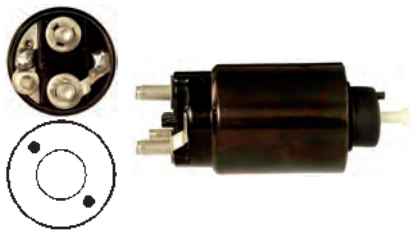
## 231178 Solenoid

**Replacing:** SW5203, SW5112, F6VZ11390AA

**Servicing:** F6VU11000AA, F75U11000AA, F7LU11000BA, F7PU-11000-AA, F7PU-11000-DA, F7PU-11000-EA, F7PU11000BA, F7PU11000CA

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.35, **OD/cover** 44.50, **Total length** 126.50, **Height/B+** 12.00, **Width/kl. 50** 13.50, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3

*Cap: HC-CARGO 231180.*



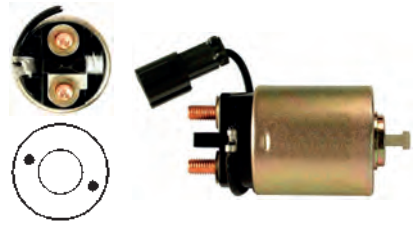
## 231179 Solenoid

**Replacing:** SW5189, F8ZZ11390BA, F8Z-Z11390AB, F8ZZ11390AA, F75Z11390AA

**Servicing:** F75U11000AB, F77U11000AA, F7UZ1002AA, F81U11000AA, F81U11000AC, F81Z11002AA

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.40, **OD/cover** 44.75, **Total length** 126.60, **Height/B+** 12.50, **Width/kl. 50** 13.50, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 3

*Cap: HC-CARGO 231180.*

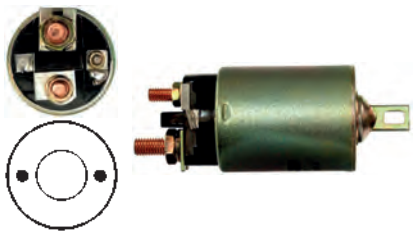


## 231454 Solenoid

**Replacing:** F4XY11390A

12 **V**, **B+** M8, **ID/cover** 24.70, **OD** 51.55, **OD/cover** 45.15, **Total length** 105.00, **Height/B+** 14.40, **Coil bolt** M8, **Coil bolt 2** 14.40, **No./terminals** 3

*Cap: HC-CARGO 231107.*



## 231457 Solenoid

**Replacing:** F4TZ11390A

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 55.15, **OD/cover** 48.55, **Total length** 143.00, **Height/B+** 25.25, **Width/kl. 50** 11.30, **Coil bolt** M8, **Coil bolt 2** 18.95, **No./terminals** 3

*Cap: HC-CARGO 231458.*



O.E.M. names and numbers are used for reference purposes only.

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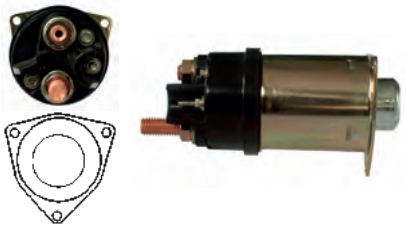
#Available while stock last, * Program development.



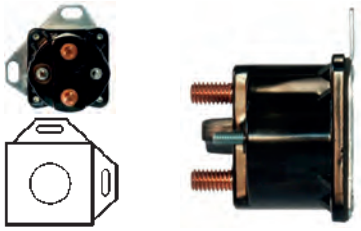
## 231914 Solenoid

**Replacing:** SW2114, SW-2114

**Servicing:** 37MT

12 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.25, **OD** 68.85, **OD/cover** 76.40, **Total length** 177.65, **Coil bolt** 1/2" UNC, **No./terminals** 3

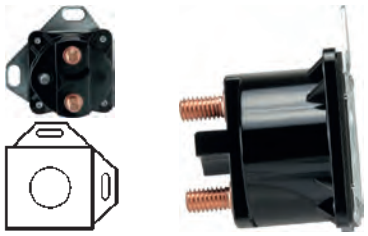
*Cap: HC-CARGO 232028.*



## 231930 Solenoid

**Replacing:** SW1533C, SW1533A, SW1533, ETTZ11450A, E9TZ11450A, E8TZ11450A, E8T211450B, E5AZ11450A, E5AZ-11450-A

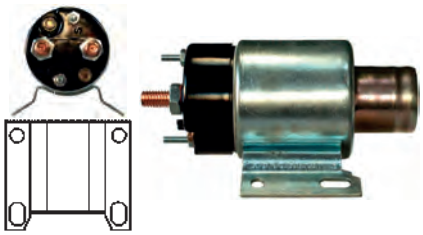
12 **V**, 100 **Amp**, **Intermittent load** 800 Amp, **B+** 5/16" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 10-32 UNF, **OD** 48.70, **OD/cover** 49.30, **Total length** 58.30, **Height/B+** 12.00, **Width/kl. 15a** 8.00, **Width/kl. 50** 5.00, **Coil bolt** 5/16" UNC, **Coil bolt 2** 12.00, **No./terminals** 4



## 232220 Solenoid

**Replacing:** SW1951C, SW1951B, SW1951A, E7TZ11450A, E5TZ11450A, E5TZ-11450A

12 **V**, 100 **Amp**, **Intermittent load** 800 Amp, **B+** 5/16" UNC, **Kl. 50** 10-32 UNF, **OD** 49.05, **OD/cover** 49.05, **Total length** 58.75, **Height/B+** 12.00, **Width/kl. 50** 5.50, **Coil bolt** 5/16" UNC, **Coil bolt 2** 12.00, **No./terminals** 3



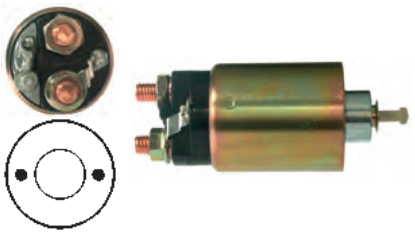
## 232221 Solenoid

**Replacing:** C6TZ11390A

**Servicing:** 30MT

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 32.05, **OD** 66.30, **OD/cover** 62.15, **Total length** 148.00, **Height/B+** 13.00, **Width/kl. 15a** 14.00, **Width/kl. 50** 10.50, **Coil bolt** 3/8" UNC, **Coil bolt 2** 15.00, **No./terminals** 4

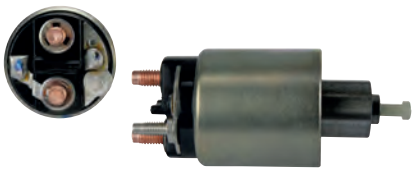
*Cap: HC-CARGO 232222.*



## 233890 Solenoid

**Servicing:** 1C2411000AA, 1C2Z11002AA, 1C3U11000AA, 1C3U11000AB, 1C3U11000AC, 1C3U11000AD, 1C3U11000AE, 1C3Z11002AA, 2C2411000AA

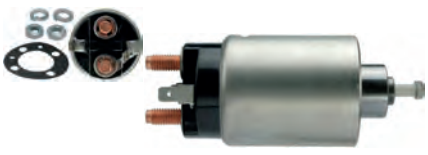
12 **V**, **B+** M10, **Kl. 50** M5, **OD** 51.35, **Total length** 127.20, **Height/B+** 15.50, **Width/kl. 50** 15.00, **Coil bolt** M10, **Coil bolt 2** 14.50, **No./terminals** 3



## 235496 Solenoid

**Servicing:** 2S6U11000EB, YS1U11000BA, YS4U11000AA, YS4U11000AB, YS4U11000BA

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 13.50, **OD** 51.40, **OD/cover** 49.50, **Total length** 82.50, **Switch dim.** 7.00, **Height/B+** 15.00, **Width/kl. 50** 15.00, **No./terminals** 3



## 236961 Solenoid

**Servicing:** F8RU11000AA, F8RU11000CA

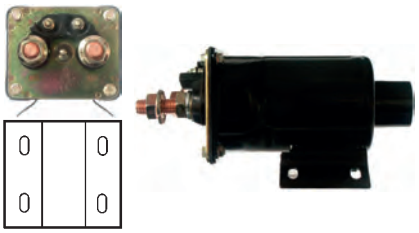
12 **V**, **B+** M8, **No./terminals** 3

## 239797 Solenoid

**Servicing:** 1151216, 1151642, 1197912, 1205240, 1209193, 1233277, 1250901, 1251700, 1300504, 1325943, 1366473, 1366986, 1379702

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.69, **Total length** 83.00, **Height/B+** 14.08, **No./terminals** 3

### 24 V



## 131364 Solenoid

**Replacing:** C4TZ11390A

**Servicing:** 40MT, 50MT

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 31.00, **OD** 74.40, **Total length** 201.75, **Coil bolt** 1/2" UNC, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 131368.*

## 235816 Solenoid

24 **V**, **OD** 53.00, **Total length** 64.00, **No./terminals** 4

## Solenoid Parts

### Solenoid Caps

## 135324 Solenoid Cap

**Servicing:** 42MT

**OD** 76.85, **No./terminals** 4

*HC-CARGO 131369.*



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

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## 137582 Solenoid Cap

**Servicing:** 3852582, E90Z11390A, E98F11000AA, E98F11000BA, E9SF11000AA, E9SF11000AB, E9SF11000BA, E9SZ11002A, E9SZ11002B

**OD** 49.40, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 136632.*

## 138497 Solenoid Cap

**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061458, 1063999, 1064000, 1067622, 1073093, 1073108

**OD** 49.30, **No./terminals** 3
*HC-CARGO 138496.*

Pkg. 5

## 231180# Solenoid Cap

**Servicing:** F6VZ11390AA, F75Z11390AA, F8ZU11390AA

**OD** 49.10, **No./terminals** 3
*HC-CARGO 231178, 231179.*

## 332555 Solenoid Cap

**Servicing:** 1345314, 1477974, 1551240, 1S4U11000AB, 3S4T11000AB, 3S4T11000AC, 4542546, 4X4U11000AC, 6G9N11000BB, 7041784

**OD** 49.57, **No./terminals** 3,
**Bracket type** Crimp

### Moving Contacts

Pkg. 5

## 137529 Contact Kit

**Servicing:** 1345314, 1477974, 1480550, 1S4U11000AB, 3S4T11000AB, 3S4T11000AC, 4033064, 4542546, 4X4U11000AC, 6G9N-11000BB, 7041784

**Length** 27.65, **Width** 15.20

### Various

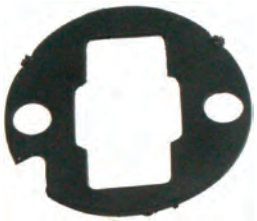
Pkg. 10

## 231140 Screw

**Servicing:** 1061272, 1345314, 1476606, 1477974, 1480550, 1525794, 1525795, 1535628, 1551240, 1S4U11000AB, 3S4T11000AB, 3S4T11000AC

**Thread** M6, **Total length** 38.25,
**Thread length** 11.40, **Countersink** Yes

Pkg. 5



## 232942 Gasket

**Servicing:** 3S4T11000AB, 3S4T11000AC, 4542546, 4X4U11000AC, 7041784

**ID** 30.90, **ID/mount. hole** 7.00,
**OD** 44.60, **Thickness** 0.95, **Material** Rubber

Pkg. 10

## 330583 Rubber Boot

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

**ID** 10.59, **OD** 36.00, **Thickness** 18.11

### Drives

## 130535 Drive

**Replacing:** SD302, SD176, SD175, SD164, SD152, D6PZ11350B, D6PF11A108BA, D5A-F11350AA, C9HZ11350A, C9HZ10350A

**Servicing:** C7AF11001B, C8VF11000A, C8VY11002C, C9AF11001A, D2AF11001ER, D5AF11001AB, D80F11001AA, E1AF11001BA

**ID** 12.00, **OD** 25.10, **OD/housing** 46.25, **Total length** 72.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 130538 Drive

**Replacing:** C6TZ11350A

**Servicing:** 30MT

**ID** 14.30, **OD** 39.85, **OD/housing** 60.00, **Total length** 96.15, **Splines A** 3, **No./teeth** 10, **Rotation** CR

**Best Choice**

## 130539 Drive

**Replacing:** D4HF11350BA, C9HE11350A, C8DF11350A, C3DE11350A, C2DZ11350A

**Servicing:** 40MT, 42MT, 50MT, C3TF11000A, C3TZ11001A, C5TZ11002C, C6TF11001A

**ID** 15.90, **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR
*Bronze.*

**Alternative no.:** 130539Z



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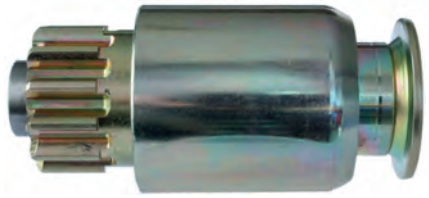
#Available while stock last, * Program development.

## 130539Z Drive

**Replacing:** D4HF11350BA, C9HE11350A, C8DF11350A, C3DE11350A, C2DZ11350A

**ID** 15.90, **OD** 56.50, **OD/housing** 58.25, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 130539



## 131056 Drive

**Replacing:** D4HF11350AA, C9WF11350C, C8TZ11350D, C8TZ11350B

**Servicing:** 40MT, 42MT, 50MT, C8ZF11000C, D30Z11002A, D3TF11000CA

**ID** 15.90, **OD** 46.20, **OD/housing** 57.65, **Total length** 120.40, **Splines A** 19, **No./teeth** 12, **Rotation** CR

## 131770 Drive

**Replacing:** SD180, C8WF11350A, C8TZ11350A

**Servicing:** 40MT, C8TF11000B, C8TZ11002A, E0HT11000AA, E0HT11000AB, E0HZ11002A

**ID** 15.90, **OD** 49.20/1.937", **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 13, **Rotation** CR

## 131986 Drive

**Replacing:** SD499

**ID** 12.40, **OD** 28.00, **OD/housing** 46.25, **Total length** 60.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

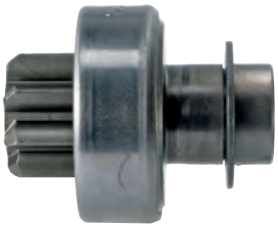
CAR GO **Best Choice**

## 132005 Drive

**Replacing:** SDE349, SDE332, F4BZ11350A, E7GZ11350A

**ID** 12.00, **OD** 28.20, **OD/housing** 45.50, **Total length** 56.00, **Splines A** 8, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 132005Z

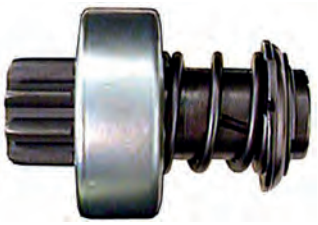


## 132005Z Drive

**Replacing:** SDE349, SDE332, F4BZ11350A

**ID** 12.00, **OD** 28.00, **OD/housing** 46.20, **Total length** 55.65, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132005



## 132751 Drive

**Replacing:** SD320, E2PZ11350A, E2BZ11350A

**ID** 12.00, **OD** 25.30, **OD/housing** 48.00, **Total length** 70.15, **Splines A** 4, **No./teeth** 9, **Rotation** CR

## 133507 Drive

**Replacing:** E6HZ11350A

**Servicing:** 37MT

**ID** 14.35, **OD** 39.50/1.555", **OD/housing** 60.00, **Total length** 99.00/3.898", **Splines A** 3, **No./teeth** 10, **Rotation** CR

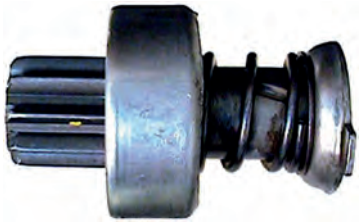
## 133854 Drive

**Replacing:** SD303, C8JS11350A

**Servicing:** 28MT

**ID** 14.00, **OD** 32.00, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

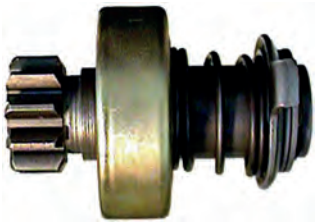
*w/ rubber seal.*



## 133864 Drive

**Replacing:** D6FF11350AA, C9FF11350B, C9FF11350A, C6FF11350B, C6FF11350A

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 77.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR



## 133887# Drive

**Replacing:** 79AB11350AA

**Servicing:** 79AB11000BB, 79AB11000BC, 79AB11000BO, 81AB11000EA, 81AB11000GB

**ID** 12.00, **OD** 26.65, **OD/housing** 47.65, **Total length** 67.85, **Splines A** 4, **No./teeth** 10, **Rotation** CR

## 134918 Drive

**Replacing:** SDE350, SDE334, F4BZ11350B, E8BZ11350A

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 56.20, **Splines A** 8, **No./teeth** 8, **Rotation** ACR



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## 136633 Drive

**Replacing:** SD357, SD337, F90Z11350A, F5DZ11350A, E9OZ11350A, E90Z11350A, E5DZ11350A

**Servicing:** 1057661, 1076141, 1085273, 1151642, 1205240, 1367529, 1379703, 1388569, 1525795, 1X4U11000AA, 2S7T11000AA, 2S7T11000AB

**ID** 12.00, **OD** 27.65, **OD/housing** 46.35, **Total length** 46.55, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 138209 Drive

**Replacing:** XS6411350AA, SD353, SD-353, F5RU11350RA, F3RZ11350A, 53R211350A

**Servicing:** 1057652, 1057654, 1058429, 1061458, 1073093, 1087280, 1104965, 1118336, 1126987, 1133994, 1151216, 1250901, 1345314

**ID** 12.00, **OD** 26.80, **OD/housing** 46.00, **Total length** 47.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 139341 Drive

**Servicing:** 1024508, 1027928, 1059179, 1073108, 1093471, 1105310, 5026497, 97VB11000AA, 97VB11000AB, 97VB11000BA, 98VB11000AA

**ID** 12.00, **OD** 46.60, **OD/housing** 45.50, **Total length** 47.25, **Splines A** 12, **No./teeth** 13, **Rotation** CR

**Alternative no.:** 139341ZZ

## 139341ZZ Drive

**Replacing:** F7RUK614, 139341ZZ, 10670F7RU, 106688

**ID** 12.00, **OD** 45.70, **OD/housing** 45.35, **Total length** 46.90, **Splines A** 12, **No./teeth** 13, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 139341

## 139710 Drive

**Replacing:** F5BU11350AA

**Servicing:** 1027772, 95FB11000BB, 95FB11000BC, 95FB11000BD, 95FB11000BG

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

**Alternative no.:** 139710Z

## 139710Z Drive

**Replacing:** F5BU11350AA

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

**Alternative no.:** 139710

## 231960 Drive

**Replacing:** SD341, F2VY11350A

**Servicing:** 1140757, 1144505, 1350459, 1368974, 1483817, 2S6U11000EA, 2S6U11000EB, 2S6U11000EC, 2S6U11000ED, 2S6U11000EE

**ID** 12.00, **OD** 31.70, **OD/housing** 46.35, **Total length** 47.00, **Splines A** 12, **No./teeth** 12, **Rotation** CR

## 231961 Drive

**Replacing:** SD340, F0FZ11350A

**Servicing:** 1387091, 1387092, 1480550, 6G9N11000BB, 6G9N11000EB, 6G9N11000EC, F0CF11000AA, F0CU11000AA, SA-779

**ID** 12.00, **OD** 29.50, **OD/housing** 46.25, **Total length** 47.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 231962 Drive

**Replacing:** SD327, E6FZ11350A, E6EF11350AA

**Servicing:** E3FZ11002A, E6EF11001A, E6FZ11002A

**ID** 12.00, **OD** 27.80, **OD/housing** 46.30, **Total length** 71.65, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 231967 Drive

**Replacing:** D2058

**Servicing:** SD205, -255

**ID** 12.00, **OD** 25.00, **OD/housing** 43.35, **Total length** 73.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 233830 Drive

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

**ID** 12.00, **OD** 38.00/1.56", **OD/housing** 49.00, **Total length** 48.00/1.89", **Splines A** 12, **No./teeth** 12, **Rotation** ACR

**Alternative no.:** 233830Z



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#Available while stock last, * Program development.

## 233830Z Drive

**ID** 12.00, **OD** 37.40, **OD/housing** 45.20, **Total length** 47.30, **Splines A** 12, **No./teeth** 12, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 233830

## 234135 Drive

**Servicing:** 1120214, 1140111, 1218885, 1251700, 1300504, 1325943, 1366473, 1366986, 1379702, 1465010, 1477482, 1478129, 1525794

**ID** 12.00, **OD** 34.20, **OD/housing** 45.35, **Total length** 46.65, **Splines A** 6, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 234135Z

## 234135Z Drive

**ID** 12.00, **OD** 34.10, **OD/housing** 45.15, **Total length** 47.10, **Splines A** 6, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 235135

## 234773 Drive

**Servicing:** F8RU11000AA

**ID** 12.00, **OD** 38.00, **OD/housing** 48.60, **Total length** 47.00, **Splines A** 12, **No./teeth** 12, **Rotation** CR

## 234861 Drive

**Replacing:** 1C3U10350AB

**Servicing:** 1C2411000AA, 1C2Z11002AA, 1C3U11000AA, 1C3U11000AB, 1C3U11000AC, 1C3U11000AD, 1C3U11000AE, 1C3Z11002AA, 2C2411000AA

**OD** 37.30, **Total length** 115.70, **No./teeth** 12, **Rotation** CR

## 235199 Drive

**Servicing:** 1063999, 1064000, 1237323, 98AB11000BB, 98AB11000BC, 98AB11000BD, 98AB11000CB, 98AB11000CC, 98AB11000CD, YS4U11000AA

**ID** 12.00, **OD** 26.70, **OD/housing** 45.00, **Total length** 57.50, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 235624 Drive

**Replacing:** C1AZ11350A

**ID** 16.00, **OD** 29.20, **OD/housing** 53.00, **Total length** 137.00, **No./teeth** 9, **Rotation** ACR

## 236876 Drive

**Servicing:** 1229427, 1231963, 1233234, 1254222, 1351989, 1368970, 1376305, 1385784, 1465115, 1469712, 1469721, 3M5T11000CB

**ID** 12.01, **OD** 35.60/1.36", **OD/housing** 48.65, **Total length** 47.00/1.85", **Splines A** 12, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333867

## 333867 Drive

**Servicing:** 1229427, 1231963, 1233234, 1254222, 1351989, 1368970, 1376305, 1385784, 1465115, 1469712, 1469721, 3M5T11000CB

**ID** 12.00, **OD** 35.60, **OD/housing** 45.00, **Total length** 47.00, **Splines A** 12, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 236876

# Drive Parts

## Caps

Pkg. 25

## 139990 Dp Cap

**ID** 43.80, **OD** 45.60

## Rollers

Pkg. 500

## 134300 Dp Rollers

**OD** 6.35, **Length** 12.25

Pkg. 100

## 137816 Dp Rollers

**OD** 6.35, **Length** 10.95



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## Pinion

**231456** Pinion

**Replacing:** SZE888, F4TZ11363A

**Servicing:** F4PU11000AA, F4TZ11002B

**ID** 13.45, **OD** 37.15, **Height** 17.75, **No./splines** 20, **No./teeth** 12

## Washers

Pkg. 5

**234048**# Lever Support

**ID** 21.60, **OD** 42.85, **Thickness** 8.85, **Material** Plastic

## Planet Gears

**235726** Planet Gear

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

**Shaft dia./middle** 11.92, **Total length** 108.10, **No./splines** 12, **Rotation** ACR

**237510** Planet Gear

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1465115, 1469721, 1476606, 1477974, 2T1411000CB, 2T1411000CC, 3M5T11000DB

**Total length** 109.30, **No./splines** 12

**238851** Planet Gear

**Servicing:** 1133994, 1S4U11000AA, 1S4U-11000AB, 98AB11000AD

**Shaft dia./middle** 11.92, **Total length** 108.00, **No./splines** 12, **Rotation** CR

*Brush set: HC-CARGO 142006.*

## Gear Parts

### Gear Shafts

**136637** Gear Shaft

**Replacing:** F0TZ11355H, F0TZ11355A

**Servicing:** 1057652, 3852582, 5029143, 6775703, 6775704, 93BB11000HB, 93BB11000JB, 93BB11000KA, 93BB11000KB, E90F11000AA

**OD/shaft** 19.00,
**Total length** 107.00/4.21", **No./splines** 12

*Armature: HC-CARGO 136634.*

**230743** Gear Shaft

**Replacing:** F7RU11A160AB, F1RU11A160AB

**Servicing:** 97VB11000AA, 97VB11000AB, 98VB11000B1A, 98VB11000B3A, 98VB-11000BA, 98VB11000BBB

**OD/shaft** 17.45, **Total length** 104.30, **No./splines** 12

**231139** Gear Shaft

**Servicing:** F7PU11000BA, F7PZ11002BA

**Total length** 103.50 (4.07"), **No./splines** 12

*Armature: HC-CARGO 231138.*

**231143** Gear Shaft

**Replacing:** F5RZ11A201A

**Servicing:** 1057661, 1076141, 1085273, 1120215, 1140110, 1151641, 1151642, 1197912, 1205240, 1209193, 1214371, 1233277, 1367529

**Total length** 84.70

**237509** Gear Shaft

**Servicing:** 1231963, 1351989, 1385784, 1465115, 1469721, 2T1411000CB, 2T1411000CC, 3M5T-11000DB, 3M5T11000DC, 4424968, 4M5T11000FA

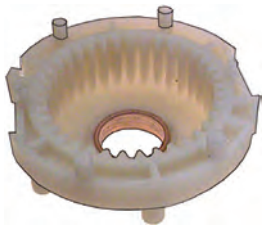
**OD/shaft** 11.90, **Total length** 103.60, **No./splines** 12

**238919** Gear Shaft

**Servicing:** 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 1S7U11000DA, 1S7U11000DB, YC1U11000AB, YC1U11000AC

**OD/shaft** 11.92, **Total length** 103.30, **No./splines** 12

### Outer Gear



**136638** Outer Gear

**Replacing:** SM476, F7RU11165CA, E9O-Z11A165A, E90Z11A165A

**Servicing:** 1057652, 1057654, 1057661, 1058429, 1073093, 1076141, 1085273, 1087280, 1118336, 1126987, 1367529, 1X4U11000AA, 3852582

**ID** 46.87, **OD** 72.35, **Height** 30.40, **No./teeth** 37



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Pkg. 5

**231347** Outer Gear

**Replacing:** F7RU11A165CA, F7RE11A165CA

**Servicing:** 97BB11000BC, 97VB11000AA, 97VB11000AB, 98AB11000AC, 98VB-11000B1A, 98VB11000B3A

**ID** 52.10, **OD** 72.28, **Height** 32.70

*w/o needle bearing: HC-CARGO 140920. w/ bushing: HC-CARGO 234664.*

Pkg. 5

**234664** Outer Gear

**ID** 47.40, **OD** 72.30, **Height** 33.33, **No./teeth** 37

## Gear Covers

Pkg. 5

**234956** Gear Cover

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1469721, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 2S7T11000DA, 3M5T11000DB

## Gear Wheels

Pkg. 10

**136641** Gear Wheel

**Replacing:** E90Z1K190A, E90Z11K190A, E90F11A67AA

**ID** 6.50, **OD** 19.40, **Height** 8.70, **No./teeth** 13

*w/ needle bearing. Version w/bushing: HC-CARGO 231154.*

Pkg. 10

**231154** Gear Wheel

**Replacing:** F0FZ11K190A

**ID** 6.00, **OD** 19.40, **Height** 8.80, **No./teeth** 13

*w/ bushing. Version w/ needle bearing: HC-CARGO 136641.*

Pkg. 10

**235377** Gear Wheel

**Servicing:** 1063999, 1064000, 1067622, 1120214, 1140111, 1140757, 1144505, 1218885, 1350459, 1368974, 1465010, 1477973, 1483817

**ID** 10.00, **OD** 23.50, **No./teeth** 18

Pkg. 10

**235592** Gear Wheel

**Servicing:** 1231963, 1351989, 1376305, 1385784, 1469721, 1S7U11000BA, 3M5T-11000DB, 3M5T11000DC, 4M5T11000FA, 4M5T11000FB

**OD** 57.80, **Height** 11.00, **No./teeth** 37

## Gear Plates

Pkg. 10

**136640** Gear Plate

**Replacing:** E90Z11A167A

**Servicing:** 1057652, 1057654, 1057661, 1058429, 1073093, 1076141, 1085273, 1087280, 1118336, 1126987, 1231963, 1351989, 1367529

**ID** 18.30, **OD** 67.30, **Thickness** 1.15

## Various

Pkg. 5

**230896** Gasket

**Servicing:** 1551240, 97VB11000AC, 97VB11000BC

**ID** 51.45, **OD** 62.70, **Thickness** 0.65

Pkg. 5

**231146** Retainer

**Servicing:** 1057654, 1057661, 1067622, 1076141, 1085273, 1087280, 1120214, 1140111, 1140757, 1144505, 1218885, 1350459, 1367529

**ID/housing** 13.80, **OD/housing** 16.00, **Thickness** 1.25

*Shaft: HC-CARGO 136637.*

Pkg. 5

**231147** Retainer

**Servicing:** 1057652, 1063999, 1064000, 1231963, 1351989, 1376305, 1385784, 1469721, 3M5T11000DB, 3M5T11000DC, 4M5T11000FA

**Thickness** 1.00, **Material** Steel

*Shaft: HC-CARGO 231139.*

Pkg. 5

**231150** Washer

**ID** 19.00, **OD** 36.50, **Thickness** 0.25, **Material** Steel



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## 231377 Gear

**Replacing:** F5RZ11A198A

**Servicing:** 1057661, 1076141, 1085273, 1151642, 1197912, 1205240, 1209193, 1233277, 1367529, 1386127, 1388569, 1X4U11000AA

**ID** 22.00, **OD** 51.64/2.033", **Height** 51.64/2.033", **No./teeth** 22

## 234504 Gear

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1551240, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

**ID** 14.30, **OD** 54.30, **Height** 46.20, **No./splines** 19, **No./teeth** 19

*w/ bushing.*

## 234957 Washer

**ID** 22.50, **OD** 43.00, **Thickness** 2.60, **Material** Nylon

# Levers

Pkg. 5

## 132808 Lever

**Replacing:** 84AB11067AB

**Servicing:** 0018882, 1007765, 1008795, 1008836, 1008838, 1011330, 1011331, 1018882, 1018883, 1030151, 1032666, 1059564, 1072156

**Dist.** 41.40, **Length** 86.50

**Alternative no.:** 333537 5★

## 135468 Lever

**Replacing:** F4XY11067A

**Servicing:** F32Z11002B

**Dist.** 36.30, **Length** 74.00

## 135777 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 82GB11037AB

**Servicing:** 1061267, 1229425, 82GB11000CA, 82GB11000EA, 83BB11000DA, 85GB11000FA, 86AB11000BA, 86BB11000EA, 86GB11000AA

**Dist.** 40.35, **Length** 92.70

Pkg. 5

## 136636 Lever

**Replacing:** F75U11070AA, E90Z11067A

**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061272, 1061458, 1063999, 1064000, 1067622, 1073093

**Dist.** 44.50, **Length** 84.35

## 234680 Lever

**Servicing:** 2S7T11000DA, YC1U11000AC, YC1U11000AD, YC1U11000AE

**Dist.** 35.35, **Length** 62.40

## 333537 5★ Lever

**Manufacturer:** Bosch

**Replacing:** 84AB11067AB

**Dist.** 43.80, **Length** 89.80

**Alternative no.:** 132808

# Lever Parts

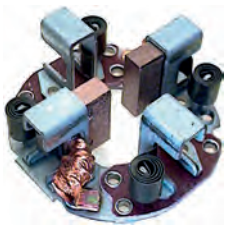
## Various

Pkg. 10

## 232856 Lever Support

**ID** 21.50, **OD** 42.80, **Thickness** 11.30, **Material** Plastic

# Brush Gears



## 133338 Brush Gear

**Replacing:** E5TZ11049A

**OD** 71.50

*Neg. brushes. Brush set: HC-CARGO 140388.*

## 133339 Brush Gear

**Replacing:** SBE324, E5PF11434AA, E5P-F11061A

**Servicing:** E8TF11000AA, F3TU11000AA

12 **V**, **OD** 75.75

*Brush set: HC-CARGO 140388. Brush spring: HC-CARGO 135201.*



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#Available while stock last, * Program development.

**135467** Brush Gear

**Replacing:** SBE345, SBE334, SBE325, F4BZ11061A, E7GZ11061A

12 **V**, **OD** 74.00

*Neg. brushes. Brush set: HC-CARGO 140349.*

**136635** Brush Gear

**Replacing:** SB356, SB353, SB348, SB337, SB335, SB331, F3RZ11061A, E9OZ11061C, E9OZ11061B, E9OZ11061A

**Servicing:** 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 3852582, 4X4U-11000AB, 4X4U11000AC

**OD** 68.40

**230741** Brush Gear

**Replacing:** F7RU11434BA

**Servicing:** 1024508, 1027928, 1058429, 1059179, 1073093, 1073108, 1093471, 1105310, 1118336, 1120215, 1126987, 1133994, 1140110

12 **V**, **OD** 72.25

*Brush set: HC-CARGO 140955.*

**Alternative no.:** 333651

**231460** Brush Gear

**Replacing:** SBE351, F4TZ11091A, F4T-Z11061A

12 **V**, **OD** 69.80

*Neg. brushes. Brush set: HC-CARGO 140388.*

**232670** Brush Gear

**Replacing:** F81U11434AA

**Servicing:** F81Z11002AA, XL1Z11002AA, XW4U11000CG, XW4Z11000CG, XW4Z11002CG

**OD** 72.60

**233406** Brush Gear

**Servicing:** 1057654, 1087280, 3852582, 5029143, 6775704, 93BB11000JB, 93BB11000JC, F07U11000BA, F0TZ11002B, R93BB11000JB

**OD** 19.40

**234062** Brush Gear

**Servicing:** 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1140757, 1144505, 1151216, 1151642, 1197912, 1205240

12 **V**, **OD** 60.80

*Brush set: HC-CARGO 140975.*

## Brush Gear Parts

### Brush Springs

Pkg. 10

**132741** Brush Spring

**Replacing:** D1AZ11059A

**Servicing:** 4½" DD, C7AF11001B, D5A-F11001AB

**OD** 15.65, **Length** 30.80

Pkg. 10

**132742** Brush Spring

**Replacing:** MS519, D8AF11059A, D7AZ11059A

**Servicing:** 4", 4½" DD

**Length** 30.50

Pkg. 4

**137526** Brush Spring

**Servicing:** 1061272, 4X4U11000AC, 7041784, 98AB11000EC

**Length** 18.50

### Various

Pkg. 10

**231141** Screw

**Servicing:** 1061272, 1477974, 1S4U11000AB, 4X4U11000AC, 7041784, 97BB11000B3D, 98AB11000EC

**Thread** M5, **Total length** 14.50

Pkg. 5

**233407**# Insulator

**Servicing:** 1061272, 98AB11000EC



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#Available while stock last, * Program development.

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## Brush Sets

### 140509 Brush Set

**Servicing:** M80R, 5026489, 89AB11000BA, 89BB11000CA, 91AB11000GA, 91BB11000MA, 91BX11000MA, F91BB11000MA

12 **V**, **Length** 19.80, **Lead length** 33.50, **Height** 9.40, **Thickness** 6.80

*w/o brush bar: HC-CARGO 140765.*

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### 140548 Brush Set

**Replacing:** E4FF11055AA, D8AF11056AA, D8AF11055BA, D7AZ11057A

**Servicing:** D80F11001AA, E1AF11001BA

12 **V**, **Length** 13.00, **Lead length** 76.00, **Lead length 2** 38.50, **Height** 19.20, **Thickness** 8.80

---

### 140845 Brush Set

**Servicing:** 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U-11000AA, 3852582, 4X4U11000AB, 4X4U11000AC

12 **V**, **Length** 14.00, **Lead length** 82.00, **Lead length 2** 34.50, **Height** 16.00, **Thickness** 4.60

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### 140955 Brush Set

**Replacing:** F7RU11056AB, 140955

**Servicing:** 1024508, 1027928, 1059179, 1073108, 1093471, 1105310, 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 1480550

12 **V**, **Length** 18.20, **Lead length** 34.00, **Height** 19.00, **Thickness** 8.40

*w/ brush bar: HC-CARGO FX74-78 3.*

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### 140975 Brush Set

**Servicing:** 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1140757, 1144505, 1151216, 1151642, 1197912, 1205240

12 **V**, **Length** 14.00, **Lead length** 26.00, **Height** 13.00, **Thickness** 6.00

**Alternative no.:** B140975

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### 141186 Brush Set

12 **V**, **Length** 14.00, **Lead length** 34.50, **Lead length 2** 30.00/33.00, **Height** 16.00, **Thickness** 4.50

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### 141187 Brush Set

**Servicing:** E90F11000AA, E90F11000BA

12 **V**, **Length** 14.00, **Lead length** 33.50, **Lead length 2** 79.50, **Height** 16.00, **Thickness** 4.60

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### 141188 Brush Set

12 **V**, **Length** 14.00, **Lead length** 35.00, **Lead length 2** 85.00, **Height** 16.00, **Thickness** 4.60

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### 141248 Brush Set

**Servicing:** 1063999, 1064000, 98AB11000BB, 98AB11000BC, 98AB11000BD, 98AB11000CC, 98AB11000CD, YS4U11000BB

12 **V**, **Length** 12.50, **Lead length** 100.00, **Lead length 2** 25.00, **Height** 13.00, **Thickness** 6.00

---

### 142348 Brush Set

**Servicing:** 1551240

**Length** 18.00, **Lead length** 33.00, **Height** 19.20, **Thickness** 8.40

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### FX412/1P Brush Set

**Replacing:** C5AF11055A, C0DZ11057B, C0DZ11057A, 1811057, 1811056

**Servicing:** C7AF11001B, D5AF11001AB

12 **V**, **Length** 13.00, **Lead length** 51.75, **Height** 19.20, **Thickness** 8.80

---

### FX76-774 Brush Set

**Replacing:** 1C3U11056BA, 1C3U11056AA

12 **V**, **Length** 18.20, **Lead length** 53.00, **Lead length 2** 34.00, **Height** 18.90, **Thickness** 8.20

---



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## Brushes

Pkg. 100

**B140975** Brush

**Replacing:** B140975

**Servicing:** 1120214, 1140111, 1140757, 1144505, 1218885, 1345314, 1465010, 1525795, 1535628, 3S4T11000AC, 4542546, 98AB11000CB

12 **V**, **Length** 14.00, **Lead length** 26.00, **Height** 13.00, **Thickness** 6.00

**Alternative no.:** 140975

## Bushings

Pkg. 5

**140188** Bushing

**Replacing:** MC3, MC244, MC220, D3AZ11052A, D0AF11052A, C4TZ11052A

**Servicing:** D5AF11001AB

**ID** 15.96, **OD** 19.11, **Length** 11.90

Pkg. 5

**140189** Bushing

**Replacing:** MC12, C0DZ11135A

**Servicing:** C7AF11001B

**ID** 12.05, **OD** 13.18, **Length** 18.40

Pkg. 5

**140192** Bushing

**Replacing:** MC209, MC206, D0AZ11135A

**ID** 12.00, **OD** 15.10, **Length** 10.50

Pkg. 5

**140193** Bushing

**Replacing:** MC93, C2DH11052A, C2DF11052A

**ID** 15.90, **OD** 17.50, **Length** 14.20

Pkg. 10

**140264** Bushing

**Replacing:** B11052

**ID** 16.27, **OD** 19.15, **Length** 15.00

**Alternative no.:** B140264

Pkg. 10

**140467** Bushing

**Replacing:** C2DF11135A

**ID** 12.01, **OD** 13.11, **Length** 15.60

Pkg. 5

**140553** Bushing

**Servicing:** C7AF11001B, D80F11001AA, E1AF11001BA

**ID** 15.90, **OD** 19.10, **Length** 15.20

Pkg. 10

**140555** Bushing

**Replacing:** MCE439

**Servicing:** F32Z11002B

**ID** 10.03, **OD** 14.00, **Length** 12.50

**Alternative no.:** B140555

Pkg. 10

**140758** Bushing

**Replacing:** MCE444, F0JY11135A

**ID** 19.06, **OD** 22.55, **Length** 14.00

**Alternative no.:** B140758

Pkg. 10

**140842** Bushing

**Replacing:** MC442, E90Z11135A

**Servicing:** 1057652, 1058429, 1073093, 1118336, 1126987, 1231963, 1351989, 1376305, 1385784, 1469721, 3852582, 3M5T11000DB

**ID** 10.07, **OD** 13.97, **Length** 10.00

Pkg. 10

**140843** Bushing

**Servicing:** 1057652, 1057654, 1057661, 1058429, 1061458, 1063999, 1064000, 1067622, 1073093, 1076141, 1085273, 1087280, 1104965

**ID** 19.00, **OD** 22.30, **Length** 6.30

Pkg. 10

**140844** Bushing

**Replacing:** MC209A, D0AF11135B

**Servicing:** 1057652, 1057654, 1057661, 1061272, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 3852582, 4X4U-11000AB, 4X4U11000AC

**ID** 12.04, **OD** 15.13, **Length** 10.20



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Pkg. 10

## 140987 Bushing

**Servicing:** 1058429, 1073093, 1118336, 1126987, 1133994, 1231963, 1351989, 1376305, 1385784, 1387092, 1465115, 1469721, 1476606

**ID** 8.12, **OD** 12.45, **Length** 10.00

**Alternative no.:** B140987

Pkg. 10

## 140991 Bushing

**Servicing:** 1061458, 1063999, 1064000, 1067622, 1104965, 1120214, 1140111, 1151216, 1151642, 1205240, 1218885, 1229427, 1233234

**ID** 7.06, **OD** 11.99, **Length** 10.00

**Alternative no.:** B140991

Pkg. 10

## 141074 Bushing

**Servicing:** 1057654, 1057661, 1076141, 1085273, 1087280, 1367529, 1X4U11000AA, 4X4U11000AB, 93BB11000HC, 93BB11000JC, 93BB11000KC

**ID** 10.00, **OD** 13.95, **Length** 8.55

Pkg. 10

## 141075 Bushing

**Replacing:** MC445, F2TZ11135A

**Servicing:** 1067622, 96FB11000MA, 96FB11000MB, 96FB11000MC, 96FB11000MD, 96FB11000ME, E98F11000AA, E98F11000BA, E9SF11000AA

**ID** 12.00, **OD** 16.00, **Length** 10.05

Pkg. 10

## 141076 Bushing

**Servicing:** 1057661, 1076141, 1085273, 1197912, 1209193, 1233277, 1367529, 1386127, 1X4U11000AA, 3S7T11000AA, 3S7T11000AB

**ID** 14.35, **OD** 17.26, **Length** 12.50

Pkg. 10

## 141129 Bushing

**Replacing:** B9AF11135A, B9AF-11135-A

**ID** 15.95, **OD** 20.68, **Length** 17.30

Pkg. 10

## 141222 Bushing

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1449615, 1450653, 1541002, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC

**ID** 14.43, **OD** 17.31, **Length** 13.20

Pkg. 10

## 142014 Bushing

**Servicing:** 1140757, 1144505, 1197912, 1209193, 1233277, 1237323, 1345314, 1350459, 1368974, 1386127, 1477973, 1483817, 2S6U11000EA

**ID** 7.00, **OD** 11.95, **Length** 8.50

Pkg. 10

## 142084 Bushing

**Servicing:** 1120215, 1140110, 1151641, 1214371, 1387062, 1450653, 1S7U11000BA, 1S7U11000BB, 1S7U11000BC, 2S7T11000DA, 2S7T11000DB

**ID** 14.31, **OD** 19.10, **Length** 12.50

Pkg. 10

## 332864 Bushing

**Servicing:** 1542468

**ID** 12.08, **OD** 15.55, **Length** 5.50

*Mandrel YAAT00013 has to be used.*

Pkg. 100

## B140987 Bushing

**Replacing:** 140987

**Servicing:** 1477974, 1S4U11000AB, 6G9N11000GB

**ID** 8.12, **OD** 12.45, **Length** 10.00

**Alternative no.:** 140987

Pkg. 100

## B140991 Bushing

**Replacing:** 140991

**Servicing:** 3S4T11000AB, 3S4T11000AC, 4542546

**ID** 7.06, **OD** 11.99, **Length** 10.00

**Alternative no.:** 140991



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#Available while stock last, * Program development.

## Bearings

### Needle Bearings

Pkg. 10

**140242** 5★ Needle Bearing
**Replacing:** MC189A, E4FZ11135A, D6AZ11135A, D6AF11448AA, C6VY11135A, C6VF11135A
**Servicing:** PMGR SERIES, M78, M79, 1027772, 1057652, 1057654, 1057661, 1058429, 1061267, 1061272, 1073093, 1076141, 1085273
**ID** 12.00, **OD** 16.00, **Height** 10.00

Pkg. 10

**140620** 5★ Needle Bearing
**Replacing:** E90F11448BA
**Servicing:** 1008838, 1011331, 1018883, 1030151, 1057652, 1057654, 1057661, 1063999, 1064000, 1067622, 1076141, 1085273, 1087280
**ID** 6.00, **OD** 10.00, **Height** 8.00, **Lock ring** w/o, **Oil seals** w/o, **Teflon ring** w/o

Pkg. 5

**140920** 5★ Needle Bearing
**Servicing:** F8RU11000AA
**ID** 17.46, **OD** 22.23, **Height** 9.40

Pkg. 10

**141209** 5★ Needle Bearing
**Servicing:** 1120215, 1140110, 1151641, 1197912, 1209193, 1214371, 1233277, 1386127, 1387062, 1449615, 1450653, 1541002, 1S7U11000BA
**ID** 14.29 (9/16"), **OD** 19.05 (3/4"), **Height** 12.70 (1/2")

## Repair Kits

**136250** Repair Kit
**Replacing:** F1DU10576A

## Sundry Parts

### Thru Bolts

Pkg. 10

**230795** Through Bolt
**Replacing:** N807790S36B
**Total length** 5.00 (7/8"), **Length/rear collar** 149.20, **Thread length** 15.00/16", **Thread size** 10-24 UNC

Pkg. 2

**231144** Through Bolt
**Servicing:** 1057661, 1076141, 1085273, 1367529, 1X4U11000AA, 4X4U11000AB, 4X4U11000AC, 7041784, 93BB11000KA, 93BB11000KB
**Total length** 141.30, **Thread size** M6, **Thread size/rear** M5

### Various

Pkg. 10

**135574** Steel Ball
**Replacing:** MCE443, E90Z11A172A
**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061458, 1063999, 1064000, 1067622, 1073093, 1073108
**OD** 6.35, **Material** Steel

Pkg. 10

**136639** Rubber Seal
**Servicing:** 1551240, 1S4U11000AB, 4X4U11000AC, 7041784, 97BB11000B3D, YS4U11000AD

Pkg. 10

**137527** Retainer
**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061458, 1063999, 1064000, 1067622, 1073093, 1073108
**ID/housing** 12.00, **OD/housing** 17.80, **Thickness** 3.40, **Material** Steel

Pkg. 10

**137528** Stop Collar
**Servicing:** 1024508, 1027928, 1057652, 1057654, 1057661, 1058429, 1059179, 1061272, 1061458, 1063999, 1064000, 1067622, 1073093
**ID** 10.50, **OD** 15.60, **Height** 2.70

Pkg. 10

**139648#** Spacer
**Replacing:** E4TZ11N004A
**ID** 6.70, **OD** 12.60, **Height** 12.80



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Pkg. 5

**231149** Tension Pin

**Servicing:** 1551240, 3S7T11000AC, 3S7T11000AD, 4X4U11000AC, 7041784

**OD** 3.97, **Length** 22.22

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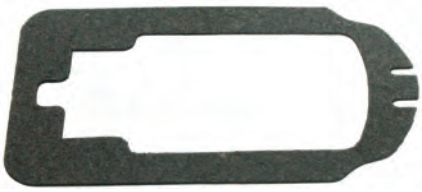

**232945**# Gasket

**Replacing:** SZ592, C2DF11065A, C2DF-11065-A

**Length** 138.30, **Thickness** 1.60, **Width** 80.75,

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Pkg. 5

**233010** Stop Collar

**Replacing:** C5AZ10A355A

**Servicing:** 30MT, 35MT

*Used w/ retaining ring: HC-CARGO 233009.*

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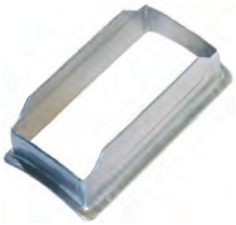

**233036**# Retaining Sleeve

**Replacing:** C0DF11105A, C0DF-11105-A

**Servicing:** C7AF11001B, D80F11001AA

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Pkg. 10

**233408** Screw

**Replacing:** 387448-S100, 383338-S2

**Servicing:** 5MT, 10MT, D80F11001AA, E1AF11001BA

**Thread** 10.32, **Total length** 41.00/64", **Thread length** 1/2", **Head type** Hex washer *w/ lock.*

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Pkg. 10

**236907** Gasket

**Servicing:** 1120214, 1120215, 1140110, 1140111, 1151641, 1214371, 1218885, 1387062, 1449615, 1450653, 1465010, 1541002, 1551240

**Thickness** 4.90

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Pkg. 10

**239804** Gasket

**Replacing:** 1SU11000AD, 1SU11000AC

**Servicing:** 1120214, 1140111, 1218885, 1251700, 1300504, 1325943, 1366473, 1366986, 1379702, 1465010, 1477482, 1478129, 1525794

**Thickness** 5.00, **Material** Rubber

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O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## Bushings

Pkg. 10

**141141** Bushing

**ID** 20.50, **OD** 26.55, **Length** 11.90



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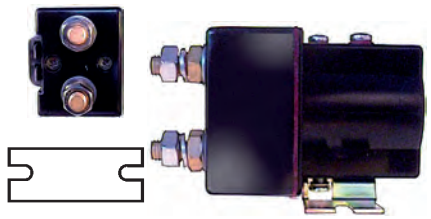
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Solenoids

### 24 V



**138685** Solenoid

**Replacing:** SW80-753PEE

24 **V**, 100 **Amp**, **B+** M8,
**Total length** 93.80, **Height/B+** 20.25,
**Coil bolt** M8, **Coil bolt 2** 20.10,
**No./terminals** 4
*Silver contact.*



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## Armatures

### 12 V

**132454** Armature

**Replacing:** 2114-91008, 2114-71108, 2114-71104, 2114-71005, 2114-31009

**Servicing:** S114-242, S114-254B, S114-254D, S114-255A, S114-257, S114-257G, S114-257H, S114-264, S114-268, S114-293, S114-338

12 **V**, 1.4 **kW**, **Shaft length** 167.20, **Core thickness** 52.90, **No./teeth** 11, **Rotation** CR/ACR

**132456** Armature

**Replacing:** 2130-31002, 2130-1101

**Servicing:** S13-101, S13-105, S13-105A, S13-129, S13-529, S13-66, S13-66A, S13-69, S13-81

12 **V**, 2 **kW**, **Shaft length** 174.15, **Core thickness** 52.70, **No./teeth** 11, **Rotation** CR/ACR

**132457** Armature

**Replacing:** 2130-7100, 2130-3100

**Servicing:** S13-06, S13-06A, S13-14, S13-15, S13-18, S13-24, S13-25, S13-27, S13-27A, S13-28, S13-31, S13-32, S13-32A, S13-55

12 **V**, 2.2 **kW**, **Shaft length** 300.00, **Core thickness** 74.50, **No./splines** 12, **Rotation** CR

**132798** Armature

**Replacing:** 2130-91002, 2130-61003, 2130-51003, 2130-51002, 2130-4102, 2130-41004, 2130-31003, 2130-21003

**Servicing:** S13-100, S13-102, S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-109, S13-109B, S13-111, S13-112, S13-113

12 **V**, 2.5 **kW**, **Shaft length** 188.00, **Core thickness** 52.70, **No./teeth** 11, **Rotation** CR/ACR

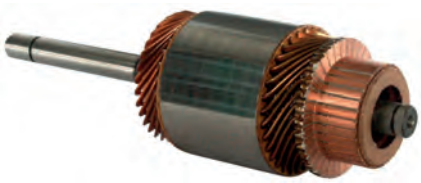
**Alternative no.:** F032132798

**133031** Armature

**Replacing:** 2114-91001

**Servicing:** S114-146, S114-180, S114-180B, S114-180E, S114-180F, S114-180G, S114-218, S114-218A, S114-219, S114-230, S114-230A

12 **V**, 1.2/1.3 **kW**, **Shaft length** 205.70, **Core thickness** 64.90, **No./splines** 10, **Rotation** CR



**133849** Armature

**Replacing:** 2114-71103

**Servicing:** S114-387, S114-396, S114-412, S114-614

12 **V**, 0.8 **kW**, **Shaft length** 207.00, **Core thickness** 60.00, **No./splines** 10, **Rotation** CR

**134121** Armature

**Replacing:** 2114-91104, 2114-61106, 2114-61005, 2114-51106, 2114-51007

**Servicing:** S114-252F, S114-253B, S114-256B, S114-258C, S114-290, S114-290A, S114-290B, S114-296A, S114-322, S114-322A, S114-344

12 **V**, 1.2 **kW**, **Shaft length** 159.10, **Core thickness** 52.90, **No./teeth** 11, **Rotation** CR/ACR

**135093**# Armature

**Replacing:** 2114-81001

**Servicing:** S114-140, S114-141, S114-156, S114-160, S114-163, S114-163B, S114-163F, S114-208, S114-208B

12 **V**, 0.8 **kW**, **Shaft length** 234.68, **Core thickness** 52.40, **No./splines** 10, **Rotation** CR

**135649** Armature

**Replacing:** 2114-61103

**Servicing:** S114-385, S114-629, S114-629A

12 **V**, 1 **kW**, **Shaft length** 207.00, **Core thickness** 64.90, **No./splines** 10, **Rotation** CR

**136248** Armature

**Replacing:** 2130-41003

**Servicing:** S13-107, S13-107A, S14-02, S14-100D, S14-100E

12 **V**, 2.5 **kW**, **Shaft length** 196.15, **Core thickness** 52.65, **No./teeth** 11

**137092** Armature

**Replacing:** 2130-31004, 2130-11001

**Servicing:** S13-123, S13-33, S13-33A, S13-33B, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-41B, S13-41C, S13-45A

12 **V**, 2.5 **kW**, **Shaft length** 165.00, **Core thickness** 60.00, **No./teeth** 11, **Rotation** CR/ACR



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#Available while stock last, * Program development.

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## 137120 Armature

**Replacing:** 2114-61300, 2114-41100, 2114-4100

**Servicing:** S114-850, S114-850A, S114-850B, S114-850C, S114-851, S114-851A

12 **V**, 1.4 **kW**, **Shaft length** 144.80, **Core thickness** 50.60, **No./teeth** 9

## 137337# Armature

**Replacing:** 2114-11006

**Servicing:** S114-232, S114-232A

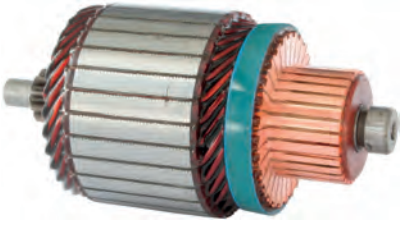
12 **V**, 1.2 **kW**, **Shaft length** 229.45, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR

## 137948 Armature

**Replacing:** 2114-51300, 2114-21111, 2114-11111

**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E, S114-802A, S114-804

12 **V**, 1.4 **kW**, **Shaft length** 111.25, **Core thickness** 50.85, **No./teeth** 8, **Rotation** CR/ACR



## 138701 Armature

**Replacing:** 2114-31109, 2114-21100

**Servicing:** S114-505A, S114-750, S114-753, S114-753C, S114-754A, S114-755, S114-762, S114-762A, S114-762B, S114-766, S114-766A

12 **V**, 1.4 **kW**, **Shaft length** 109.85, **Core thickness** 55.45, **No./teeth** 10, **Rotation** ACR

## 138959 Armature

**Replacing:** 2114-71001, 2114-51005

**Servicing:** S114-152, S114-155, S114-160A, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G, S114-160H, S114-161, S114-161B

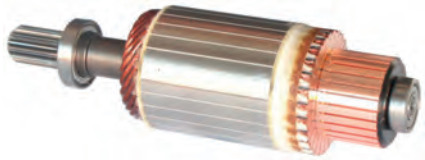
12 **V**, 0.8/1 **kW**, **Shaft length** 214.50, **Core thickness** 52.65, **No./splines** 10

## 230201 Armature

**Replacing:** 2114-11100

**Servicing:** S114-651, S114-651A, S114-680

12 **V**, 0.8 **kW**, **Shaft length** 186.55, **Core thickness** 57.85, **No./splines** 10, **Rotation** ACR



## 233886 Armature

**Replacing:** 2130-81004, 2130-61004

**Servicing:** S13-112A, S13-114A, S13-200, S13-203, S13-204, S13-205, S13-205A, S13-205C, S13-205D, S13-205E, S13-205F, S13-207

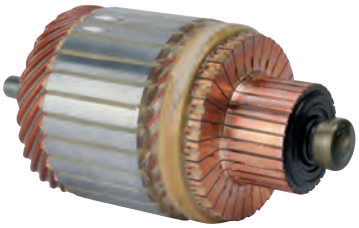
12 **V**, 2.3 **kW**, **Shaft length** 181.00, **Core thickness** 52.70, **No./teeth** 11, **Rotation** CR

## 234797 Armature

**Replacing:** 2114-51004, 2114-11109

**Servicing:** S114-207, S114-370, S114-370A

12 **V**, 1.2 **kW**, **Shaft length** 245.25, **Core thickness** 65.00, **No./splines** 10, **Rotation** CR



## 235337 Armature

**Replacing:** 2114-31200

**Servicing:** S114-870, S114-871, S114-872, S114-874, S114-876, S114-876A, S114-878A, S114-878B, S114-883, S114-884, S114-890

12 **V**, 1.7 **kW**, **Shaft length** 111.00, **Core thickness** 55.10, **No./teeth** 8, **Rotation** CR

**Alternative no.:** F032235337

## 235632 Armature

**Replacing:** GSB107-1100

**Servicing:** GSB107-01, GSB107-01A, GSB107-04A, GSB107-04C, GSB107-06, GSB107-06E, GSB107-06F

12 **V**, **Shaft length** 224.00, **Core thickness** 67.16

*22 A.*

## 330156 Armature

**Replacing:** 2114-71300

**Servicing:** S114-901, S114-901A, S114-901B, S114-902, S114-902A, S114-902B, S114-902C, S114-902E, S114-922A, S114-943A, S114-947

12 **V**, 1 **kW**, **Shaft length** 103.05, **Core thickness** 50.62, **No./teeth** 8

## 333061 Armature

12 **V**, **Shaft length** 174.00, **Core thickness** 52.70, **No./splines** 11, **Rotation** CR



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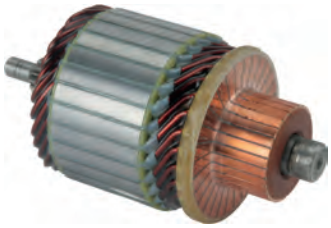
#Available while stock last, * Program development.



**333778** Armature

12 **V**, **Shaft length** 111.00, **Core thickness** 55.10, **No./teeth** 8

### 24 V

**133056** Armature

**Replacing:** 2270-3100, 2250-71002, 2250-21001

**Servicing:** S25-110F, S25-110G, S25-110K, S25-110L, S25-110M, S25-115, S25-115A, S25-125A, S25-125B, S25-135A, S25-137B, S25-142

24 **V**, 3.5 **kW**, **Shaft length** 165.00, **Core thickness** 60.00, **No./splines** 11, **Rotation** CR/ACR

**136189** Armature

**Replacing:** 2310-31001, 2210-31001

**Servicing:** S210-108, S210-90, S210-92

24 **V**, 5.5 **kW**, **Shaft length** 240.00, **Core thickness** 74.50, **No./teeth** 12, **Rotation** CR/ACR

**138830** Armature

**Replacing:** 2240-2100

**Servicing:** S24-01C, S24-01D, S24-03A, S24-03B, S24-03C, S24-05A, S24-05B, S24-07, S24-08, S24-08A, S24-10, S24-11, S24-12, S24-13

24 **V**, 3/3.2/3.5 **kW**, **Shaft length** 196.00, **Core thickness** 52.70, **No./teeth** 11, **Rotation** CR

**333059** Armature

**Replacing:** 2240-3100

**Servicing:** S25-161, S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167

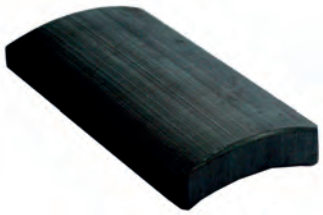
24 **V**, **Shaft length** 196.00, **Core thickness** 52.70, **No./teeth** 11,

## Yokes

### Yoke Parts

### Magnets

Pkg. 10



**232997** Magnet

**Servicing:** S114-419A

**Length** 65.00, **Height** 8.60, **Width** 32.80,

## Yokes w/ magnets

### 12 V

**138505** Yoke

**Replacing:** 2114-72507, 2114-52100

**Servicing:** S114-800, S114-800A, S114-800B, S114-802A, S114-804, S114-804A, S114-805, S114-805A, S114-806, S114-806A, S114-808

12 **V**, 1.4 **kW**, **OD/middle** 67.85, **Length** 60.55, **Brush gear** w/o, **Magnets** w/

**139788** Yoke

**Replacing:** 2114-82507

**Servicing:** S114-801A, S114-801B, S114-801C, S114-801D, S114-844, S114-844A, S114-850, S114-850A, S114-850B, S114-850C

12 **V**, 1.4 **kW**, **OD/middle** 67.90, **Length** 60.60, **Rotation** ACR, **Brush gear** w/o, **Magnets** w/

## Field Cases

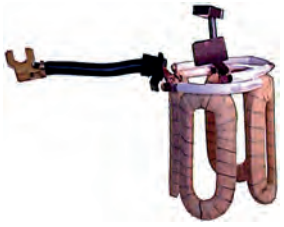
**231489** Field Case

**Servicing:** S24-01B, S24-01C, S24-01D, S24-03A, S24-03B, S24-03C, S24-05A, S24-05B, S24-07, S24-08, S24-08A, S24-11, S24-12, S24-13

**OD/middle** 80.20, **Length** 92.20, **Brush gear** w/o

## Field Coils

### 12 V



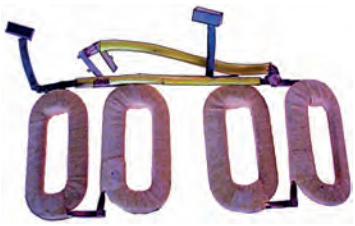
**135101** Field Coil

**Replacing:** 2130-92102, 2130-9210, 2130-82101, 2130-22102, 2130-12001

**Servicing:** S13-100, S13-102, S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-109, S13-109B, S13-111, S13-112, S13-112A

12 **V**, 2 **kW**, **Height** 92.00, **Internal height** 57.00, **Inner width** 16.75

*Brush set: HC-CARGO 140567.*



**135874** Field Coil

**Servicing:** S114-257, S114-257G, S114-481, S114-481A, S114-483, S114-483A

12 **V**, 1.4 **kW**, **Height** 73.85, **Width** 179.70, **Internal height** 46.80, **Inner width** 14.45

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**139176** Field Coil

**Replacing:** 2130-62102

**Servicing:** S13-207, S13-207A, S13-207C, S13-212, S13-289, S13-289A, S13-294, S14-203

12 **V**, 170 **Amp**, 2 **kW**, **Height** 90.92, **Internal height** 56.70, **Inner width** 17.30, **Rotation** CR

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**231167**# Field Coil

**Replacing:** 2130-22001

**Servicing:** S13-107, S13-107A, S14-02, S14-03

12 **V**, 2.5 **kW**, **Height** 93.00, **Internal height** 55.90, **Inner width** 16.80

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**234099** Field Coil

**Replacing:** 2130-8220, 2130-42101

**Servicing:** S13-33, S13-33A, S13-33B, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-41B, S13-45A, S13-45B, S13-46A

12 **V**, 1.8/2.5 **kW**, **Height** 90.00, **Internal height** 58.45, **Inner width** 21.00

---

## 24 V

**134346** Field Coil

**Replacing:** 2250-92001, 2250-8205, 2250-82002, 2250-7210, 2250-72002, 2250-62002, 2250-5210, 2250-52002

**Servicing:** S24-64B, S24-64E, S25-110F, S25-110G, S25-110K, S25-110L, S25-110M, S25-125A, S25-125B, S25-128, S25-137B, S25-142

24 **V**, 3.5 **kW**, **Height** 82.55, **Width** 210.40, **Internal height** 56.70, **Inner width** 19.40

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## C.E. Brackets

**137836** C.E. Bracket

**Replacing:** 2130-73014, 2130-43015

**Servicing:** S13-102, S13-105, S13-105A, S13-106A, S13-106B, S13-106C, S13-106E, S13-121, S13-122, S13-126, S13-126A, S13-127

**ID** 76.50

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**137936** C.E. Bracket

**Replacing:** 2130-7300

**Servicing:** S12-52, S13-06A, S13-14, S13-18, S13-27, S13-27A, S13-28, S25-131, S25-131A, S25-155C, S25-155D, S25-74A

**ID** 108.80

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**230487** C.E. Bracket

**Replacing:** 2114-33504, 2114-33502

**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-802A, S114-804, S114-804A, S114-805, S114-805A, S114-806, S114-806A

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**230636** C.E. Bracket

**Replacing:** 2130-63015

**Servicing:** S13-106E, S13-112A, S13-114A, S13-127C, S13-200, S13-203, S13-204, S13-205, S13-205A, S13-205C, S13-205D, S13-205E

**ID** 76.00

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**231106** C.E. Bracket

**Replacing:** 2114-83003

**Servicing:** S114-252F, S114-253B, S114-254B, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C, S114-264

**ID** 75.50

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**234637** C.E. Bracket

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D, S114-829QA, S114-869, S114-901, S114-901A, S114-901B, S114-902

**ID** 65.50

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**235750**# C.E. Bracket

**Servicing:** S114-829A, S114-829B

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## D.E. Brackets

**138613** D.E. Bracket
**Replacing:** 2130-46005
**Servicing:** S13-104, S13-92A

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**230665**# D.E. Bracket
**Replacing:** 2130-56100
**Servicing:** S13-203, S13-305, S13-305A

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**231852** D.E. Bracket
**Replacing:** 2144-66500, 2114-66500, 2114-26300
**Servicing:** S114-850, S114-850A, S114-850B, S114-850C

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**234479** D.E. Bracket
**Replacing:** 2130-46102, 2130-26007, 2130-16008
**Servicing:** S13-122, S13-126, S13-126A

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**234636** D.E. Bracket
**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D

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**235456** D.E. Bracket
**Replacing:** 2130-96101
**Servicing:** S13-122, S13-322, S13-322A, S13-326

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**235658** D.E. Bracket
**Replacing:** 2130-26100
**Servicing:** S13-207, S13-207A, S13-207C, S13-289, S13-289A, S13-89, S13-89A, S13-89B, S13-89C, S13-89D

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## I.M. Brackets

**137459**# I.M. Bracket
**Replacing:** 2250-34001
**Servicing:** S13-33A, S13-33B, S13-38A, S13-38B, S13-45A, S13-45B, S25-110G, S25-110K, S25-110M, S25-156, S25-164A
**ID** 88.00

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**231302**# I.M. Bracket
**Replacing:** 2120-3400, 2120-1450
**Servicing:** S12-18, S12-19, S12-19C, S12-19K, S12-43, S12-63, S12-63A, S12-63B, S12-63C, S12-68, S12-68B, S12-68D, S12-77A
**ID** 25.00

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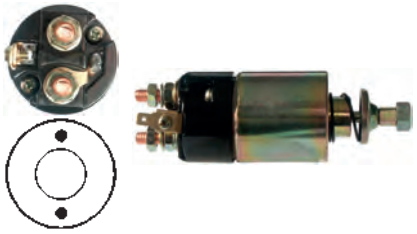
## Solenoids

### 12 V



**130811** Solenoid
**Replacing:** 2120M-8700Y, 2120M-5700Y, 211N-4700Y, 2114N-4700Y, 2114N-47004, 2114N-4700, 2114N-1750, 2114M-4700Y
**Servicing:** S114-131, S114-152, S114-155, S114-156A, S114-91, S12-19, S12-19K, S12-41A, S12-59
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.90, **OD/cover** 49.65, **Total length** 143.50, **Height/B+** 16.45, **Width/kl. 50** 11.40, **Coil bolt** M8, **Coil bolt 2** 16.50, **No./terminals** 3
*Cap: HC-CARGO 134619.*

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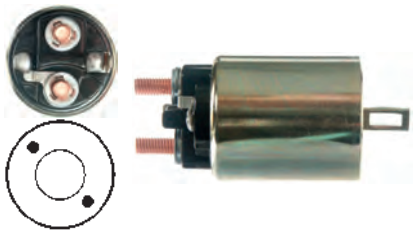

**131144** Solenoid
**Replacing:** 2130-47001, 2130-37003, 2114-87008, 2114-87003, 2114-77004, 2114-47001, 2114-37001
**Servicing:** S114-147, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G, S114-160H
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 21.85, **OD** 52.20, **OD/cover** 48.45, **Total length** 112.35, **Height/B+** 17.45, **Width/kl. 50** 15.55, **Coil bolt** M8, **Coil bolt 2** 18.55, **No./terminals** 3
*Cap: HC-CARGO 133269. Moving Contact: HC-CARGO 133270.*

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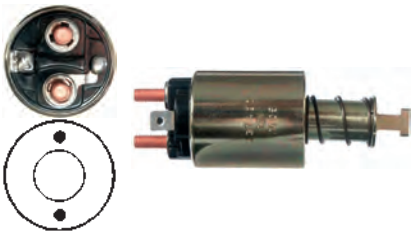


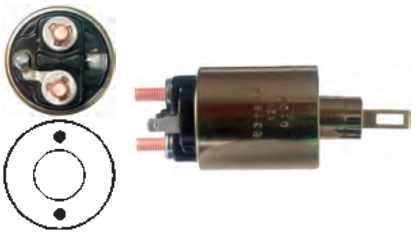
## 131431 Solenoid

**Replacing:** 2120-67002, 2120-57002, 2120-47002, 2120-37003, 2120-37002, 2120-27002

**Servicing:** S12-19C, S12-63, S12-63A, S12-63B, S12-63C, S12-68, S12-68B, S12-68D, S12-77A, S12-78, S12-79, S12-82, S13-55, S13-63

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 52.15, **OD/cover** 44.35, **Total length** 125.55, **Height/B+** 18.70, **Width/kl. 50** 11.70, **No./terminals** 3

*Cap: HC-CARGO 134620. Moving contact: HC-CARGO 139853.*



## 131800 Solenoid

**Replacing:** 2114-97503, 2114-97004, 2114-87004, 2114-87002, 2114-57604, 2114-57504, 2114-57004, 2114-57001

**Servicing:** S108-85, S108-86, S108-91, S114-103, S114-146, S114-160A, S114-160H, S114-170B, S114-170E, S114-171, S114-172A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.30, **OD/cover** 44.40, **Total length** 112.20, **Height/B+** 16.45, **Width/kl. 50** 17.00, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3

*Cap: HC-CARGO 133269. Moving contact: HC-CARGO 133270.*

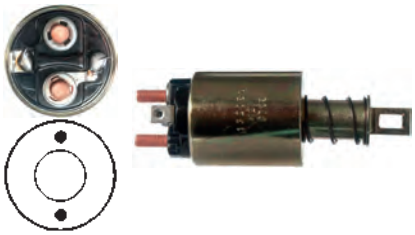
## 132058 Solenoid

**Replacing:** 2114-T7012, 2114-8700, 2114-67006, 2114-47006, 2114-40076, 2114-37003, 2114-27001, 2114-17006

**Servicing:** S114-149, S114-184, S114-202, S114-202A, S114-244, S114-244A, S114-247, S114-247A, S114-247B, S114-247C, S114-271

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.10, **OD** 52.25, **OD/cover** 46.75, **Total length** 112.00, **Height/B+** 16.00, **Width/kl. 50** 11.15, **Coil bolt** M8, **Coil bolt 2** 15.15, **No./terminals** 3

*Cap: HC-CARGO 133276. Moving contact: HC-CARGO 133270.*



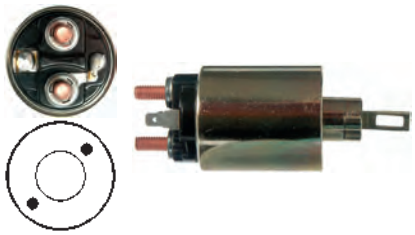
## 132059 Solenoid

**Replacing:** 2130-6700, 2130-47012, 2130-27001, 2130-17002, 2120-97001

**Servicing:** S12-06, S12-28, S12-38A, S12-46, S12-46A, S12-52, S12-58, S12-61, S12-79, S12-88, S13-06A, S13-14, S13-18, S13-23

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 20.00, **OD** 52.20, **OD/cover** 46.40, **Total length** 129.40, **Height/B+** 18.25, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 17.25, **No./terminals** 3

*Cap: HC-CARGO 133803.*



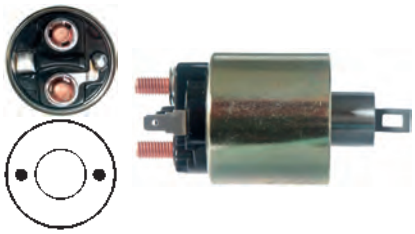
## 132093 Solenoid

**Replacing:** 2130-97003, 2130-87007, 2114-T7111, 2114-T7104, 2114-T7101, 2114-57508, 2114-57503, 2114-47606

**Servicing:** S114-230A, S114-252, S114-252E, S114-252F, S114-253A, S114-253B, S114-254B, S114-254D, S114-255A, S114-257, S114-257G

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 21.70, **OD** 52.25, **OD/cover** 44.40, **Total length** 110.90, **Height/B+** 16.30, **Width/kl. 50** 15.30, **Coil bolt** M8, **Coil bolt 2** 15.55, **No./terminals** 3

*Cap: HC-CARGO 133803. Moving contact: HC-CARGO 139853.*



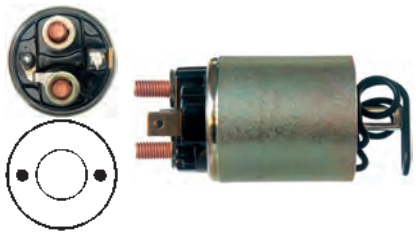
## 132094 Solenoid

**Replacing:** 2114-T7108, 2114-T7107, 2114-97615, 2114-87613, 2114-87507, 2114-87505, 2114-87504, 2114-77613

**Servicing:** S114-315, S114-316, S114-317, S114-317A, S114-317B, S114-318, S114-318A, S114-319, S114-320, S114-320A, S114-345

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.25, **OD/cover** 44.40, **Total length** 106.80, **Height/B+** 14.60, **Width/kl. 50** 16.30, **Coil bolt** M8, **Coil bolt 2** 13.65, **No./terminals** 3

*Cap: HC-CARGO 133778. Moving contact: HC-CARGO 135105.*



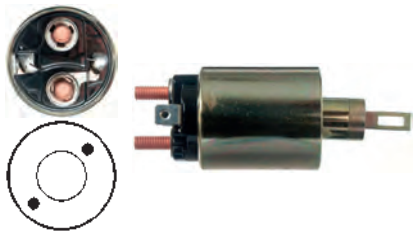
## 132421 Solenoid

**Replacing:** 2114-T7103, 2114-77008, 2114-67503, 2114-47504

**Servicing:** S114-357, S114-357A, S114-357B, S114-357C, S114-385, S114-387, S114-459, S13-66, S13-66A

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 52.30, **OD/cover** 44.55, **Total length** 110.80, **Height/B+** 14.15, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 14.65, **No./terminals** 3

*Cap: HC-CARGO 133276.*



## 132698 Solenoid

**Replacing:** 2114-77007, 2114-47507, 2114-47009, 2114-37504

**Servicing:** S114-290, S114-290A, S114-290B, S114-303, S114-374B, S114-403B, S114-441A, S13-121, S13-62, S13-62A, S13-62B, S13-70A

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.15, **OD** 52.10, **OD/cover** 44.35, **Total length** 112.40, **Height/B+** 18.45, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 17.15, **No./terminals** 3

*Cap: HC-CARGO 133803.*

## 132915 Solenoid

**Replacing:** 2114-27006

**Servicing:** S114-237

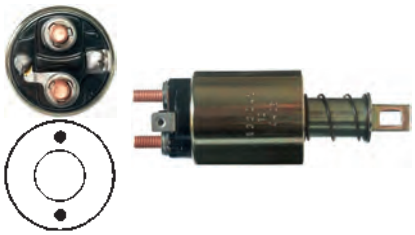
12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 4.70, **ID/cover** 21.70, **OD** 52.15, **OD/cover** 47.40, **Total length** 111.30, **Height/B+** 15.90, **Width/kl. 15a** 16.00, **Width/kl. 50** 16.45, **Coil bolt** M8, **Coil bolt 2** 14.85, **No./terminals** 4

*Cap: HC-CARGO 133780.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 133043 Solenoid

**Replacing:** 2130-8700, 2130-67004, 2130-57012, 2130-57004, 2130-17004

**Servicing:** S12-62, S13-138, S13-138A, S13-32, S13-32A, S13-61, S13-61A, S13-73, S13-74, S13-86, S13-87

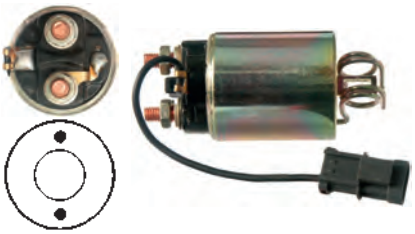
12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 52.30, **OD/cover** 44.35, **Total length** 129.85, **Height/B+** 16.55, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 15.55, **No./terminals** 3
*Cap: HC-CARGO 133276.*

## 133044 Solenoid

**Replacing:** 2114I-1700, 2114-77505, 2114-27504, 2114-27502, 2114-27005

**Servicing:** S114-348, S114-348A, S114-362, S114-362A, S114-398, S114-418, S114-419, S114-419A, S114-456, S114-517, S114-517C

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.40, **OD** 52.15, **OD/cover** 44.50, **Total length** 111.80, **Height/B+** 15.15, **Width/kl. 50** 12.25, **Coil bolt** M8, **Coil bolt 2** 14.95, **No./terminals** 3
*Cap: HC-CARGO 133276. Moving contact: HC-CARGO 135105. Spring: HC-CARGO 134740.*

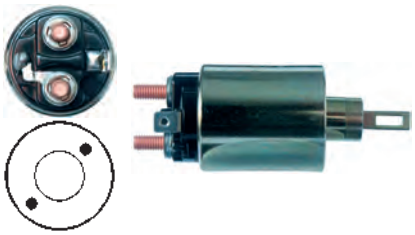


## 133045 Solenoid

**Replacing:** 2114-57506

**Servicing:** S114-430A, S114-430B, S114-430C, S114-439, S114-471, S114-471A, S114-472A, S114-482

12 **V**, **B+** M8, **OD** 52.55, **OD/cover** 45.00, **Total length** 108.75, **Height/B+** 16.10, **Coil bolt** M8, **Coil bolt 2** 17.35, **No./terminals** 3
*Cap: HC-CARGO 134624.*



## 133047 Solenoid

**Replacing:** 2130-97006, 2130-77001, 2130-57001, 2130-27003, 2114-97509

**Servicing:** S114-293, S114-303, S114-303A, S114-338A, S114-339A, S114-339C, S114-339D, S114-367, S114-429, S114-429A, S114-453

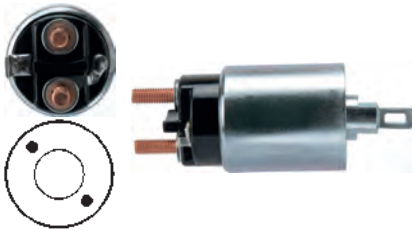
12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 21.90, **OD** 52.30, **OD/cover** 44.40, **Total length** 112.60, **Height/B+** 16.70, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 15.50, **No./terminals** 3
*Cap: HC-CARGO 133276.*

## 133054 Solenoid

**Replacing:** 2114-67504, 2114-37502, 2114-37005

**Servicing:** S114-177, S114-295, S114-352, S114-370, S114-370A, S114-427, S114-481, S114-481A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.10, **OD/cover** 44.35, **Total length** 112.30, **Height/B+** 16.30, **Width/kl. 50** 15.15, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3
*Cap: HC-CARGO 133778.*

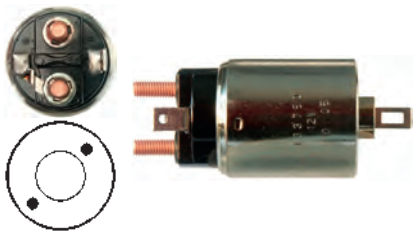


## 133749 Solenoid

**Replacing:** 2130-97004, 2130-37008, 2130-37004

**Servicing:** S13-136, S13-322, S13-326, S13-92A

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.30, **OD** 52.20, **OD/cover** 45.00, **Total length** 126.55, **Height/B+** 21.35, **Width/kl. 50** 11.50, **Coil bolt** M8, **Coil bolt 2** 21.25, **No./terminals** 3



## 133750 Solenoid

**Replacing:** 2130-97008, 2130-77005, 2130-67005

**Servicing:** S13-106, S13-106A, S13-106B, S13-106C, S13-107, S13-107A, S13-127, S13-127A, S13-127C, S13-137A, S13-213, S13-213A

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 25.25, **OD** 52.70, **OD/cover** 47.70, **Total length** 122.20, **Height/B+** 18.65, **Width/kl. 50** 15.90, **Coil bolt** M8, **Coil bolt 2** 18.20, **No./terminals** 3
*Cap: HC-CARGO 137798. Moving contact: HC-CARGO 139853.*

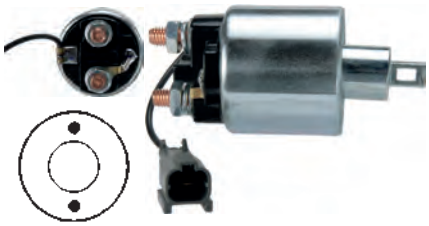
**Alternative no.:** 335190

## 135008 Solenoid

**Replacing:** 2130-87005, 2130-27006

**Servicing:** S13-111, S13-112, S13-112A, S13-113, S13-114, S13-114A, S14-03, S14-203

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.25, **OD** 52.20, **OD/cover** 45.00, **Total length** 125.90, **Height/B+** 21.25, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 21.20, **No./terminals** 3



## 135287 Solenoid

**Replacing:** 2114-67610

**Servicing:** S114-750, S114-766A

12 **V**, **B+** M8, **OD** 52.00, **OD/cover** 44.25, **Total length** 97.35, **Height/B+** 15.25, **Coil bolt** M8, **Coil bolt 2** 15.15, **No./terminals** 3
*Cap: HC-CARGO 138819.*

**Alternative no.:** 610339

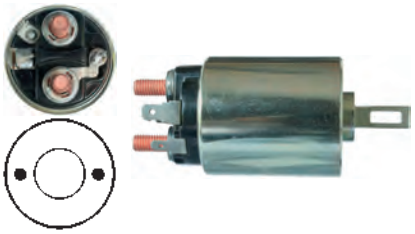
## 135370 Solenoid

**Replacing:** 2130-57005

**Servicing:** S114-357C, S13-105, S13-105A, S13-129, S13-131, S13-329

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.25, **OD/cover** 45.00, **Total length** 125.35, **Height/B+** 21.10, **Width/kl. 50** 12.95, **Coil bolt** M8, **Coil bolt 2** 21.00, **No./terminals** 3

*Contact: HC-CARGO 139853.*



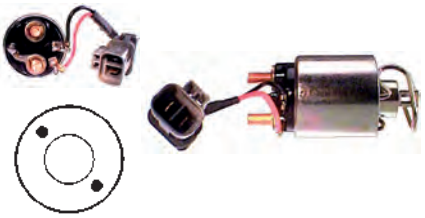
## 135877 Solenoid

**Replacing:** 2114-27008

**Servicing:** S114-232, S114-232A

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.20, **OD/cover** 44.35, **Total length** 112.15, **Height/B+** 16.20, **Width/kl. 15a** 15.15, **Width/kl. 50** 16.85, **Coil bolt** M8, **Coil bolt 2** 15.40, **No./terminals** 4

*Cap: HC-CARGO 133780.*



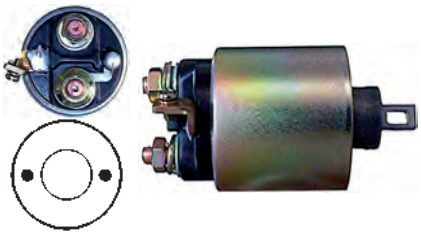
## 137795 Solenoid

**Replacing:** 2114-77601

**Servicing:** S114-503A, S114-516, S114-516A

12 **V**, **B+** M8, **ID/cover** 22.50, **OD** 52.25, **OD/cover** 44.35, **Total length** 97.65, **Height/B+** 15.30, **Coil bolt** M8, **Coil bolt 2** 15.65, **No./terminals** 4

*Cap: HC-CARGO 137796.*



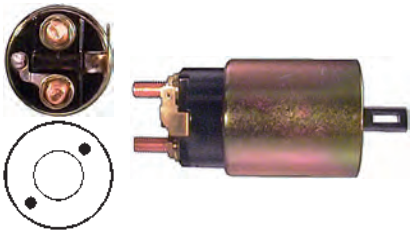
## 138170 Solenoid

**Replacing:** 2114-97612, 2114-67673, 2114-37673, 2114-37613

**Servicing:** S114-850, S114-850A, S114-850B, S114-850C

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 52.00, **OD/cover** 44.25, **Total length** 107.25, **Height/B+** 15.10, **Width/kl. 50** 11.45, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 3

*Cap: HC-CARGO 139330.*



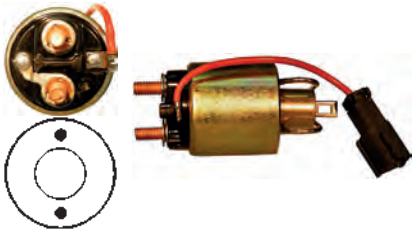
## 138363 Solenoid

**Replacing:** 2130-57003

**Servicing:** S13-101, S13-102

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.40, **OD** 52.20, **OD/cover** 45.00, **Total length** 125.90, **Height/B+** 20.95, **Width/kl. 50** 21.05, **Coil bolt** M8, **Coil bolt 2** 21.60, **No./terminals** 3

*Cap: HC-CARGO 137798. Moving contact: HC-CARGO 139853.*



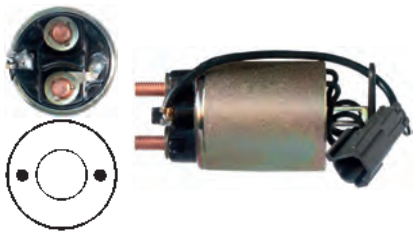
## 138364 Solenoid

**Replacing:** 2114-T7208, 2114-47610

**Servicing:** S114-630, S114-769

12 **V**, **B+** M8, **ID/cover** 21.90, **OD** 52.55, **OD/cover** 43.70, **Total length** 108.45, **Height/B+** 14.00, **Coil bolt** M8, **Coil bolt 2** 13.30, **No./terminals** 3

*Cap: HC-CARGO 138818.*



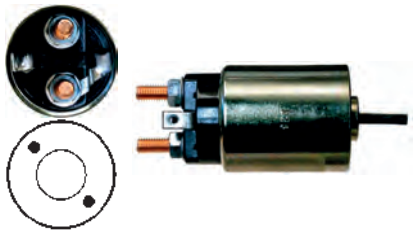
## 138366 Solenoid

**Replacing:** 2114-87611, 2114-87601

**Servicing:** S114-471, S114-471A, S114-472, S114-472A, S114-482, S114-490

12 **V**, **B+** M8, **OD** 52.30, **OD/cover** 44.35, **Total length** 109.85, **Height/B+** 14.45, **Coil bolt** M8, **Coil bolt 2** 14.50, **No./terminals** 3

*Cap: HC-CARGO 138816.*

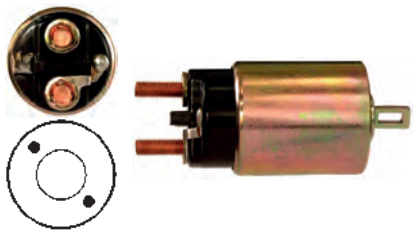


## 138739 Solenoid

**Replacing:** 2130-47005, 2130-17010

**Servicing:** S13-115, S13-115A, S13-120A, S13-294, S13-94, S13-94A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 21.75, **OD** 52.20, **OD/cover** 44.70, **Total length** 124.85, **Height/B+** 23.25, **Width/kl. 50** 15.65, **Coil bolt** M8, **Coil bolt 2** 22.20, **No./terminals** 3



## 138809 Solenoid

**Replacing:** 2130-37005

**Servicing:** S13-104, S13-92A

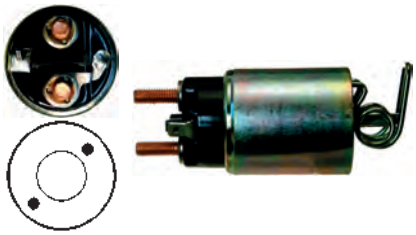
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 52.00, **OD/cover** 45.00, **Total length** 126.45, **Height/B+** 21.10, **Width/kl. 50** 13.35, **Coil bolt** M8, **Coil bolt 2** 21.10, **No./terminals** 3

*Cap: HC-CARGO 138810.*



O.E.M. names and numbers are used for reference purposes only.

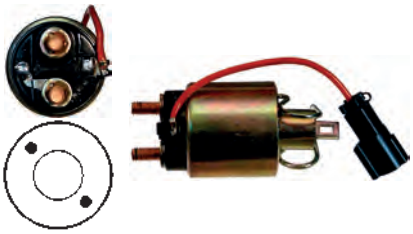
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 138811 Solenoid

**Servicing:** S13-91, S13-91A

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.00, **OD/cover** 45.00, **Total length** 125.15, **Height/B+** 21.30, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 21.35, **No./terminals** 3
*Cap: HC-CARGO 138812.*

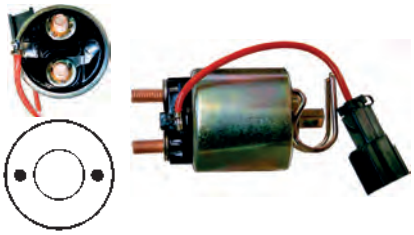


## 138814 Solenoid

**Replacing:** 2114-57606

**Servicing:** S114-528, S114-528A

12 **V**, **B+** M8, **ID/cover** 22.65, **OD** 52.20, **OD/cover** 44.30, **Total length** 97.15, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 15.45, **No./terminals** 3
*Cap: HC-CARGO 138818.*



## 138823 Solenoid

**Replacing:** 2114-97605

**Servicing:** S114-519A, S114-527, S114-527A, S114-527B, S114-569, S114-569A

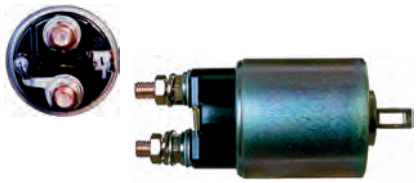
12 **V**, **B+** M8, **ID/cover** 22.75, **OD** 52.00, **OD/cover** 44.35, **Total length** 97.30, **Height/B+** 15.30, **Coil bolt** M8, **Coil bolt 2** 15.55, **No./terminals** 3
*Cap: HC-CARGO 138819.*

## 138957 Solenoid

**Replacing:** 2114-27613

**Servicing:** S114-385, S114-808, S114-808A, S114-808B, S114-808C, S114-808D, S114-869, S114-925, S114-925A, S114-925B, S114-925C

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.45, **OD** 52.00, **OD/cover** 43.90, **Total length** 106.80, **Height/B+** 12.85, **Width/kl. 50** 14.55, **Coil bolt** M8, **Coil bolt 2** 11.80, **No./terminals** 3
*Cap: HC-CARGO 139604. Moving contact: HC-CARGO 139605.*

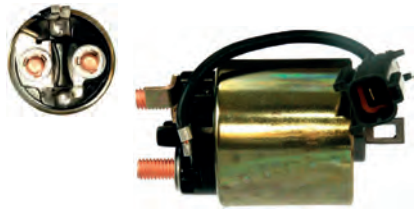


## 139164 Solenoid

**Replacing:** 2130-87008, 2130-77008, 2130-47008

**Servicing:** S13-302, S13-302A, S13-302B, S13-305, S13-305A, S13-329, S13-331, S13-529, S13-531

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.45, **OD** 52.80, **OD/cover** 44.10, **Total length** 121.45, **Height/B+** 23.15, **Width/kl. 50** 16.65, **Coil bolt** M8, **Coil bolt 2** 22.00, **No./terminals** 3
*Cap: HC-CARGO 137798.*

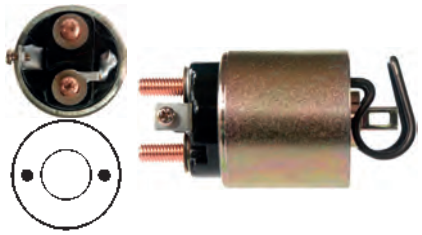


## 139784 Solenoid

**Replacing:** 2114-T7306, 2114-T7160, 2114-T7106, 2114-97604, 2114-77607, 2114-77507, 2114-77506, 2114-27608

**Servicing:** S114-348, S114-348A, S114-376B, S114-460, S114-460A, S114-460B, S114-517, S114-517C, S114-518, S114-523, S114-558

12 **V**, **B+** M8, **ID/cover** 22.00, **OD** 52.00, **OD/cover** 47.10, **Total length** 107.50, **Height/B+** 13.00, **Coil bolt** M8, **Coil bolt 2** 13.70, **No./terminals** 3
*Cap: HC-CARGO 234914.*



## 139832 Solenoid

**Replacing:** 2114-97601, 2114-37608

**Servicing:** S114-473, S114-480, S114-480A, S114-480B

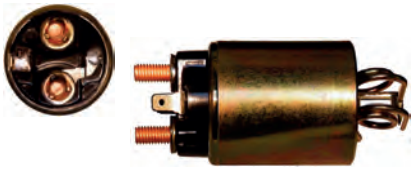
12 **V**, **B+** M8, **Kl. 50** M4S, **ID/cover** 22.30, **OD** 52.05, **OD/cover** 44.20, **Total length** 97.50, **Height/B+** 16.60, **Coil bolt** M8, **Coil bolt 2** 16.60, **No./terminals** 3
*Contact: HC-CARGO 139604.*

## 139833 Solenoid

**Replacing:** 2114-27505

**Servicing:** S114-401B, S13-100, S13-109, S13-109B

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.30, **OD/cover** 44.65, **Total length** 109.85, **Height/B+** 14.00, **Width/kl. 50** 13.25, **Coil bolt** M8, **Coil bolt 2** 14.95, **No./terminals** 3



## 139834 Solenoid

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.10, **OD** 52.35, **OD/cover** 44.60, **Total length** 110.45, **Height/B+** 14.45, **Width/kl. 50** 12.90, **Coil bolt** M8, **Coil bolt 2** 14.75, **No./terminals** 3

## 230558 Solenoid

**Replacing:** 2130-57011, 2130-47009

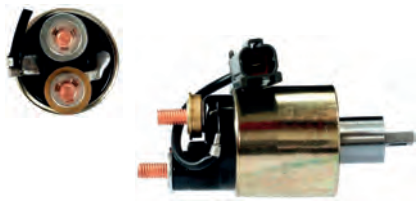
**Servicing:** S13-160, S13-204, S13-205, S13-205A, S13-205C, S13-205D, S13-205E, S13-205F, S13-212

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 24.55, **OD** 52.70, **OD/cover** 44.30, **Total length** 121.40, **Height/B+** 23.25, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 21.65, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

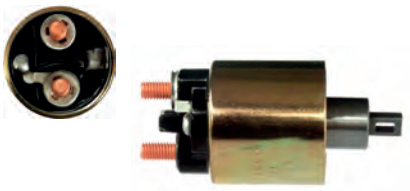


## 231910 Solenoid

**Replacing:** 2114-87603, 2114-47612, 2114-37506

**Servicing:** S114-461, S114-461A, S114-461B, S114-801A, S114-801B, S114-801C, S114-801D

12 **V**, **B+** M8, **ID/cover** 21.90, **OD** 52.00, **OD/cover** 44.35, **Total length** 123.00, **Height/B+** 13.65, **Coil bolt** M8, **Coil bolt 2** 13.65, **No./terminals** 3
*Cap: HC-CARGO 231911.*



## 231996 Solenoid

**Replacing:** 2114-57610

**Servicing:** S114-753

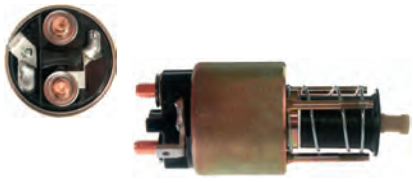
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.20, **OD/cover** 44.30, **Total length** 107.00, **Height/B+** 14.85, **Width/kl. 50** 16.35, **Coil bolt** M8, **Coil bolt 2** 12.85, **No./terminals** 3

## 232200 Solenoid

**Replacing:** 2114-67605

**Servicing:** S114-520A, S114-520B, S114-530, S114-533, S114-534, S114-535, S114-570, S114-570A, S114-570B, S114-570C, S114-750

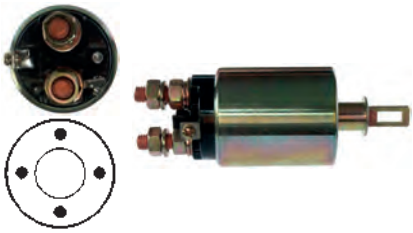
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.00, **Total length** 76.00, **Height/B+** 12.50, **Width/kl. 50** 6.30, **No./terminals** 3
*Cap: HC-CARGO 138819.*



## 232452 Solenoid

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D

12 **V**, **B+** M8, **Kl. 50** M4, **ID/cover** 25.80, **OD** 54.00, **OD/cover** 52.30, **Total length** 114.50, **Switch dim.** 4.30, **Height/B+** 12.50, **Width/kl. 50** M4, **Coil bolt** M8, **Coil bolt 2** 10.90, **No./terminals** 3
*Cap: HC-CARGO 231822.*



## 234555 Solenoid

**Replacing:** 2120-2700

**Servicing:** S15-02, S15-03

12 **V**, **B+** M12, **Kl. 50** 9.40, **ID/cover** 20.20, **OD** 70.20, **OD/cover** 60.30, **Total length** 192.65, **Height/B+** 37.30, **Width/kl. 50** 14.70, **Coil bolt** M12, **Coil bolt 2** 37.30, **No./terminals** 3

## 235076 Solenoid

**Replacing:** 2130-67007, 2130-37010, 2130-17007

**Servicing:** S13-122, S13-126, S13-126A, S13-322, S13-326

12 **V**, **B+** M8/17.00, **Kl. 50** 6.30, **ID/cover** 14.00, **OD** 53.00, **OD/cover** 49.70, **Total length** 100.00, **Switch dim.** 8.80, **Height/B+** M8/17.00, **Width/kl. 50** 6.30, **No./terminals** 3

## 238529 Solenoid

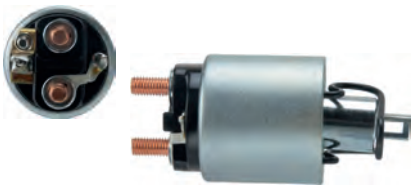
**Servicing:** S114-875, S13-250, S13-550

12 **V**, **No./terminals** 3

## 239907 Solenoid

**Servicing:** S114-905, S114-906, S114-938, S114-943, S114-943A, S114-947, S114-947A, S114-948

12 **V**, **B+** M8, **OD** 52.23, **Total length** 94.50, **Height/B+** 16.30

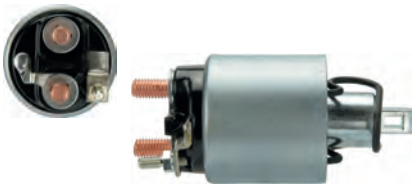


## 330150 Solenoid

**Replacing:** 2114-67619, 2114-27623, 2114-27622

**Servicing:** S114-902, S114-902A, S114-902B, S114-902C, S114-922, S114-922A, S114-955, S114-959A

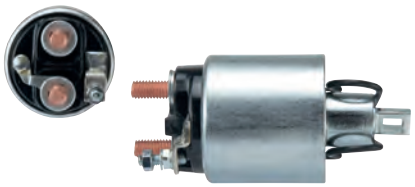
12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 24.67, **OD** 52.10, **OD/cover** 50.32, **Total length** 111.50, **Switch dim.** 10.56, **Height/B+** 21.43, **Coil bolt** M8, **Coil bolt 2** 20.00, **No./terminals** 3



## 331018 Solenoid

**Servicing:** S114-877A

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.00, **Height/B+** 17.20, **Coil bolt** M8, **No./terminals** 3



## 332464 Solenoid

**Servicing:** S13-556, S13-556A

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.27, **Total length** 87.60, **Height/B+** 14.75, **Width/kl. 50** 11.31, **Coil bolt** M8, **Coil bolt 2** 8.06, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 333001 Solenoid

12 **V**, **B+** Bolt, **Kl. 50** M4,
**OD** 52.20, **Total length** 113.30,
**Height/B+** M8x1.25, **Coil bolt** 22.60,
**Coil bolt 2** 16.60, **No./terminals** 3

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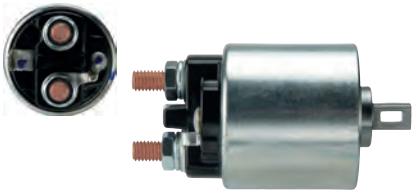
## 333783* Solenoid

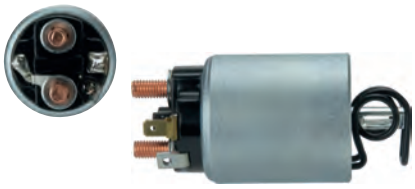


## 333843 Solenoid

**Replacing:** 2130-17011

**Servicing:** S13-527, S13-527A, S13-527B, S13-527C, S13-527D, S14-405, S14-405A, S14-405B, S14-405C, S14-405D

12 **V**, **B+** M8, **Kl. 50** 6.30,
**OD** 52.30, **Total length** 98.40,
**No./terminals** 3



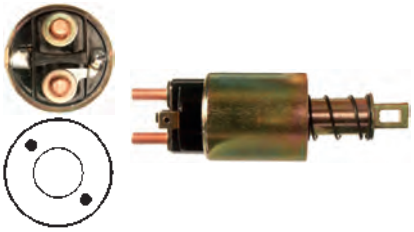
## 335051 Solenoid

**Replacing:** 2114-27003

**Servicing:** S114-206

12 **V**, **B+** M8, **OD** 53.50,
**OD/cover** 44.75, **Total length** 108.75,
**Height/B+** 13.50, **Coil bolt** M8,
**Coil bolt 2** 13.50, **No./terminals** 4

### 24 V

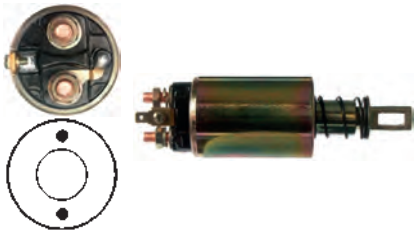


## 132423 Solenoid

**Replacing:** 2250-97003, 2250-87004, 2250-67003, 2250-47002, 2250-37005, 2250-37001, 2250-27003, 2250-17002

**Servicing:** S25-106A, S25-110, S25-110A, S25-110B, S25-110C, S25-110F, S25-120, S25-120A, S25-121, S25-121A, S25-131, S25-131A

24 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 22.40, **OD** 52.30, **OD/cover** 44.90,
**Total length** 143.00, **Height/B+** 21.00,
**Width/kl. 50** 10.65, **Coil bolt** M8,
**Coil bolt 2** 21.65, **No./terminals** 3
*Cap: HC-CARGO 134620.*

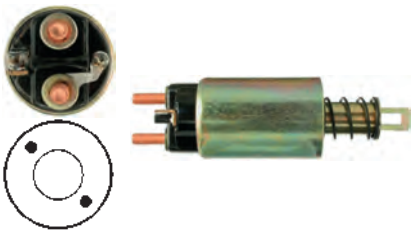


## 132914 Solenoid

**Replacing:** 2250M-4700, 2250I-9700, 2250-M4700, 2250-I9700, 2250-77003, 2250-5700, 2250-27002

**Servicing:** S24-64B, S25-128, S25-129A, S25-129C, S25-132C, S25-132F, S25-64B

24 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 20.45, **OD** 51.90, **OD/cover** 45.10,
**Total length** 165.15, **Height/B+** 20.90,
**Width/kl. 50** 12.35, **Coil bolt** M8,
**Coil bolt 2** 20.90, **No./terminals** 3
*Cap: HC-CARGO 134620.*

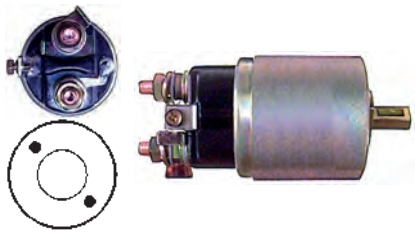


## 134812 Solenoid

**Replacing:** 2270-37001

**Servicing:** S25-156, S25-64

24 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 22.50, **OD** 52.15, **OD/cover** 44.75,
**Total length** 179.70, **Height/B+** 23.35,
**Width/kl. 50** 12.85, **Coil bolt** M8,
**Coil bolt 2** 22.85, **No./terminals** 3
*Cap: HC-CARGO 134620.*

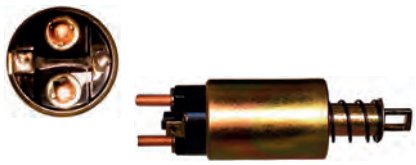


## 136141 Solenoid

**Replacing:** 2240-5700

**Servicing:** S24-03A, S24-03B, S24-03C, S24-07, S24-13, S24-13A, S24-14, S25-161

24 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 25.25, **OD** 52.75, **OD/cover** 44.70,
**Total length** 119.55, **Height/B+** 18.55,
**Width/kl. 50** 15.40, **Coil bolt** M8,
**Coil bolt 2** 17.00, **No./terminals** 3
*Cap: HC-CARGO 134620.*



## 139851 Solenoid

**Replacing:** 2250-77006, 2250-47007, 2250-17005

**Servicing:** S25-110G, S25-110K, S25-110L, S25-110M, S25-162, S25-164, S25-164A

24 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 21.30, **OD** 52.30, **OD/cover** 45.00,
**Total length** 160.20, **Height/B+** 21.55,
**Width/kl. 50** 10.95, **Coil bolt** M8,
**Coil bolt 2** 21.35, **No./terminals** 3
*Cap: HC-CARGO 139852.*

## 230697 Solenoid

**Replacing:** 2250-57003

**Servicing:** S24-64E, S25-64, S25-64E

24 **V**, **B+** M8, **Kl. 50** 6.30,
**ID/cover** 22.60, **OD** 53.20, **OD/cover** 44.45,
**Total length** 166.30, **Height/B+** 22.20,
**Width/kl. 50** 24.45, **Coil bolt** M8,
**Coil bolt 2** 22.20, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



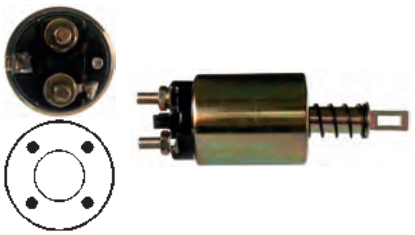
O.E.M. names and numbers are used for reference purposes only.

## 232263 Solenoid

**Replacing:** 2250-97006, 2250-57006, 2250-27006

**Servicing:** S25-158, S25-158A, S25-158B

24 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 52.80, **OD/cover** 44.80, **Total length** 159.80, **Height/B+** 23.90, **Width/kl. 50** 12.20, **Coil bolt** M8, **Coil bolt 2** 23.90, **No./terminals** 3

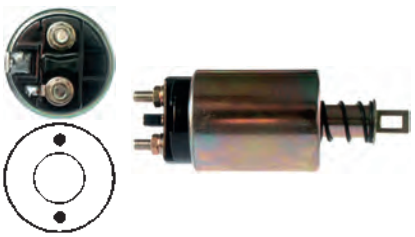


## 233122 Solenoid

**Replacing:** 2210M-5700, 2210-17002

**Servicing:** S210-100, S210-104, S210-104A, S210-108, S210-89, S210-90, S210-98D, S210-98E, S28-23B

24 **V**, **B+** M10, **Kl. 15a** 9.40, **Kl. 50** 9.40, **ID/cover** 20.20, **OD** 69.90, **OD/cover** 59.95, **Total length** 179.35, **Height/B+** 24.00, **Width/kl. 15a** 13.00, **Width/kl. 50** 13.30, **Coil bolt** M10, **Coil bolt 2** 24.40, **No./terminals** 3

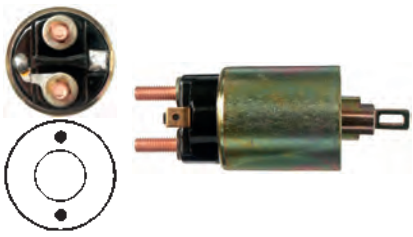


## 234556 Solenoid

**Replacing:** 2250-97001, 2250-17007

**Servicing:** S25-110, S25-110A, S25-110B, S25-110C, S25-110F, S25-121A, S25-125A, S25-125B, S25-142, S25-142A, S25-142B, S25-143C

24 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 20.25, **OD** 63.00, **OD/cover** 54.60, **Total length** 169.65, **Height/B+** 19.20, **Width/kl. 50** 13.85, **Coil bolt** M8, **Coil bolt 2** 20.25, **No./terminals** 3



## 234868 Solenoid

**Replacing:** 2240-4701

**Servicing:** S25-163A, S25-163B, S25-163C, S25-163E

24 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 21.30, **OD** 52.00, **OD/cover** 45.00, **Total length** 139.50, **Height/B+** 21.00, **Width/kl. 50** 10.20, **Coil bolt** M8, **Coil bolt 2** 21.40, **No./terminals** 3

## 234869 Solenoid

**Replacing:** 2250-37008

**Servicing:** S25-163F, S25-163G, S25-168, S25-168A, S25-171, S25-501, S25-501A, S25-501B, S25-515A, S25-515B, S25-515C

24 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 52.20, **OD/cover** 45.00, **Total length** 124.20, **Height/B+** 21.30, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 21.35, **No./terminals** 3

## 235814 Solenoid

**Replacing:** 2240-2700, 2240-1700

**Servicing:** S24-01B, S24-01C, S24-01D

24 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 53.00, **Total length** 114.00, **Height/B+** 15.80, **No./terminals** 3

## Solenoid Parts

### Solenoid Caps

Pkg. 5

## 133269 Solenoid Cap

**Servicing:** 2114-47001, 2114-47501, 2114-57001, 2114-57504, 2114-77004, 2130-47001, S114-146, S114-147, S114-152, S114-155

**OD** 49.90, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 131144, 131800, 231995.*

Pkg. 5

## 133276 Solenoid Cap

**Servicing:** 2114-17006, 2114-27001, 2114-27003, 2114-67006, 2114-77001, 2114-77008, S114-103, S114-170B, S114-170E, S114-174

**OD** 50.00, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 132058, 132421, 133043, 133044, 133047.*

Pkg. 5

## 133778 Solenoid Cap

**Servicing:** 2114-17505, 2114-27501, 2114-37005, 2114-37503, 2114-37505, 2114-47005, 2114-57503, 2114-57508, 2114-67002, 2114-67505

**OD** 49.85, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 132094, 132420, 133054.*



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#Available while stock last, * Program development.

**133779**[#] Solenoid Cap

**Servicing:** 2114-87508, S114-460, S114-460A, S114-460B, S114-464, S114-464A, S114-516, S114-516A

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133046.*

Pkg. 5

**133780** Solenoid Cap

**Servicing:** 2114-27006, 2114-27008, S114-232, S114-232A, S114-237

**OD** 49.80, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 132915, 135877.*

Pkg. 5

**133803** Solenoid Cap

**Servicing:** 2114-17005, 2114-37504, 2114-77007, 2120-27002, 2120-57002, 2130-6001, S114-257, S114-257G, S114-441A, S114-441B

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132059, 132093, 132698.*

Pkg. 5

**134480** Solenoid Cap

**Servicing:** 2114-27504, 2114-37004, 2114-37606, 2114-47505, 2114-77505, S114-340, S114-396, S114-614

**OD** 50.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 131804, 136397.*

**134619** Solenoid Cap

**Servicing:** 2114N-4700Y, 2120M-8700Y, S114-91, S12-19, S12-19K, S12-41A, S12-59, S13-06

**OD** 49.65, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 130811.*

**134620** Solenoid Cap

**Servicing:** 2120-67002, 2130-7705, 2240-5700, 2250-22002, 2250-37001, 2250-37005, 2250-47003, 2250-57003, 2250-87004, S12-77A

**OD** 50.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 131431, 132423, 132914, 133749, 134812, 135008, 136141.*

**137798** Solenoid Cap

**Servicing:** 2130-57005, 2130-77008, S13-101, S13-102, S13-105, S13-105A, S13-106A, S13-106B, S13-107, S13-107A, S13-127, S13-127A

**OD** 49.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 133750, 139164.*

**138810** Solenoid Cap

**Servicing:** 2240-7700, 2240-8700, S13-104, S13-92A

**OD** 50.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138809.*

**138812** Solenoid Cap

**Servicing:** S13-91, S13-91A

**OD** 50.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138811.*

**138818** Solenoid Cap

**Servicing:** 2114-47610, 2114-57603, S114-453, S114-454, S114-528, S114-528A, S114-806, S114-806A

**OD** 50.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138364, 138814.*

**138819** Solenoid Cap

**Servicing:** 2114-67605, 2114-87603, 2114-97605, S114-519A, S114-520A, S114-520B, S114-523, S114-525A, S114-530, S114-533, S114-534

**OD** 49.85, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 135287, 138823, 232200.*

Pkg. 5

**139330** Solenoid Cap

**Servicing:** 2114-37613, 2114-97612, S114-850, S114-850A, S114-850B, S114-850C

**OD** 49.75, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138170.*



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[#]Available while stock last, * Program development.

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Pkg. 5

**139604** Solenoid Cap

**Servicing:** 2114-27613, 2114-97601, S114-473, S114-480, S114-480A, S114-480B, S114-550, S114-550A, S114-808, S114-808A, S114-808B

**OD** 50.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138957, 139832.*

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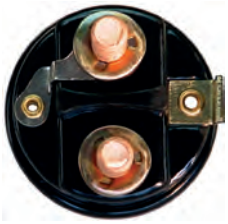

**139852** Solenoid Cap

**Servicing:** 2114-57606, 2250-77006, S25-110G, S25-110K, S25-110M, S25-164A, S25-64, S25-64E

**OD** 50.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139851.*

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**231822** Solenoid Cap

**Servicing:** S114-829, S114-829A, S114-829B

**OD** 52.30, **No./terminals** 3,
**Bracket type** Crimp

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**234914**# Solenoid Cap

**Servicing:** 2114-77607, S114-700A, S114-701, S114-701A, S114-806, S114-806A

**OD** 49.90, **No./terminals** 3

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## Moving Contacts

Pkg. 5

**133270** Moving Contact

**Servicing:** S114-103, S114-146, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G

**Length** 29.60, **Shaft measurement** 29.60, **Thickness** 2.00

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Pkg. 5

**135103** Moving Contact

**Servicing:** 2130-67005, 2130-77005, 2130-97004, 2250-47002

**Length** 34.30, **Shaft measurement** 33.45, **Thickness** 2.90, **Width** 3.00

---

Pkg. 10

**135104** Moving Contact

**Servicing:** 2114N-2750

**Length** 34.00, **Shaft measurement** 30.80, **Thickness** 2.50, **Width** 13.00

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Pkg. 5

**135105** Moving Contact

**Servicing:** 2114-87503, S114-317, S114-317B, S114-320, S114-320A, S114-391A, S114-418, S114-419, S114-419A, S114-424, S114-424A

**Length** 24.00, **Shaft measurement** 41.60, **Thickness** 2.00

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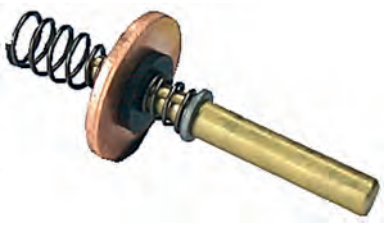
Pkg. 5



**139605** Moving Contact

**Servicing:** 2114-97601, S114-402A, S114-569A, S114-653B, S114-808C, S114-808D, S114-871, S114-925A, S114-925B, S114-925C, S13-250

**OD** 24.00, **Length** 24.00,
**Shaft measurement** 41.50, **Thickness** 1.80

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Pkg. 10

**139853** Moving Contact

**Servicing:** 2250-27002, 2250-27003

**Length** 26.00, **Shaft measurement** 32.80, **Thickness** 2.00

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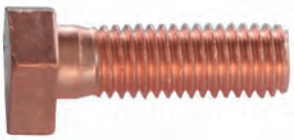
## Fixed Contacts

Pkg. 10



**234456** Fixed Contact

**Total length** 30.00,
**Length/rear collar** 24.20,
**Thread length** 20.70, **Thread size** M8

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## Various

Pkg. 10

**230148** Spring

**Servicing:** 2114-27613, S114-808C, S114-808D

**OD** 8.60, **Length** 33.40

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#Available while stock last, * Program development.

## Drives

### 130440 Drive

**Replacing:** 2114N-4550, 2114N-1560, 2114N-1550, 2114N-1150, 2114-4550, 2114-1560

**Servicing:** S114-103, S114-121, S114-122, S114-126M, S114-139, S114-151, S114-173, S114-181, S114-301, S114-87, S114-91

**ID** 13.00, **OD** 29.70, **OD/housing** 46.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

### 131085 Drive

**Replacing:** 2114-65001, 2114-55004

**Servicing:** S108-63, S108-89, S114-140, S114-141, S114-149, S114-156A, S114-160, S114-160A, S114-160B, S114-160D, S114-160E

**ID** 12.50, **OD** 29.70, **OD/housing** 47.00, **Total length** 62.00, **Splines A** 5, **No./teeth** 9, **Rotation** CR

### 131086 Drive

**Replacing:** 2114-95002, 2114-65004

**Servicing:** S114-152, S114-155, S114-161, S114-161B, S114-161E, S114-161F

**ID** 12.50, **OD** 28.00, **OD/housing** 46.20, **Total length** 62.00, **Splines A** 5, **No./teeth** 8, **Rotation** CR

### 131783 Drive

**Replacing:** 2114N-3550, 2114-75001, 2114-45007, 2114-45004

**Servicing:** S114-103, S114-126M, S114-170B, S114-170E, S114-171, S114-172A, S114-172D, S114-172E, S114-173, S114-173B, S114-173E

**ID** 12.55, **OD** 28.70, **OD/housing** 46.30, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

### 131852 Drive

**Replacing:** 2114-95007, 2114-55007

**Servicing:** S114-232, S114-232A, S114-237, S114-297, S13-317

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 76.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

### 131984 Drive

**Replacing:** 2250-35002, 2130-7550, 2130-35001, 2120-7550, 2120-7530, 2120-7500, 2120-35001, 2120-3500

**Servicing:** S12-19, S12-24A, S12-41, S12-41A, S12-48, S12-58, S12-59, S12-61, S12-82, S12-88, S13-06, S13-06A, S13-25, S13-27

**ID** 13.80, **OD** 33.00, **OD/housing** 60.05, **Total length** 69.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

### 131985 Drive

**Replacing:** 2250-95003, 2250-55002, 2250-35004, 2250-35001, 2250-25002, 2130-25002, 2130-25001, 2120-9500

**Servicing:** S12-19, S12-19C, S12-19K, S12-34, S12-38A, S12-63, S12-63A, S12-63B, S12-63C, S12-68, S12-68B, S12-68D, S13-19C

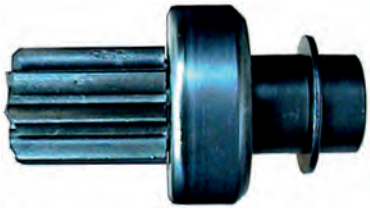
**ID** 14.00, **OD** 36.00, **OD/housing** 60.00, **Total length** 70.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

### 131986 Drive

**Replacing:** 2114-65016, 2114-45504, 2114-25100, 2114-15550

**Servicing:** S114-319, S114-320, S114-320A, S114-348, S114-348A, S114-376B, S114-389A, S114-390A, S114-391A, S114-413A, S114-443

**ID** 12.40, **OD** 28.00, **OD/housing** 46.25, **Total length** 60.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR



### 131988 Drive

**Replacing:** 2114-15504, 2114-15100, 2114-15004

**Servicing:** S114-315, S114-316, S114-362, S114-362A, S114-364, S114-402, S114-402A, S114-418, S114-419, S114-419A, S114-424

**ID** 12.50, **OD** 27.85, **OD/housing** 46.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

### 132001 Drive

**Replacing:** 2214-25550, 2114-95553, 2114-85008, 2114-55506, 2114-45550, 2114-35506, 2114-25550

**Servicing:** S114-253B, S114-254, S114-254B, S114-254D, S114-255, S114-255A, S114-258, S114-258C, S114-264, S114-268, S114-268A

**ID** 11.90, **OD** 29.19, **Total length** 87.00, **No./teeth** 9, **Rotation** CR

### 132002 Drive

**Replacing:** 2114-95508, 2114-55015, 2114-45013, 2114-25014

**Servicing:** S114-430, S114-430A, S114-430B, S114-430C, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-452, S114-452A

**OD** 59.80, **Total length** 77.65, **No./teeth** 21, **Rotation** ACR

### 132311 Drive

**Replacing:** 2114-15503, 2114-15003

**Servicing:** S108-77, S114-139, S114-184, S114-269, S114-305, S114-340, S114-350, S114-351, S114-363

**ID** 12.55, **OD** 29.50, **OD/housing** 46.00, **Total length** 76.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

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**132447** Drive

**Replacing:** 2114-75005, 2114-15006, 2114-15002

**Servicing:** S114-213A, S114-225, S114-228, S114-245, S114-273, S114-303, S114-303A

**ID** 12.50, **OD** 29.00, **OD/housing** 48.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**132448** Drive

**Replacing:** 2114-15508

**Servicing:** S114-385, S114-387, S114-396, S114-412, S114-614

**ID** 12.50, **OD** 29.20, **OD/housing** 46.25, **Total length** 76.50, **Splines A** 5, **No./teeth** 9, **Rotation** CR

**132449** Drive

**Replacing:** 2114-55003

**Servicing:** S114-203, S114-219, S114-230, S114-230A, S114-235, S114-235A, S114-235B

**ID** 12.55, **OD** 34.45, **OD/housing** 46.00, **Total length** 62.25, **Splines A** 5, **No./teeth** 11, **Rotation** CR

**132450**[#] Drive

**Replacing:** 2130-65001

**Servicing:** S13-47A, S13-49A, S13-50A

**OD** 35.20, **Total length** 87.00, **Splines A** 11, **No./teeth** 9

**132453** Drive

**Replacing:** 2250-85004, 2250-45003, 2130-7500, 2130-5500

**Servicing:** S13-14, S13-15, S25-131, S25-131A, S25-155, S25-155C, S25-155D, S25-75, S25-75A

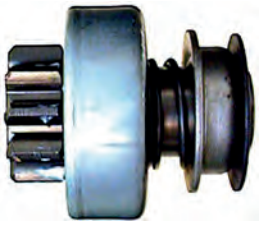
**ID** 14.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 69.50, **Splines A** 12, **No./teeth** 11, **Rotation** CR

**132845** Drive

**Replacing:** 2250-9550

**Servicing:** S24-64B, S24-64E, S25-128, S25-64, S25-64B, S25-64E

**ID** 14.00, **OD** 40.55, **OD/housing** 65.55, **Total length** 75.00, **Splines A** 12, **No./teeth** 11, **Rotation** CR



**132918** Drive

**Replacing:** 2130-45002

**Servicing:** S12-84, S12-85, S12-87, S13-73, S13-74

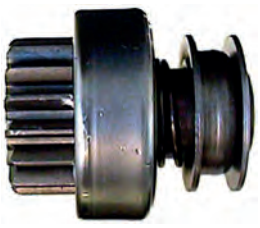
**ID** 14.00, **OD** 39.45, **OD/housing** 60.00, **Total length** 69.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

**133058** Drive

**Replacing:** 2270-8500, 2250-95001, 2250-85005, 2250-45004, 2250-25004, 2250-25003

**Servicing:** S25-110F, S25-110G, S25-110K, S25-110L, S25-110M, S25-115, S25-115A, S25-125A, S25-125B, S25-135A, S25-137B, S25-142

**ID** 16.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 77.60, **Splines A** 12, **No./teeth** 11, **Rotation** CR



**133266** Drive

**Replacing:** 2280-3500, 2250-7500, 2250-65002, 2250-6500, 2250-550, 2130-65002, 2130-55005, 2120-45001

**Servicing:** S12-47, S12-52, S12-77A, S12-79, S12-83, S13-24, S13-24A, S13-37, S13-37B, S13-41, S13-41A, S13-41B, S13-41C, S13-41D

**ID** 14.05, **OD** 44.18, **OD/housing** 60.00, **Total length** 69.40, **Splines A** 12, **No./teeth** 15, **Rotation** CR

**133361** Drive

**Replacing:** 2130-9500, 2120-15501

**Servicing:** S12-62, S13-29, S13-32, S13-32A

**ID** 14.00, **OD** 34.00, **OD/housing** 60.00, **Total length** 69.35, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**133437** Drive

**Replacing:** 2130-35004

**Servicing:** S13-91, S13-91A

**OD** 25.25, **Total length** 87.30, **No./teeth** 9, **Rotation** CR

*w/ bearing.*

**133465** Drive

**Replacing:** 2114-45002

**Servicing:** S114-146, S114-244, S114-244A, S114-417

**ID** 12.50, **OD** 44.00, **OD/housing** 54.20, **Total length** 62.17, **Splines A** 10, **No./teeth** 15, **Rotation** CR



O.E.M. names and numbers are used for reference purposes only.

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[#]Available while stock last, * Program development.

## 133605 Drive

**Replacing:** 2130-85004, 2130-85003, 2130-75504, 2130-75003, 2130-75002, 2130-35009

**Servicing:** S114-338A, S114-339A, S114-339C, S114-339D, S114-371, S114-371A, S114-371B, S13-207, S13-207A, S13-207C, S13-210B

**ID** 12.00, **OD** 32.35, **Total length** 87.00, **No./teeth** 9, **Rotation** CR

## 134917 Drive

**Replacing:** 2114-45012

**Servicing:** S114-472, S114-472A, S114-505, S114-505A, S114-509, S114-526, S114-526A, S114-526B, S114-527, S114-527A, S114-527B

**ID** 12.55, **OD** 29.20, **OD/housing** 46.20, **Total length** 49.20, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Best Choice**

## 135091 Drive

**Replacing:** 2130-95007, 2130-75004, 2130-65008, 2130-1502, 2114-85501, 2114-45014, 2114-15507

**Servicing:** S114-293, S114-357, S114-357A, S114-357B, S114-357C, S114-367, S114-395, S114-395A, S114-471, S114-471A, S114-472

**OD** 34.90, **Total length** 87.00, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 135091ZZ

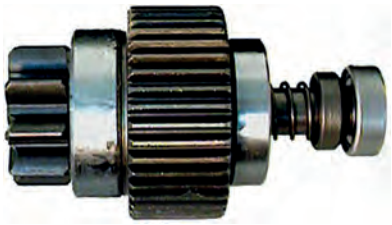
## 135091ZZ Drive

**Replacing:** 2130-95007, 2130-75004, 2130-65008, 2130-1502, 2114-85501, 2114-45014, 2114-15507

**Servicing:** S13-47A, S13-49A, S13-56A

**ID** 13.00, **OD** 35.50, **OD/housing** 53.10, **Total length** 87.05, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 135091



## 135718 Drive

**Replacing:** 2130-15505, 2130-15005

**Servicing:** S13-106A, S13-106B, S13-106C, S13-106E, S13-117, S13-117A, S13-122, S13-126, S13-126A, S13-127, S13-127A, S13-127C

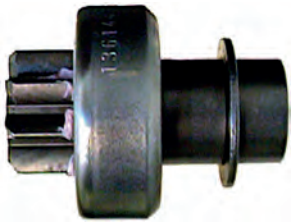
**OD** 35.00, **Total length** 93.50, **No./teeth** 9, **Rotation** CR

## 135719 Drive

**Replacing:** 2240-7500, 2240-4500

**Servicing:** S13-107, S13-107A, S24-05A, S24-05B, S24-08, S24-08A, S24-10, S24-11

**OD** 36.00, **Total length** 99.00, **Splines A** 11, **No./teeth** 9



## 136144 Drive

**Replacing:** 2114-45508

**Servicing:** S114-414, S114-414A, S114-651

**ID** 12.55, **OD** 28.25, **OD/housing** 47.00, **Total length** 60.35, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 136208 Drive

**Replacing:** 2108F-3500, 2108-F3500, 2108-75002

**Servicing:** S108-116, S108-28K, S108-61, S108-61A, S108-61B, S108-61C, S108-61D, S108-61E, S108-61F, S108-61G, S108-66

**ID** 12.00, **OD** 29.50, **OD/housing** 46.20, **Total length** 39.60, **Splines A** 6, **No./teeth** 9, **Rotation** ACR

*10 holes.*

## 136228 Drive

**Replacing:** 2114-35551

**Servicing:** S114-503, S114-507A, S114-516, S114-516A, S114-528, S114-528A

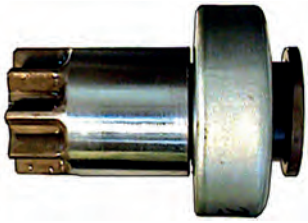
**OD** 29.20, **OD/housing** 46.00, **Total length** 78.00, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 137277 Drive

**Replacing:** 2140-15003, 2140-1500, 2130-25005

**Servicing:** S13-111, S13-112, S13-112A, S13-113, S13-114, S13-114A, S13-136, S14-03, S14-203

**OD** 32.00, **Total length** 96.00, **No./teeth** 9



## 137413 Drive

**Replacing:** 2114-95014

**Servicing:** S114-659, S114-700A, S114-700B, S114-701, S114-701A, S114-705, S114-705A, S114-705B, S114-705C, S114-705D, S114-705E

**OD** 29.20, **OD/housing** 46.30, **Total length** 66.30, **Splines A** 5, **No./teeth** 9, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 137752 Drive

**Replacing:** 2114-65509

**Servicing:** S114-440, S114-475, S114-475A, S114-486

**OD** 28.00, **Total length** 94.00, **No./teeth** 8, **Rotation** ACR

**Alternative no.:** 333859

## 137939 Drive

**Replacing:** 2114-45016

**Servicing:** S114-801A

**ID** 12.55, **OD** 27.85, **OD/housing** 46.50, **Total length** 75.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

*Used in gear set: HC-CARGO 234863.*

## 138958 Drive

**Replacing:** 2114-25554

**Servicing:** S114-808, S114-808A, S114-808B, S114-808C, S114-808D, S114-814, S114-814A, S114-815, S114-817, S114-817A, S114-839

**ID** 12.40, **OD** 34.50, **OD/housing** 48.00, **Total length** 38.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 139132 Drive

**Replacing:** 2114-15016

**Servicing:** S114-750, S114-758, S114-762, S114-762A, S114-762B, S114-765, S114-766, S114-766A, S114-767, S114-775, S114-775A

**ID** 12.55, **OD** 27.75, **OD/housing** 46.30, **Total length** 38.80, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 139841 Drive

**Replacing:** 2240-9500, 2240-8500, 2240-2500

**Servicing:** S24-03A, S24-03B, S24-03C, S24-13, S25-120, S25-120A, S25-161

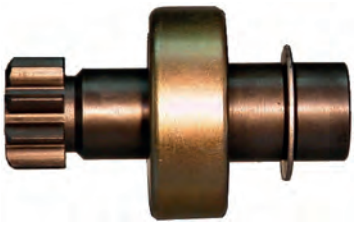
**ID** 12.15, **OD** 35.20, **Total length** 100.30, **No./teeth** 9, **Rotation** CR

## 139843 Drive

**Replacing:** 2240-5500, 2240-1501

**Servicing:** S24-07, S24-12

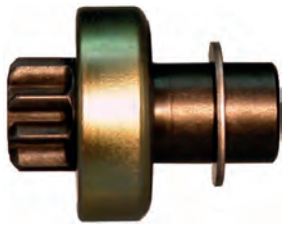
**ID** 12.00, **OD** 32.00, **Total length** 100.00, **No./teeth** 9, **Rotation** CR



## 139897 Drive

**Servicing:** S114-553, S114-553A

**ID** 12.15, **OD** 25.55, **OD/housing** 48.25, **Total length** 77.60, **Splines A** 10, **No./teeth** 9, **Rotation** ACR



## 139899 Drive

**Servicing:** S114-554, S114-554A

**ID** 12.10, **OD** 25.60, **OD/housing** 47.65, **Total length** 60.70, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 230054 Drive

**Replacing:** 2114-95015

**Servicing:** S114-535

**ID** 12.50, **OD** 28.00, **OD/housing** 47.60, **Total length** 68.60, **Splines A** 10, **No./teeth** 8, **Drive type** Steel, **Rotation** ACR

## 230247# Drive

**Replacing:** 2114-25016

**Servicing:** S114-804, S114-804A, S114-805, S114-805A, S114-806, S114-806A, S114-818A

**ID** 12.50, **OD** 28.00, **OD/housing** 49.00, **Total length** 60.80, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 231795 Drive

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D, S114-869, S114-925, S114-925A, S114-925B, S114-925C

**ID** 12.55, **OD** 33.25, **OD/housing** 48.50, **Total length** 38.60, **Splines A** 10, **No./teeth** 13, **Rotation** CR

*Shaft assy: HC-CARGO 233436.*

## 231804 Drive

**Replacing:** 2114-45100

**Servicing:** S114-801B, S114-801C, S114-875

**ID** 12.50, **OD** 32.00, **OD/housing** 46.25, **Total length** 75.00, **Splines A** 10, **No./teeth** 10, **Rotation** ACR



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#Available while stock last, * Program development.

## 233436 Gear w/ drive

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D, S114-925A, S114-925B, S114-925C

**Total length** 98.50, **No./teeth** 13, **Rotation** CR

*Drive only: HC-CARGO 231795.*

## 233967 Drive

**Replacing:** 2114-35556

**Servicing:** S114-801D

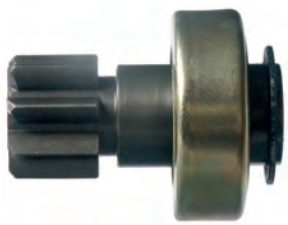
**ID** 12.50, **OD** 34.25, **OD/housing** 48.20, **Total length** 75.15, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR

## 234866 Drive

**Replacing:** 2240-6501, 2240-2501

**Servicing:** S25-163, S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167

**OD** 40.35, **Total length** 115.40, **No./teeth** 11, **Rotation** ACR



## 235004 Drive

**Replacing:** 2114-35016

**Servicing:** S114-769, S114-769A

**ID** 12.50, **OD** 28.00, **OD/housing** 28.00, **Total length** 61.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 235501 Drive

**Replacing:** 2130-65006

**Servicing:** S114-451A, S114-477, S114-851, S114-851A, S13-125

**OD** 29.45, **OD/housing** 53.00, **Total length** 87.15, **Splines A** 10, **Splines B** 41, **No./teeth** 9, **Rotation** ACR

## 235510 Drive

**Servicing:** S14-100D, S14-100E, S14-101, S14-101C

**OD** 35.40, **Total length** 92.00, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 239909 Drive

**Servicing:** S114-903, S114-903A, S114-905, S114-906, S114-907, S114-907A, S114-938, S114-943, S114-943A, S114-947, S114-947A

**ID** 12.55, **OD** 27.80, **OD/housing** 48.64, **Total length** 38.78, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 330154 Drive

**Servicing:** S114-901, S114-901A, S114-901B, S114-902, S114-902A, S114-902B, S114-902C, S114-922, S114-922A, S114-955

**ID** 12.60, **OD** 28.00, **OD/housing** 48.68, **Total length** 44.11, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 332138# Drive

**Replacing:** 2114-75014

**Servicing:** S114-558, S114-701A, S114-701B, S114-701BR

**ID** 12.60, **OD** 29.50, **OD/housing** 48.80, **Total length** 66.20, **Splines A** 5, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

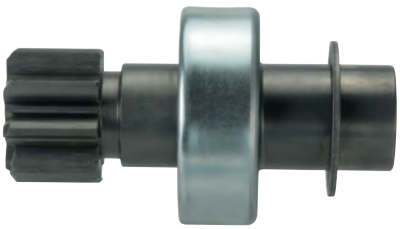
## 333859 Drive

**Replacing:** 2114-65509

**Servicing:** S114-440, S114-475, S114-475A, S114-486

**OD** 28.00, **Total length** 94.00, **No./teeth** 8, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 137752



## 333900 Drive

**Replacing:** 2114-35508

**Servicing:** S114-388D, S114-566, S114-610

**ID** 12.50, **OD** 29.20, **OD/housing** 47.00, **Total length** 82.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 333931 Drive

**Replacing:** 2250-45006

**Servicing:** S25-308A, S25-505A, S25-505C, S25-505E, S25-505F, S25-505G, S25-505H, S25-512A, S25-512B, S25-512D

**OD** 40.50, **Total length** 132.50, **Splines A** 41, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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**333973** Drive

**Replacing:** 2240-8501

**Servicing:** S25-168, S25-168A, S25-171, S25-501, S25-501A, S25-501B, S25-515A

**OD** 40.30, **Total length** 104.00, **Splines A** 41, **No./teeth** 11, **Drive type** Steel, **Rotation** ACR

**333974** Drive

**Replacing:** 2130-45009

**Servicing:** S13-160, S14-102, S14-102A, S14-102B, S14-104, S14-104B

**OD** 35.00, **Total length** 96.00, **Splines A** 41, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## Drive Parts

### Caps

Pkg. 25

**134209**[#] Dp Cap

**ID** 66.10, **OD** 68.00

Pkg. 100

**134253** Dp Cap

**ID** 47.24, **OD** 48.60

Pkg. 10

**134256** Dp Cap

**ID** 47.25, **OD** 48.30

### Rollers

Pkg. 100

**134930** Dp Rollers

**OD** 5.95, **Length** 11.00

Pkg. 1000

**135517** Dp Rollers

**OD** 6.00, **Length** 10.95

### Springs

Pkg. 1000

**134265** Dp Springs

**Length** 12.25

Pkg. 100

**134347** Dp Springs

**Length** 15.60

Pkg. 300

**230489** Dp Springs

**Length** 11.45

Pkg. 10

**331022** Spring

**Length** 17.50

### Pinion

**132003** Pinion

**Replacing:** 2130-3503, 2114-55508, 2114-5508, 2114-15554

**Servicing:** S114-255A, S114-264, S114-290, S114-290A, S114-290B, S114-374B, S114-403B, S114-446, S114-453, S114-454, S114-457

**OD** 29.30, **Height** 87.30, **No./splines** 10, **No./teeth** 9

**133041** Pinion

**Replacing:** 2114-65008

**Servicing:** S114-252, S114-252F, S114-322, S114-322A, S114-393, S114-393A, S114-478

**ID** 12.00, **OD** 27.90, **Height** 87.15, **No./splines** 10, **No./teeth** 8



O.E.M. names and numbers are used for reference purposes only.

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[#]Available while stock last, ***** Program development.

Pkg. 5

## 133042 Pinion

**Replacing:** 2130-6503, 2130-2501, 2114-95501

**Servicing:** S114-293, S114-357, S114-357A, S114-357B, S114-357C, S114-367, S114-395, S114-395A, S114-471, S114-471A, S114-472

**ID** 13.00, **OD** 35.30, **Height** 87.10, **No./splines** 10, **No./teeth** 9

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## 133436 Pinion

**Servicing:** S13-91

**OD** 25.35, **Height** 87.50, **No./splines** 10, **No./teeth** 9

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## 133606 Pinion

**Replacing:** 2130-95003

**Servicing:** S13-84, S13-84B, S13-87, S13-89, S13-89A

**ID** 11.90, **OD** 32.20, **Height** 87.00, **No./splines** 10, **No./teeth** 9

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## 135010 Pinion

**Replacing:** 2130-25032, 2130-2503

**Servicing:** S13-111, S13-112, S13-113, S13-114, S13-114A, S13-136, S14-03

**OD** 32.60, **Height** 93.50, **No./splines** 10, **No./teeth** 9

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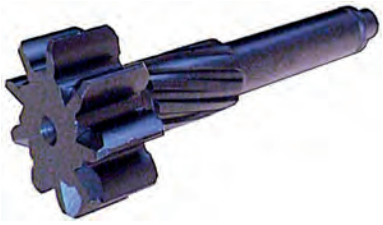

## 135271 Pinion

**Replacing:** 2130-1503

**Servicing:** S13-106A, S13-106B, S13-106C, S13-106E, S13-117, S13-117A, S13-122, S13-126, S13-126A, S13-127, S13-127C

**OD** 35.55, **Height** 93.35, **No./splines** 10, **No./teeth** 9

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## 135364 Pinion

**Replacing:** 2114-75509

**Servicing:** ACR, S114-440, S114-475, S114-475A, S114-486

**ID** 12.00, **OD** 27.60, **Height** 94.40, **No./splines** 10, **No./teeth** 8

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## 139844 Pinion

**Replacing:** 2240-5510

**Servicing:** S24-07

**OD** 32.30, **Height** 100.25, **No./splines** 11, **No./teeth** 9

---

## 230557 Pinion

**Replacing:** 2130-8503

**Servicing:** S13-204, S13-205

**OD** 35.50, **Height** 97.35, **No./splines** 10, **No./teeth** 9

---

## 233438 Pinion

**Replacing:** 2240-5511, 2240-1511

**Servicing:** S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167

**OD** 40.20, **Height** 113.30, **No./splines** 11, **No./teeth** 11

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## 233742 Pinion

**Replacing:** 2114-55008

**Servicing:** S114-121, S114-253B, S114-254D, S114-255A, S114-258C, S114-290B, S114-296A, S114-304, S114-344, S114-374B, S114-401B

**OD** 28.00, **Height** 87.40, **No./splines** 10, **No./teeth** 9

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## Planet Gears

## 234863# Planet Gear

**Servicing:** S114-801A

**ID** 12.40, **OD** 67.95, **Total length** 27.90, **Splines A** 10, **No./teeth** 8,
**Drive type** Steel, **Rotation** ACR
*Drive only: HC-CARGO 137939.*

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## 234904 Planet Gear

**Servicing:** S114-801B, S114-801C

**Total length** 134.00, **No./splines** 10, **No./teeth** 10, **Rotation** ACR
*Drive only: HC-CARGO 231804.*

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All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Gear Parts

### Gear Shafts

**235485** Gear Shaft
**Replacing:** 2114-75562
**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-802A, S114-814, S114-814A, S114-815, S114-816, S114-817, S114-817A
**OD/shaft** 12.42, **Total length** 96.00, **No./splines** 10

### Outer Gear

**137932** Outer Gear
**Replacing:** 2114-88100
**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E, S114-802A, S114-804
**ID** 44.65, **OD** 56.90, **Height** 14.55, **No./teeth** 40
*Gasket: HC-CARGO 231390.*

### Gear Covers

**137935** Gear Cover
**Replacing:** 2114-84102, 2114-54102
**Servicing:** S114-800, S114-800A, S114-800B, S114-801A, S114-801B, S114-801C, S114-801D, S114-802A, S114-804, S114-804A, S114-805
*Bushing: HC-CARGO 140927.*

## Gear Wheels

Pkg. 3

**137933** Gear Wheel
**Replacing:** 2114-98100, 2114-88101, 2114-18101
**Servicing:** S114-525A, S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E, S114-802A
**ID** 6.25, **OD** 20.00, **Height** 9.00, **No./teeth** 15

Pkg. 3

**138707#** Gear Wheel
**Replacing:** 2114-58100
**Servicing:** S114-505A, S114-516A, S114-516B, S114-526, S114-526B, S114-527B, S114-528A, S114-700B, S114-705, S114-705A, S114-705B
**ID** 6.00, **OD** 19.80, **Height** 7.20, **No./teeth** 14
*w/ bushing.*

### Gear Plates

**137934** Gear Plate
**Replacing:** 2114-64102
**Servicing:** S114-800, S114-800A, S114-800B, S114-801A, S114-801B, S114-801C, S114-801D, S114-802A, S114-804, S114-804A, S114-805

### Various

Pkg. 5

**231390** Gasket
**ID** 49.80, **OD** 55.25, **Thickness** 2.30, **Material** Rubber

Pkg. 5

**232591** Vibration Damper
**Servicing:** S114-505A, S114-516A, S114-526, S114-526B, S114-528A, S114-700B, S114-705B, S114-705C, S114-705D, S114-705E, S114-750
**OD** 59.00, **Height** 14.50

## Levers

**134746#** Lever Kit
**Replacing:** 2114-56013
**Servicing:** S114-160D, S114-160G, S114-163E, S114-315, S114-319, S114-364, S114-389A, S114-398, S114-402, S114-402A, S114-413A
**Dist.** 24.50, **Length** 83.65

**134747** Lever Kit
**Replacing:** 2114-66012
**Servicing:** S114-254B, S114-254D, S114-255A, S114-255D, S114-258C, S114-264, S114-268, S114-290, S114-290A, S114-290B, S114-293
**Length** 107.50

**135722** Lever
**Replacing:** 2240-1914, 2130-1914
**Servicing:** S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-111, S13-112, S13-112A, S13-113, S13-114, S13-114A
**Length** 109.50



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#Available while stock last, * Program development.

**135836** Lever Kit

**Replacing:** 2130-7605

**Servicing:** S114-257, S13-104, S13-89, S13-92A

**Length** 83.40

**137533** Lever

**Replacing:** 2114-26015

**Servicing:** S114-473, S114-480, S114-480A, S114-480B, S114-850, S114-850A, S114-850B, S114-850C, S114-851, S114-851A, S114-870

**Length** 102.55

**137833**# Lever

**Replacing:** 2114-96014

**Servicing:** S114-507A, S114-516, S114-516A, S114-528, S114-528A

**Dist.** 24.70, **Length** 81.40

**137938** Lever

**Replacing:** 2114-76015

**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E, S114-802A, S114-804

**Dist.** 40.30, **Length** 76.00

*Spring: HC-CARGO 134740.*

**231287** Lever Kit

**Replacing:** 2240-2650

**Servicing:** S24-03A, S24-03B, S24-03C, S24-07, S24-12, S24-13, S24-13A, S24-14, S25-03B, S25-07

**Length** 108.50

**233376** Lever

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D

**Dist.** 39.50, **Length** 79.35

**235313** Lever

**Replacing:** 2130-2914

**Servicing:** S13-107A, S13-117A, S13-126A, S13-127, S13-212, S13-213, S13-213A, S13-307A, S13-317, S13-322, S13-322A, S13-326

**Length** 109.16

## Lever Parts

### Various

Pkg. 5

**134739** Spring

**Replacing:** 2114-2657, 2114-1657

**Servicing:** S108-63, S114-177, S114-245, S114-269, S114-271, S114-272, S114-298, S114-305, S114-340, S114-351, S114-363

**Length** 30.70

Pkg. 5

**134740** Spring

**Replacing:** 2114-7657

**Servicing:** S114-388D, S114-396, S114-473, S114-610, S114-614, S114-618, S114-618A, S114-618B, S114-801A, S114-801B, S114-801C

**Length** 35.25

## Clutches

**132459** Clutch

**Replacing:** 2140-15026, 2140-1502, 2130-7502, 2130-6502, 2130-5502, 2130-4502, 2130-15007, 2114-75008

**Servicing:** S114-252F, S114-253B, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C, S114-264, S114-290

**ID** 12.00, **OD** 52.00, **Height** 50.00

**133904** Clutch

**Replacing:** 2240-3550

**Servicing:** S13-107, S13-107A, S13-118, S24-05B, S24-08, S24-08A, S24-10, S24-11

**OD** 64.50

**135059** Clutch

**Replacing:** 2114-65012, 2114-45019, 2114-45015, 2114-25509

**Servicing:** S114-430A, S114-430B, S114-430C, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-441A, S114-441B, S114-452

**OD** 52.00, **No./splines** 10, **Rotation** ACR



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## 139842 Clutch

**Replacing:** 2240-5550, 2240-4559, 2240-4550, 2240-2550

**Servicing:** S24-03A, S24-03B, S24-03C, S24-07, S24-13, S25-161

**OD** 64.50, **Total length** 57.42, **Splines A** 41, **Splines B** 11, **Rotation** CR

## 233437 Clutch

**Replacing:** 2240-7550

**Servicing:** S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167

**OD** 64.50, **Total length** 69.30, **No./splines** 11

## 233887 Clutch

**Replacing:** 2130-8502

**Servicing:** S13-204, S13-205

**OD** 53.17, **Total length** 55.25

## Brush Gears

## 132090 Brush Gear

**Replacing:** 2114-89007, 2114-79001, 2114-69008, 2114-49007, 2114-4311, 2114-39001, 2114-29007

**Servicing:** S114-252, S114-252A, S114-252F, S114-253A, S114-253B, S114-254A, S114-254B, S114-254C, S114-254D, S114-255A, S114-256B

12 **V**, **OD** 74.55

*Neg. brushes. Brush set: HC-CARGO 140338.*

## 132424 Brush Gear

**Replacing:** 2114-9310, 2114-89001, 2114-53001, 2114-3311, 2114-33101, 2114-33001, 2114-23003

**Servicing:** S108-63, S108-78, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G

12 **V**, **OD** 69.95

*Neg. brushes. Brush set: HC-CARGO 140336.*

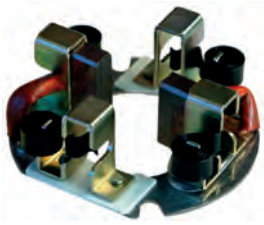
## 132425 Brush Gear

**Replacing:** 2250-4305, 2120-5305

**Servicing:** S12-52, S12-58, S12-61, S12-62, S12-84, S12-88, S24-64B, S24-64E, S25-100A, S25-103, S25-106A, S25-117D, S25-120

12/24 **V**, **OD** 101.00

*Neg. brushes. Brush set: HC-CARGO 140377.*



## 133057 Brush Gear

**Replacing:** 2250-7310, 2250-5310, 2250-43015, 2250-23015, 2250-13015, 2130-7305

**Servicing:** S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-41B, S13-45A, S13-45B

12 **V**, **OD** 78.90

*Neg. brushes. Brush set: HC-CARGO 140378.*

## 133332 Brush Gear

**Replacing:** 2114-93101, 2114-43101

**Servicing:** S114-103, S114-126M, S114-139, S114-146, S114-170, S114-170B, S114-170E, S114-172A, S114-172D, S114-172E, S114-173

12 **V**, **OD** 79.90

*Neg. brushes. Brush set: HC-CARGO 140334.*

## 133333 Brush Gear

**Replacing:** 2114-99008, 2114-99001, 2114-5360

**Servicing:** S114-184, S114-207, S114-244, S114-244A, S114-315, S114-316, S114-317, S114-317A, S114-317B, S114-319, S114-320

12 **V**, **OD** 79.88

*Neg. brushes. Brush set: HC-CARGO 140334.*

## 133334 Brush Gear

**Replacing:** 2130-4305

**Servicing:** S13-06A, S13-14, S13-18, S13-24, S13-27, S13-27A, S13-28, S13-31, S13-32, S13-32A, S13-55

12 **V**, **OD** 85.00

*Neg. brushes. Brush set: HC-CARGO 140377.*

## 133653 Brush Gear

**Replacing:** 2114-19008

**Servicing:** S114-440, S114-475, S114-475A, S114-486, S114-489

12 **V**, **OD** 64.00

*Neg. brushes. Brush set: HC-CARGO 140338.*

## 133730 Brush Gear

**Replacing:** 23378-10G100, 2240-3310, 2240-2310, 2240-1310, 2130-9305, 2130-93021, 2130-73022, 2130-73021

**Servicing:** S13-100, S13-101, S13-102, S13-104, S13-105, S13-105A, S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A

12 **V**, **OD** 64.85

*Neg. brushes. Brush set: HC-CARGO 140567.*



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**137121** Brush Gear

**Replacing:** 2114-73105, 2114-63104, 2114-53105, 2114-53104, 2114-23106

**Servicing:** S114-750, S114-751, S114-753, S114-758, S114-762, S114-762A, S114-762B, S114-765, S114-766, S114-766A, S114-767

12 **V**, **OD** 61.20

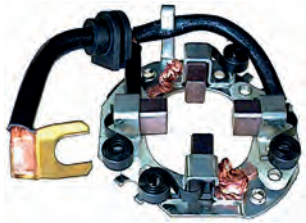
**Alternative no.:** 333647

**137653** Brush Gear

**Replacing:** 2114-23103

**Servicing:** S114-456, S114-556, S114-556A, S114-558

12 **V**, **OD** 66.00



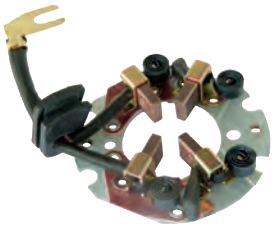
**137750** Brush Gear

**Replacing:** 2114-93102, 2114-83102, 2114-39008, 2114-23104, 2114-13103

**Servicing:** S114-364, S114-505, S114-505A, S114-507A, S114-509, S114-516, S114-516A, S114-517, S114-517C, S114-518, S114-519A

12 **V**, **OD** 62.90

*Brush set: HC-CARGO 140786.*



**139166** Brush Gear

**Replacing:** 2114-93104, 2114-83105

**Servicing:** S114-566, S114-568, S114-568A, S114-569, S114-569A, S114-570, S114-570A, S114-570B, S114-570C, S114-650, S114-650A

12 **V**, **OD** 69.85

**233637** Brush Gear

**Replacing:** 2240-4310

**Servicing:** S13-250, S13-550, S25-163A, S25-163B, S25-163C, S25-163E, S25-163F, S25-163G, S25-167, S25-168, S25-168A, S25-171

24 **V**

*Neg. brushes. Brush set: HC-CARGO 140567.*

## Brush Gear Parts

### Brush Springs

Pkg. 10

**133731** Brush Spring

**Replacing:** 2130-8313, 2130-6313

**Servicing:** S114-348, S114-348A, S13-100, S13-101, S13-102, S13-104, S13-105, S13-105A, S13-106, S13-106A, S13-106B, S13-106C

**Length** 25.85

Pkg. 10

**138709** Brush Spring

**Replacing:** 2114-4317, 2114-2317

**Servicing:** S114-750, S114-751, S114-753, S114-755, S114-756, S114-758, S114-762, S114-762A, S114-762B, S114-765, S114-766

**OD** 8.80, **Length** 18.50

Pkg. 10

**231298** Brush Spring

**Replacing:** 2114-9314, 2114-4314

**Servicing:** S108-63, S108-78, S108-89, S114-121N, S114-132, S114-136, S114-146, S114-164, S114-172E, S114-173, S114-173B, S114-173E

**OD** 11.55, **Length** 22.90

Pkg. 4

**231487** Brush Spring

**Replacing:** 2240-1314, 2130-5313

**Servicing:** S13-138, S13-138A, S13-160, S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A

**OD** 14.20, **Length** 25.65

## Brush Sets

**140334** Brush Set

**Replacing:** 94021409, 94021408, 9402-1409, 9402-1408, 2114-83124, 2114-8312, 2114-63124/83124, 2114-63124

**Servicing:** S108-77, S108-78, S114-103, S114-108L, S114-121N, S114-122N, S114-126M, S114-132, S114-136, S114-139, S114-146

12 **V**, **Length** 18.00, **Lead length** 33.00, **Height** 11.00, **Thickness** 7.00

**140335** Brush Set

**Replacing:** 2114-1315

12 **V**, **Length** 17.20, **Height** 18.90, **Thickness** 6.45

**140336** Brush Set

**Replacing:** 2144-83121, 2114-93122/83121, 2114-93121/83121, 2114-93121/13123, 2114-8313, 2114-6313, 2114-5312

**Servicing:** S108-116, S108-34B, S108-61, S108-61A, S108-61B, S108-61C, S108-61D, S108-61E, S108-61F, S108-61G, S108-63, S108-66

12 **V**, **Length** 16.00, **Lead length** 36.50, **Height** 11.00, **Thickness** 7.00

## 140337 Brush Set

**Replacing:** 2250-4322, 2250-2323/4322, 2250-2323, 2250-1324

**Servicing:** S13-15, S13-61, S24-64B, S24-64E, S25-100A, S25-103, S25-106A, S25-117D, S25-120, S25-120A, S25-121A, S25-128, S25-129A

12 **V**, **Length** 19.50, **Lead length** 51.00, **Height** 20.00, **Thickness** 9.00

## 140338 Brush Set

**Replacing:** 2114-69002/59002, 2114-69002, 2114-6315, 2114-59002/69002, 2114-59002/6315, 2114-59002, 2114-33123

**Servicing:** S114-170B, S114-172D, S114-173B, S114-173E, S114-173F, S114-174, S114-180B, S114-181, S114-202, S114-232A, S114-233A

12 **V**, **Length** 16.00, **Lead length** 43.50, **Lead length 2** 33.50, **Height** 14.00, **Thickness** 7.00

## 140339 Brush Set

**Replacing:** 2120-9311, 2120-7312/9311, 2120-7312

**Servicing:** S12-19C, S12-41A, S12-59, S12-63, S12-63A, S12-63B, S12-63C, S12-68, S12-68B, S12-68D, S12-77A, S12-78, S12-79, S12-82

12 **V**, **Length** 22.00, **Lead length** 43.50, **Height** 15.00, **Thickness** 8.00

## 140340 Brush Set

**Replacing:** 2108-6306, 2108-6305, 2108-4306, 2108-4305, 2108-2306, 2108-2305, 1811-1631

**Servicing:** S108-56, S114-150, S114-151, S114-156A, S114-91

12 **V**, **Length** 14.00, **Lead length** 33.60, **Height** 16.00, **Thickness** 6.00

## 140341 Brush Set

**Replacing:** 2114-6312, 2114-2313

**Servicing:** S114-152

12 **V**, **Length** 16.00, **Lead length** 32.00, **Height** 16.00, **Thickness** 7.00

Pkg. 10

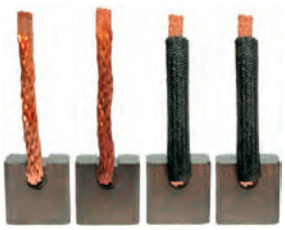
## 140376 Brush Set

**Replacing:** 2120-7311, 2120-5312/7311, 2120-5312, 2120-4311, 2120-1312, 2120-1311

**Servicing:** S12-19, S12-19K, S12-23, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-59

12 **V**, **Length** 22.30, **Lead length** 35.00, **Height** 14.25, **Thickness** 7.85

Pkg. 5



## 140377 Brush Set

**Replacing:** 2130-8312, 2130-23111, 2120-6312/8311, 2120-6312/2130-7311

**Servicing:** S12-48, S12-52, S12-58, S12-61, S12-62, S12-84, S12-85, S12-87, S13-06A, S13-25, S13-27, S13-27A, S13-28, S13-31

12 **V**, **Length** 22.00, **Lead length** 51.00, **Height** 20.00, **Thickness** 9.00

## 140378 Brush Set

**Replacing:** 2250-8323, 2250-7323, 2250-6323, 2250-5323, 2250-5322, 2250-3323, 2130-9312, 2130-8311

**Servicing:** S12-38A, S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-41B, S13-45A

12-24 **V**, **Length** 18.00, **Lead length** 44.50, **Height** 25.00, **Thickness** 8.00

## 140379 Brush Set

**Replacing:** 2240-1312, 2240-1311/1312, 2240-1311, 2130-7312, 2130-3315, 2130-13111/7312, 2130-13111/3315

**Servicing:** S13-101, S13-102, S13-105, S13-105A, S13-129, S13-136, S13-160, S13-329, S13-529, S13-556, S13-556A, S13-62, S13-62B

12 **V**, **Length** 15.80, **Lead length** 36.00, **Lead length 2** 52.00, **Height** 19.00, **Thickness** 7.00

## 140567 Brush Set

**Replacing:** 2130-73112, 2130-73111, 2130-63112, 2130-53112, 2130-43112, 2130-43111, 2130-23112/73111

**Servicing:** S13-100, S13-102, S13-104, S13-105, S13-105A, S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-109

12 **V**, **Length** 16.00, **Lead length** 37.00, **Height** 19.00, **Thickness** 7.00

## 140595 Brush Set

**Replacing:** 2130-7311, 2130-4312/7311, 2130-4312, 2130-4311, 2130-3311, 2130-2312, 2130-1312/3311, 2130-1312

**Servicing:** S13-06, S13-06A, S13-10, S13-14, S13-18, S13-28, S13-29, S13-32, S13-32A, S13-55

12 **V**, **Length** 22.00, **Lead length** 33.00, **Lead length 2** 39.50, **Height** 19.50, **Thickness** 9.00

## 140597 Brush Set

**Replacing:** 2130-9311, 2130-6312/9311, 2130-6312

**Servicing:** S13-49A

12 **V**, **Length** 18.00, **Lead length** 44.50, **Height** 19.00, **Thickness** 8.00



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## 140781 Brush Set

**Replacing:** 2114-73123/83123

**Servicing:** S114-456, S114-556, S114-556A, S114-557, S114-557A, S114-558

12 **V**, **Length** 16.00, **Lead length** 89.50, **Lead length 2** 25.75, **Height** 11.00, **Thickness** 4.50

## 140786 Brush Set

**Replacing:** 2114-93122, 2114-83121/93122, 2114-83121/73122, 2114-73122, 2114-63123/83121, 2114-63123

**Servicing:** S114-364, S114-418, S114-419, S114-419A, S114-424, S114-424A, S114-501, S114-501A, S114-505, S114-505A, S114-509

12 **V**, **Length** 16.00, **Lead length** 28.00, **Lead length 2** 143.00, **Height** 11.00, **Thickness** 7.00

## 140852 Brush Set

**Replacing:** 2114-83125, 2114-63125, 2114-53125, 2114-43125/83125, 2114-43125/63125, 2114-43125/53125

**Servicing:** S114-750, S114-751, S114-752, S114-753, S114-755, S114-756, S114-758, S114-762, S114-762A, S114-762B, S114-765

12 **V**, **Length** 17.00, **Lead length** 107.00, **Lead length 2** 34.50, **Height** 14.00, **Thickness** 4.50

## 140922 Brush Set

**Replacing:** 2114-43127/33127, 2114-43127, 2114-33127/43127, 2114-33127

**Servicing:** S114-800, S114-800A, S114-800B, S114-801A, S114-801B, S114-801C, S114-801D, S114-802A, S114-806, S114-806A, S114-808

12 **V**, **Length** 15.50, **Lead length** 32.00, **Lead length 2** 121.50, **Height** 14.00, **Thickness** 4.50

**Alternative no.:** 142333

## 140933 Brush Set

**Replacing:** 2114-93121, 2114-83124/83121, 2114-83121, 2114-59003, 2114-23124/83121, 2114-23124/6313, 2114-23124

**Servicing:** S114-364, S114-398, S114-418, S114-419, S114-424, S114-435, S114-435A, S114-435B, S114-435D, S114-435E, S114-505A

12 **V**, **Length** 16.00, **Lead length** 123.50, **Lead length 2** 32.32, **Height** 11.00, **Thickness** 7.00

## 140934 Brush Set

**Replacing:** 2114-83122/83121, 2114-83122, 2114-83121/83122

**Servicing:** S114-516, S114-516A, S114-528, S114-528A

12 **V**, **Length** 16.00, **Lead length** 82.00, **Lead length 2** 72.00/27.00, **Height** 11.00, **Thickness** 7.00

## 140953 Brush Set

**Replacing:** 2114-63126, 2114-53126/63126, 2114-53126

**Servicing:** S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E, S114-804, S114-804A

12 **V**, **Length** 16.75, **Lead length** 98.00, **Lead length 2** 33.00/30.00, **Height** 13.80, **Thickness** 4.50

Pkg. 5

## 140986 Brush Set

**Replacing:** 2114-83126, 2114-83123, 2114-73126, 2114-73125/83123, 2114-73125, 2114-73123, 2114-72125/83123

**Servicing:** S114-435F, S114-435G, S114-568, S114-568A, S114-569, S114-569A, S114-570, S114-570A, S114-570B, S114-570C, S114-650

12 **V**, **Length** 16.00, **Lead length** 58.00, **Lead length 2** 32.00/25.00, **Height** 11.00, **Thickness** 4.50

Pkg. 5

## 141023 Brush Set

**Replacing:** 2280-1313, 2280-1312/1313, 2280-1312

**Servicing:** S28-23B, S28-25

24 **V**, **Length** 22.50, **Lead length** 69.00, **Height** 25.00, **Thickness** 10.00

# Bushings

Pkg. 10

## 140306 Bushing

**Replacing:** 2114-1452

**Servicing:** S114-126M, S114-131, S114-139, S114-141, S114-149, S114-151, S114-155, S114-156A, S114-171, S114-173, S114-173B

**ID** 17.50, **OD** 20.10, **Length** 7.60

Pkg. 10

## 140307 Bushing

**Replacing:** 2114-1605

**Servicing:** S12-43

**ID** 12.00, **OD** 16.30, **Length** 22.50



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Pkg. 10

**140308** Bushing

**Replacing:** 2114-2302

**ID** 13.80, **OD** 19.20, **Length** 20.15

Pkg. 10

**140309** Bushing

**Replacing:** 2106-1601

**Servicing:** S114-131, S114-152, S114-155, S114-156A

**ID** 11.55, **OD** 15.10, **Length** 14.00

Pkg. 10

**140310** Bushing

**Replacing:** 2114-5661, 2114-4661

**Servicing:** S108-63, S108-89, S114-103, S114-146, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E

**ID** 12.52, **OD** 16.00, **Length** 15.00

**Alternative no.:** B140310

Pkg. 10

**140311** Bushing

**Replacing:** 2270-3502, 2114-9352, 2114-8661, 2114-5352, 2114-1601

**Servicing:** S108-63, S108-78, S108-89, S114-103, S114-141, S114-146, S114-149, S114-152, S114-155, S114-160, S114-160A, S114-160B

**ID** 12.53, **OD** 16.05, **Length** 12.00

**Alternative no.:** B140311

Pkg. 10

**140312** Bushing

**Replacing:** 2608-8401

**ID** 28.30, **OD** 35.70, **Length** 10.00

Pkg. 10

**140313** Bushing

**Replacing:** 2130-2601, 2130-1310

**Servicing:** S12-41A, S12-48, S12-52, S12-58, S12-59, S12-61, S12-62, S12-87, S12-88, S13-06A, S13-138, S13-138A, S13-14, S13-18

**ID** 14.00, **OD** 18.00, **Length** 17.00

**Alternative no.:** B140313

Pkg. 10

**140314** Bushing

**Replacing:** 2114-6601, 2114-3601

**Servicing:** S114-103, S114-121N, S114-122N, S114-126M, S114-132, S114-136, S114-139

**ID** 11.07, **OD** 15.08, **Length** 15.00

**Alternative no.:** B140314

Pkg. 10

**140315** Bushing

**Replacing:** 2114-1352

**Servicing:** S114-103, S114-121N, S114-122N, S114-126M, S114-132, S114-136, S114-139, S114-151, S114-181, S114-301, S114-91

**ID** 11.52, **OD** 15.08, **Length** 13.00

Pkg. 10

**140316** Bushing

**Replacing:** 2120-2601

**Servicing:** S12-19, S12-19C, S12-19K, S12-23, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-59, S12-63, S12-63A, S12-63B, S12-63C

**ID** 14.00, **OD** 18.00, **Length** 20.00

**Alternative no.:** B140316

Pkg. 10

**140317** Bushing

**Replacing:** 2120-4401

**Servicing:** S114-232, S114-237, S12-19, S12-19C, S12-19K, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-48, S12-52, S12-58, S12-59

**ID** 20.35, **OD** 26.50, **Length** 12.50

**Alternative no.:** B140317

Pkg. 10

**140318** Bushing

**Replacing:** 2120-4302

**Servicing:** S12-19, S12-19C, S12-19K, S12-23, S12-24A, S12-32, S12-34, S12-41A, S12-47, S12-59, S12-63, S12-63A, S12-63B, S12-63C

**ID** 15.03, **OD** 20.00, **Length** 16.00

Pkg. 10

**140320** Bushing

**Replacing:** 23319-M0111

**ID** 11.06, **OD** 13.03, **Length** 13.00

**Alternative no.:** B140320



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#Available while stock last, * Program development.

Pkg. 10

## 140489 Bushing

**Replacing:** 2250-3601

**Servicing:** S13-68, S13-68A, S13-68C, S13-76, S13-76A, S13-86, S25-110F, S25-110G, S25-110K, S25-110L, S25-110M, S25-125A, S25-125B

**ID** 16.05, **OD** 21.10, **Length** 16.90

Pkg. 10

## 140572 Bushing

**ID** 27.16, **OD** 31.14, **Length** 5.63

**Alternative no.:** B140572

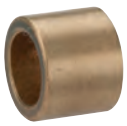
Pkg. 10

## 140584 Bushing

**ID** 12.62, **OD** 14.00, **Length** 19.30

**Alternative no.:** B140584

Pkg. 10



## 140660 Bushing

**Replacing:** 2114-9661

**Servicing:** S114-456, S114-556

**ID** 11.17, **OD** 15.86, **Length** 12.70

**Alternative no.:** B140660

Pkg. 10

## 140669 Bushing

**Replacing:** 2114-14101

**Servicing:** S114-501, S114-501A, S114-505, S114-505A, S114-507A, S114-509, S114-516, S114-516A, S114-517, S114-517C, S114-518

**ID** 25.03, **OD/collar** 39.00, **OD** 32.07, **Length** 20.00, **Height/collar** 3.50

**Alternative no.:** B140669

Pkg. 10

## 140775 Bushing

**ID** 14.02, **OD** 15.60, **Length** 16.00

**Alternative no.:** B140775

Pkg. 5

## 140805# Bushing

**Replacing:** 2108-1821

**Servicing:** S108-107, S108-108, S108-111, S108-113, S108-114, S108-116, S108-56, S108-57, S108-61, S108-61A, S108-61B, S108-61C

**ID** 16.09, **OD** 20.07, **Length** 11.00

Pkg. 10

## 140869 Bushing

**Servicing:** S114-505, S114-509, S114-517, S114-517C, S114-526, S114-526A, S114-526B, S114-528A, S114-535, S114-705, S114-705A

**ID** 18.12, **OD** 22.10, **Length** 7.10

**Alternative no.:** B140869

Pkg. 10

## 140870 Bushing

**Replacing:** 2114-1353

**Servicing:** S114-141, S114-149, S114-150, S114-160A, S114-160H, S114-161B, S114-161E, S114-171, S114-172A, S114-173, S114-174

**ID** 12.04, **OD** 15.56, **Length** 5.50

**Alternative no.:** B140870

Pkg. 10

## 140905# Bushing

**Servicing:** S114-432A, S114-452, S114-452A, S114-456, S114-456A, S114-460, S114-460A, S114-460B, S114-464, S114-464A

**ID** 20.01, **OD** 25.00, **Length** 10.80

**Alternative no.:** B140905

Pkg. 10

## 140909# Bushing

**Servicing:** S114-232, S114-232A

**ID** 21.67, **OD** 26.46, **Length** 12.55

**Alternative no.:** B140909

Pkg. 10

## 140927 Bushing

**Replacing:** 2114-44101

**Servicing:** S114-520A, S114-520B, S114-750, S114-751, S114-752, S114-755, S114-756, S114-758, S114-762, S114-762A, S114-762B

**ID** 18.12, **OD** 22.04, **Length** 6.79

**Alternative no.:** B140927

Pkg. 10

## 140950 Bushing

**Replacing:** 2114-24101

**Servicing:** S114-501, S114-501A, S114-505, S114-505A, S114-507A, S114-509, S114-516, S114-516A, S114-517, S114-517C, S114-518

**ID** 15.70, **OD** 19.10, **Length** 7.00

Pkg. 10

## 140992 Bushing

**Servicing:** S114-762, S114-762A, S114-762B

**ID** 6.04, **OD** 9.81, **Length** 7.04

Pkg. 10

## 140993 Bushing

**Servicing:** S114-808, S114-808A, S114-808B

**ID** 6.16, **OD** 10.00, **Length** 8.91

**Alternative no.:** B140993

Pkg. 10

## 140994 Bushing

**Servicing:** S114-800, S114-800A, S114-800B, S114-802A, S114-806, S114-806A, S114-808, S114-808A, S114-808B, S114-829, S114-829A

**ID** 6.84, **OD** 11.00, **Length** 8.00

**Alternative no.:** B140994

Pkg. 10

## 140995 Bushing

**Replacing:** 2114-9601

**Servicing:** S114-430A, S114-430B, S114-430C, S114-431A, S114-431B, S114-431C, S114-432A, S114-439, S114-452, S114-452A, S114-456

**ID** 20.12, **OD** 25.12, **Length** 9.25

**Alternative no.:** B140995

Pkg. 10

## 141082 Bushing

**ID** 22.07, **OD** 26.00, **Length** 5.19

Pkg. 10

## 141132 Bushing

**Servicing:** S114-526, S114-526B, S114-528A, S114-757, S114-869, S114-925

**ID** 6.15, **OD** 10.00, **Length** 6.85

Pkg. 10

## 141133 Bushing

**Servicing:** S108-28H, S108-28K, S108-56, S108-76, S108-76A

**ID** 9.20, **OD** 13.08, **Length** 13.30

Pkg. 10

## 141134 Bushing

**Servicing:** S114-753, S114-753C, S114-755, S114-756, S114-758, S114-762, S114-762A, S114-762B, S114-766A, S114-767, S114-775

**ID** 8.15, **OD** 11.00, **Length** 8.25

Pkg. 10

## 141135 Bushing

**Servicing:** S114-203, S114-613, S114-613A, S114-901, S114-901A, S114-901B, S114-905, S114-906, S114-938, S114-943A, S114-948

**ID** 12.58, **OD** 16.03, **Length** 11.90

Pkg. 10

## 141136 Bushing

**Servicing:** S114-161B, S114-161E, S114-161F, S114-182G, S114-315, S114-316, S114-317, S114-317A, S114-318, S114-318A, S114-345

**ID** 12.55, **OD** 14.00, **Length** 19.00

Pkg. 10

## 141138 Bushing

**Servicing:** S114-439A, S114-441A, S114-441B, S114-461, S114-484

**ID** 20.20, **OD** 25.10, **Length** 10.65



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Pkg. 10

## 141139 Bushing

**Servicing:** S114-503A, S114-516, S114-517C, S114-519A, S114-520B, S114-525, S114-527, S114-527A, S114-527B, S114-528, S114-528A

**ID** 18.21, **OD** 22.05, **Length** 7.00

Pkg. 10

## 141140 Bushing

**Servicing:** S15-02, S15-03

**ID** 18.05, **OD** 24.05, **Length** 19.25

Pkg. 10

## 141198 Bushing

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D

**ID** 12.10, **OD** 16.03, **Length** 5.35

Pkg. 100

## B140310 Bushing

**Replacing:** 2114-5661, 2114-4661

**Servicing:** S114-229F, S114-235

**ID** 12.52, **OD** 16.00, **Length** 15.00

**Alternative no.:** 140310

Pkg. 100

## B140311 Bushing

**Replacing:** 2114-9352, 2114-8661, 2114-5352, 2114-1601

**Servicing:** S114-229F, S114-235, S114-317, S114-345, S114-525A, S114-653B, S114-808D, S114-829C, S114-829D, S114-871, S114-875

**ID** 12.53, **OD** 16.05, **Length** 12.00

**Alternative no.:** 140311

Pkg. 100

## B140313 Bushing

**Replacing:** 2130-2601, 2130-1310

**Servicing:** S12-84, S12-85, S13-41C, S25-106, S25-121

**ID** 14.00, **OD** 18.00, **Length** 17.00

**Alternative no.:** 140313

Pkg. 100

## B140314 Bushing

**Replacing:** 2114-6601, 2114-3601

**ID** 11.07, **OD** 15.08, **Length** 15.00

**Alternative no.:** 140314

Pkg. 100

## B140316 Bushing

**Replacing:** 2120-2601

**Servicing:** S12-19KB

**ID** 13.99, **OD** 18.03, **Length** 19.90

**Alternative no.:** 140316

Pkg. 100

## B140317 Bushing

**Replacing:** 2120-4401

**Servicing:** S12-19KB, S12-84, S12-85, S25-106, S25-121

**ID** 20.33, **OD** 26.53, **Length** 12.40

**Alternative no.:** 140317

Pkg. 100

## B140584 Bushing

**Replacing:** 140584

**ID** 12.62, **OD** 14.00, **Length** 19.30

**Alternative no.:** 140584

Pkg. 100

## B140660 Bushing

**Replacing:** 2114-9661

**ID** 11.17, **OD** 15.86, **Length** 12.75

**Alternative no.:** 140660

Pkg. 100

## B140669 Bushing

**Replacing:** 2114-14101

**ID** 25.02, **OD/collar** 39.00, **OD** 32.10, **Length** 19.80, **Height/collar** 3.45

**Alternative no.:** 140669

Pkg. 100

**B140775** Bushing
**Replacing:** 140775
**ID** 14.02, **OD** 15.60, **Length** 16.00
**Alternative no.:** 140775

Pkg. 100

**B140869** Bushing
**Replacing:** 140869
**ID** 18.12, **OD** 22.10, **Length** 7.00
**Alternative no.:** 140869

Pkg. 100

**B140870** Bushing
**Replacing:** 2114-1353
**Servicing:** S114-844A, S114-871, S114-947, S114-947A
**ID** 12.04, **OD** 15.56, **Length** 5.50
**Alternative no.:** 140870

Pkg. 100

**B140927** Bushing
**Replacing:** 2114-44101
**ID** 18.11, **OD** 22.06, **Length** 6.60
**Alternative no.:** 140927

Pkg. 100

**B140993** Bushing
**Replacing:** 140993
**ID** 6.16, **OD** 10.00, **Length** 8.91
**Alternative no.:** 140993

Pkg. 100

**B140994** Bushing
**Replacing:** 140994
**ID** 6.84, **OD** 11.00, **Length** 8.00
**Alternative no.:** 140994

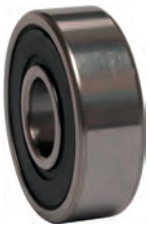
Pkg. 100

**B140995** Bushing
**Replacing:** 2114-9601
**ID** 20.12, **OD** 25.12, **Length** 9.25
**Alternative no.:** 140995

## Bearings

### Ball Bearings

Pkg. 10



**140222** **FAG** 608-2RS-C3 Ball Bearing
**Replacing:** 2130-3509, 2114-55002, 2114-45511, 2114-15511, 2114-15502
**Servicing:** S114-252F, S114-253B, S114-254B, S114-254C, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C
**ID** 8.00, **OD** 22.00, **Height** 7.00,
**Alternative no.:** 142279, 333106

CAR GO **High Performance** Pkg. 10

**140225** 6903-2RS-P Ball Bearing
**Replacing:** 2114-35511, 2114-25511, 2114-25502
**Servicing:** S114-252F, S114-253B, S114-254B, S114-254C, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C
**ID** 17.00, **OD** 30.00, **Height** 7.00

CAR GO **High Performance**

**140226** 6904-2RS-P Ball Bearing
**Replacing:** 2130-5509, 2114-95502, 2114-75502, 2114-35502
**Servicing:** S114-252F, S114-253B, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C, S114-264, S114-290B
**ID** 20.00, **OD** 37.00, **Height** 9.00

CAR GO **High Performance**

**140227** 6905-2RS-P Ball Bearing
**Replacing:** 2130-3302
**Servicing:** S13-107A, S13-118, S13-138, S13-138A, S13-33, S13-33A, S13-33B, S13-34A, S13-37, S13-37B, S13-38A, S13-38B, S13-40
**ID** 25.00, **OD** 42.00, **Height** 9.00

Pkg. 10

**140271** **FAG** 6000-C-2HRS-C3 Ball Bearing
**Replacing:** 6000J
**Servicing:** LR1110-705, LR1110-705B, LR1110-709, LR1110-723B, LR140-703, LR140-704, LR140-705, LR140-707, LR140-708, LR140-708C
**ID** 10.00, **OD** 26.00, **Height** 8.00,
**Alternative no.:** 142277, 333099



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## Needle Bearings

Pkg. 5

**140457** 5★ Needle Bearing
**Replacing:** 2130-3451
**Servicing:** S13-49A
**ID** 20.00, **OD** 26.00, **Height** 12.00

Pkg. 5

**140495** 5★ Needle Bearing
**Replacing:** 2250-1451
**Servicing:** S13-33, S13-33A, S13-33B, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-45A, S13-45B, S13-68, S13-86
**ID** 15.00, **OD** 21.00, **Height** 12.00

Pkg. 5

**140972** 5★ Needle Bearing
**Replacing:** 2114-1411
**ID** 22.00, **OD** 28.00, **Height** 16.00

# Sundry Parts

## C.E. Covers

Pkg. 5

**134477** Cap
**Replacing:** 2114-4862, 2114-48012, 2114-28012
**Servicing:** S114-103, S114-160, S114-160B, S114-160D, S114-160G, S114-163, S114-163E, S114-163F, S114-170B, S114-170E, S114-172A
**OD** 43.10, **Height** 9.20

**137834**# C.E. Bracket
**Replacing:** 2130-33012
**Servicing:** S13-38A, S13-38B, S13-45A, S13-45B, S25-110G, S25-110K, S25-110M, S25-164A
**ID** 85.00

## O-rings

Pkg. 10

**134485** O-ring
**Servicing:** S13-289, S13-289A, S13-302, S13-302A, S13-302B, S13-331, S13-531
**ID** 4.00, **Thickness** 2.00

Pkg. 10

**137038** O-ring
**Servicing:** LR1100-501, LR1100-501B, LR1100-502, LR1100-502B, LR1100-502C, LR1100-502D, LR1100-502E, LR1100-502F, LR1100-502G
**ID** 26.00, **Thickness** 2.00

Pkg. 5

**231391** O-ring
**Replacing:** 2240-6901, 2114-88004
**Servicing:** S114-254B, S114-254D, S114-258C, S114-268, S114-290B, S114-296A, S114-322A, S114-344, S114-367, S114-374B, S114-393
**ID** 75.00, **Thickness** 1.00

## Thru Bolts

Pkg. 2

**139594** Through Bolt
**Replacing:** 2130-5820
**Servicing:** S13-138, S13-138A, S13-33, S13-33A, S13-33B, S13-37, S13-37B, S13-38A, S13-38B, S13-41, S13-41A, S13-41D, S13-45A
**Total length** 149.60, **Length/rear collar** 145.55, **Thread length** 27.30, **Thread size** M5

Pkg. 2

**230715** Through Bolt
**Replacing:** 2130-9820
**Servicing:** S114-520A, S114-520B, S13-100, S13-102, S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-109
**Total length** 144.90, **Thread size** M6

Pkg. 2

**233603** Through Bolt
**Replacing:** 2120-6810
**Servicing:** S12-19, S12-19C, S12-19K, S12-48, S12-52, S12-58, S12-62, S12-63, S12-63A, S12-63B, S12-63C, S12-68, S12-68B, S12-68D
**Total length** 169.00, **Length/rear collar** 164.35, **Thread length** 28.00, **Thread size** M6

## Various

**132847** Stop Collar Kit
**Replacing:** 2250-6105
**Servicing:** S12-48, S12-52, S12-58, S12-62, S12-88, S13-25, S13-32, S13-84, S13-84B, S24-64B, S24-64E, S25-106A, S25-120, S25-120A



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**133609** Stop Collar Kit

**Replacing:** 2114-7155, 2114-3158

**Servicing:** S114-146, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G, S114-160H

**ID** 12.52, **OD** 17.09, **Height** 4.62

**133611** Stop Collar Kit

**Replacing:** 2114-29006

**Servicing:** S114-252F, S114-253B, S114-254D, S114-255A, S114-256B, S114-257, S114-257G, S114-257H, S114-258C, S114-264, S114-290B

Pkg. 10

**134227** DP Washer

**ID** 27.00, **OD** 51.90, **Thickness** 3.15, **Material** Steel

Pkg. 10

**134231** DP Washer

**ID** 22.00, **OD** 42.00, **Thickness** 3.00, **Material** Steel

Pkg. 10

**134232** DP Washer

**ID** 22.55, **OD** 41.85, **Thickness** 0.60

**135187**# Stop Collar Kit

**Replacing:** 2240-1900

**Servicing:** S13-107A, S13-160, S14-102, S14-102A, S14-102B, S14-104, S14-104B, S24-03A, S24-03B, S24-03C, S24-05A, S24-05B, S24-07

Pkg. 10

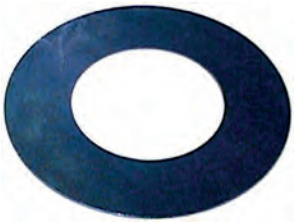
**135188** Cap

**Replacing:** 2130-2509

**Servicing:** S13-106A, S13-106B, S13-106C, S13-106E, S13-107, S13-107A, S13-111, S13-112, S13-113, S13-114, S13-117, S13-117A

**ID** 22.10, **OD** 23.20, **Height** 9.50

Pkg. 10



**135360** DP Washer

**ID** 29.00, **OD** 52.00, **Thickness** 0.50, **Material** Steel

**135478** Washer Kit

**Replacing:** 2114-8110

**Servicing:** D/D TYPES, S108-63, S108-89, S114-146, S114-152, S114-155, S114-160, S114-160A, S114-160B, S114-160D, S114-160E

**ID** 12.85, **OD** 27.50, **Thickness** 2.00/0.30, **Material** Steel

Pkg. 10

**135492** Connection

**Servicing:** S114-519A, S114-520A, S114-520B, S114-525A, S114-528, S114-528A, S114-530, S114-533, S114-534, S114-535, S114-569

Pkg. 10

**135522** Washer

**ID** 19.50, **OD** 33.00, **Thickness** 0.50, **Material** Fiber

**135953** Bearing Plate

**Replacing:** 2114-38007

**Servicing:** S114-254B, S114-254D, S114-258C, S114-268, S114-290, S114-290A, S114-290B, S114-296A, S114-322, S114-322A, S114-344

**ID** 31.20, **OD** 75.30, **Thickness** 24.45, **No./mount. holes** 3, **Gasket** w/o



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## 135975 Dust Cover Kit

**Replacing:** 2114-6963, 2114-5963, 2114-3963

**Servicing:** S114-103, S114-146, S114-160, S114-160B, S114-160D, S114-160E, S114-160F, S114-160G, S114-162D, S114-163, S114-163E

## 136111 Washer/ Seal Kit

**Replacing:** 2130-6913, 2130-3913

**Servicing:** S13-104, S13-105, S13-105A, S13-107, S13-114, S13-129, S13-131, S13-329, S13-529, S13-66, S13-66A, S13-92A

**ID** 28.90, **OD** 52.00, **Thickness** 0.80, **Material** Steel

## 137301 Bearing Plate

**Replacing:** 2130-5615, 2130-4615

**Servicing:** S13-104, S13-106A, S13-106B, S13-106C, S13-106E, S13-111, S13-112, S13-112A, S13-113, S13-114, S13-114A, S13-117

**ID** 38.00, **OD** 75.20, **Thickness** 16.50, **No./mount. holes** 3, **Gasket** w/o

## 137302 Dust Cover Kit

**Replacing:** 2130-7913

**Servicing:** S13-106A, S13-106B, S13-106C, S13-106E, S13-122, S13-126, S13-126A, S13-127, S13-127A, S13-127C, S13-137A

Pkg. 5

## 137306 Rubber Boot

**Replacing:** 2114-2742

**Servicing:** S108-91, S114-164, S114-164A, S114-225, S114-228, S114-230, S114-230A, S114-235, S114-235A, S114-235B, S114-257

**ID** 22.35, **OD** 25.15, **Length** 28.50

Pkg. 10

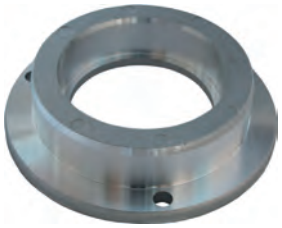
## 139207 Washer

**ID** 22.00, **OD** 40.00, **Thickness** 3.00, **Material** Steel

Pkg. 10

## 139208 Clutch Washer

**ID** 22.85, **OD** 39.25, **Thickness** 0.50, **Material** Steel

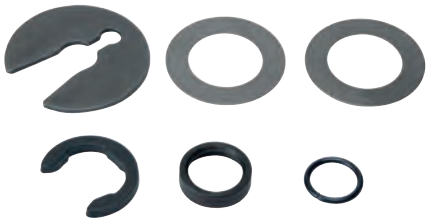


## 139276# Bearing Plate

**Replacing:** 2130-2615

**Servicing:** S114-357, S114-357A, S114-357B, S114-357C, S114-367, S114-395A, S114-471, S114-471A, S114-472, S114-472A, S114-482

**ID** 37.50, **Thickness** 17.00, **No./mount. holes** 3



## 139664 Washer Kit

**Replacing:** 2114-39505

**Servicing:** S114-769, S114-769A, S114-800, S114-800A, S114-800B, S114-800C, S114-801A, S114-801B, S114-801C, S114-801D, S114-801E

## 230246 Rubber/washer Kit

**Replacing:** 2114-88504

**Servicing:** S114-800, S114-800A, S114-800B, S114-801A, S114-801B, S114-801C, S114-801D, S114-802A, S114-804, S114-804A, S114-805

## 230714 Rubber/washer Kit

**Replacing:** 2130-3917

**Servicing:** S13-122, S13-127, S13-127A, S13-127C, S13-212, S13-213, S13-213A, S13-307A, S13-322, S13-322A, S13-326, S13-327

## 231286 Bearing Plate

**Replacing:** 2240-3615

**Servicing:** S24-03A, S24-03B, S24-03C, S24-13, S25-161

**ID** 46.60, **OD** 92.00/70.00/52.20, **Thickness** 17.20, **No./mount. holes** 3, **Gasket** w/o



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 4

## 231297 Screw

**Replacing:** 2114-3215

**Servicing:** S108-111, S108-63, S108-78, S108-89, S114-151, S114-152, S114-155, S114-160A, S114-160B, S114-160D, S114-160E

**Thread** M8, **Thread length** 6.00, **Slot type** Phillips, Pozidriv, **Countersink** Yes

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Pkg. 5

## 232593 Rubber Drain

**Servicing:** S114-516, S114-516A, S114-525, S114-525A, S114-528, S114-528A, S25-110G, S25-110K, S25-110M, S25-164A

**ID** 6.20, **OD** 7.85, **Length** 43.75

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## 233541# Connection

**Servicing:** S114-306, S114-453, S114-454, S114-458, S114-471, S114-471A, S114-472A, S114-482, S114-509, S114-516, S114-516A

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Pkg. 10

## 234642 Washer Kit

**Servicing:** S114-829, S114-829A, S114-829B, S114-829C, S114-829D

**OD** 23.00, **Height** 18.50

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## 238659 Wire clip

**Servicing:** S114-750, S114-766A, S114-767, S114-769A, S114-800, S114-800A, S114-800B, S114-802A

**Length** 43.20, **Thickness** 20.00, **Width** 53.30, **Material** Steel, **Self adhesive** No

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## 330153 Gasket

**Servicing:** S114-902, S114-902A, S114-922, S114-922A, S114-955

**Length** 210.00, **Thickness** 7.88, **Width** 7.73, **Type** Starter

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O.E.M. names and numbers are used for reference purposes only.

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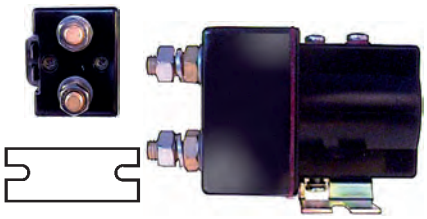
#Available while stock last, * Program development.

## Solenoids

### 24 V



**138685** Solenoid

**Replacing:** 3224

24 **V**, 100 **Amp**, **B+** M8,
**Total length** 93.80, **Height/B+** 20.25,
**Coil bolt** M8, **Coil bolt 2** 20.10,
**No./terminals** 4
*Silver contact.*

## Armatures

### 12 V

**130319** Armature
**Replacing:** 16.360.326
12 **V**, 3 **kW**, **Shaft length** 333.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR
*9 V: HC-CARGO 133515.*
**Alternative no.:** F032130319

**131075** Armature
**Replacing:** 16.360.325
12 **V**, 3 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR
*9 V: HC-CARGO 134285.*
**Alternative no.:** F032131075

**138212** Armature
**Replacing:** 16.360.402
**Servicing:** 11.130.179, 11.130.201, 11.130.254, 11.130.366, 11.130.402, 11.130.403, 11.130.408, 11.130.409, 11.130.410, 11.130.411
12 **V**, 3 **kW**, **Shaft length** 335.15, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

**138260** Armature
**Replacing:** 16.360.198
**Servicing:** 11.130.026, 11.130.074, 11.130.076, 11.130.127, 11.130.140, 11.130.190, 11.130.194, 11.130.198, 11.130.199, 11.130.200
12 **V**, 3 **kW**, **Shaft length** 335.00, **Core thickness** 74.80, **No./splines** 10, **Rotation** CR

**138670** Armature
**Replacing:** 16.360.277
**Servicing:** 11.130.117, 11.130.119, 11.130.123, 11.130.203, 11.130.222, 11.130.247, 11.130.250, 11.130.309, 11.130.319, 11.130.386
12 **V**, 2.4/2.7 **kW**, **Shaft length** 292.50, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

**230855** 5★ Armature
**Manufacturer:** Iskra/Mahle
**Replacing:** 16.361.103
**Servicing:** 11.130.665, 11.130.694, 11.130.709, 11.130.736, 11.130.795, 11.130.811, 11.130.889, 11.130.895, 11.130.995, AZJ3217
12 **V**, 2.7 **kW**, **Shaft length** 309.96, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

**233991** 5★ Armature
**Manufacturer:** Iskra/Mahle
**Replacing:** 16.361.897
**Servicing:** 11.130.979, 11.131.164
12 **V**, 2.7 **kW**, **Shaft length** 145.40, **Core thickness** 59.35, **No./teeth** 13

**333777** Armature
**Replacing:** 16.907.753
**Servicing:** 11.131.063, 11.131.108, 11.131.116, 11.131.221, 11.131.279, 11.131.315, 11.131.426, 11.131.605, 11.131.606, 11.131.696
12 **V**, 3 **kW**, **Shaft length** 148.50, **Core thickness** 60.00, **No./teeth** 10

### 24 V

**130119** Armature
**Replacing:** 16.360.322
24 **V**, 4 **kW**, **Shaft length** 333.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR
*18 V: HC-CARGO 137286.*

**130120** Armature
**Replacing:** 16.360.333
**Servicing:** 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.506, AZK5173, AZK5184, AZK5188, AZK5401, AZK5545
24 **V**, 5 **kW**, **Shaft length** 235.00, **Core thickness** 83.00
*Clutch housing: HC-CARGO 231369.*

**130320** Armature
**Replacing:** 16.360.068
24 **V**, 5.5 **kW**, **Shaft length** 270.00, **Core thickness** 83.00, **Rotation** CR
*Clutch housing: HC-CARGO 231369.*

**131116** Armature
**Replacing:** 16.360.576
24 **V**, 4.8 **kW**, **Shaft length** 366.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR



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#Available while stock last, * Program development.

**131309** Armature

**Replacing:** 16.360.324

24 **V**, 4 **kW**, **Shaft length** 337.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

*18 V: HC-CARGO 137287.*

**131311** 5★ Armature

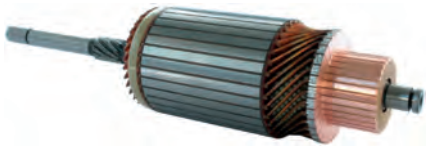
**Manufacturer:** Remy

**Replacing:** 16.360.539

**Servicing:** 11.139.030, 11.139.032, 11.139.107, AZK5189, AZK5191, AZK5456

24 **V**, 6.6 **kW**, **Shaft length** 256.00, **Core thickness** 83.00, **Rotation** CR

*Clutch housing: HC-CARGO 231369.*



**138831** Armature

**Replacing:** 16.360.703, 16.360.404

**Servicing:** 11.130.010, 11.130.364, 11.130.367, 11.130.407, 11.130.490, 11.130.491, 11.130.492, 11.130.534, 11.130.537, 11.130.595

24 **V**, 4 **kW**, **Shaft length** 335.00, **Core thickness** 75.00, **No./splines** 10, **Rotation** CR

## Field Coils

### 12 V

**130128** 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** 16.905.391

12 **V**, 3 **kW**, **Height** 133.50, **Width** 275.60, **Internal height** 85.60, **Inner width** 32.50

**130323** Field Coil

**Replacing:** 18.500.808

**Servicing:** 10.130.140, 10.130.141, 10.130.142, 10.130.146, 10.130.207, 11.130.009, 11.130.104, 11.130.116, 11.130.126, 11.130.320

12 **V**, 3 **kW**, **Height** 115.85, **Internal height** 73.60, **Inner width** 28.60

**130325** Field Coil

**Replacing:** 18.500.806, 18.500.803

**Servicing:** 10.130.141, 10.130.142, 10.130.207, 11.130.009, 11.130.104, 11.130.116, 11.130.126, 11.130.320, AZK5105, AZK5106

12 **V**, 3 **kW**, **Height** 116.00, **Internal height** 71.25, **Inner width** 28.65

**131134** 5★ Field Coil

**Manufacturer:** Bosch

**Replacing:** 16.905.386

12 **V**, 3 **kW**, **Height** 128.30, **Internal height** 87.00, **Inner width** 32.25

**230854** 5★ Field Coil

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.906.171, 16.905.171

**Servicing:** 10.201.032, 11.130.019, 11.130.117, 11.130.119, 11.130.123, 11.130.203, 11.130.222, 11.130.247, 11.130.248, 11.130.250

12 **V**, 2.7 **kW**, **Height** 113.75, **Internal height** 72.30, **Inner width** 31.25

### 24 V

**130127** Field Coil

**Replacing:** 16.905.384

24 **V**, 4 **kW**, **Height** 127.00, **Width** 277.00, **Internal height** 86.50, **Inner width** 33.00

**130130** 5★ Field Coil

**Manufacturer:** Remy

**Replacing:** 18.500.044

24 **V**, 5.5/6.5 **kW**, **Height** 152.25, **Width** 308.00, **Internal height** 100.50, **Inner width** 28.60

*Long.*

**130322** Field Coil

**Replacing:** 18.500.807

**Servicing:** 10.130.121, 10.130.123, 10.130.125, 11.130.005, 11.130.115, 11.130.606

24 **V**, 4 **kW**, **Height** 114.15, **Internal height** 72.25, **Inner width** 28.40

**131074** Field Coil

**Replacing:** 16.905.621

24 **V**, 4 **kW**, **Height** 127.60, **Internal height** 86.75, **Inner width** 33.30



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#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

## 231014 5★ Field Coil

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.905.693, 16.905.229

**Servicing:** 11.130.010, 11.130.030, 11.130.151, 11.130.339, 11.130.407, 11.130.491, 11.130.598, 11.130.672, 11.130.673, AZJ0602

24 **V**, 4 **kW**, **Height** 142.20, **Internal height** 102.30, **Inner width** 31.50

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# Solenoids

## 12 V

## 130281 Solenoid

**Replacing:** 16.670.127

12 **V**, **B+** Cable, **OD** 85.90, **Total length** 93.80

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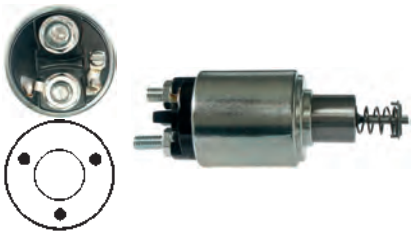

## 130302 Solenoid

**Replacing:** 16.908.491

**Servicing:** 11.130.793, 11.130.794, 11.131.092, AZF4522

12 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M4S, **ID/cover** 29.60, **OD** 61.00, **OD/cover** 53.45, **Total length** 164.30, **Height/B+** 23.00, **Width/kl. 30h** 16.00, **Width/kl. 50** 2.95, **Coil bolt** M10, **Coil bolt 2** 17.00, **No./terminals** 3

*Cap: HC-CARGO 131317.*

**Alternative no.:** 333137 5★, 130302Z

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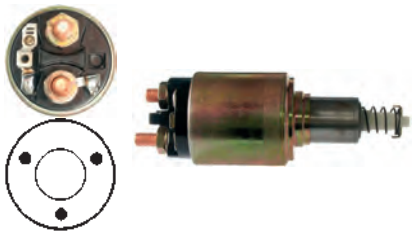

## 130806 Solenoid

**Replacing:** 16.670.124

12 **V**, **B+** M10, **Kl. 50** M4, **ID/cover** 30.45, **OD** 61.20, **OD/cover** 53.50, **Total length** 162.65, **Height/B+** 21.85, **Width/kl. 50** 3.65, **Coil bolt** M10, **Coil bolt 2** 15.15, **No./terminals** 3

*Cap: HC-CARGO 131318.*

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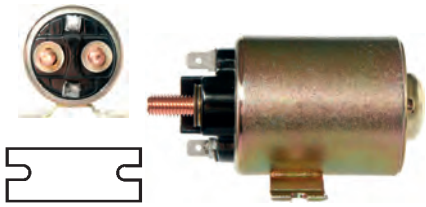

## 131370 Solenoid

**Replacing:** ARD1133, 11.250.142, 11.250.121

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4

*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 333160 5★

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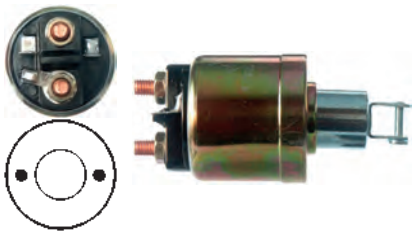

## 133983 Solenoid

**Replacing:** 16.905.426

**Servicing:** 11.130.210, 11.130.291, 11.130.334, 11.130.351, 11.130.600, AZF3513, AZF3524, AZF3527, AZF3533

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 56.25, **OD/cover** 46.90, **Total length** 120.75, **Height/B+** 15.00, **Width/kl. 15a** 14.50, **Width/kl. 50** 14.70, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 4

*Cap: HC-CARGO 137866.*

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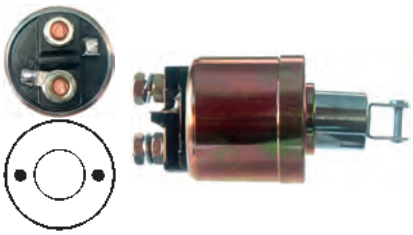

## 134042 Solenoid

**Replacing:** 16.907.055, 16.905.810, 16.905.524, 16.905.423, 16.905.402

**Servicing:** 11.130.166, 11.130.233, 11.130.234, 11.130.244, 11.130.245, 11.130.292, 11.130.293, 11.130.321, 11.130.338, 11.130.352

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.25, **OD** 56.00, **OD/cover** 47.10, **Total length** 121.80, **Height/B+** 14.70, **Width/kl. 50** 14.85, **Coil bolt** M8, **Coil bolt 2** 14.45, **No./terminals** 3

*Cap: HC-CARGO 133890.*

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## 135092 Solenoid

**Replacing:** 16.906.658, 16.905.418

**Servicing:** 11.130.208, 11.130.346, 11.130.582, 11.130.646, 11.130.790, 11.130.956, AZE1203, AZE2522, AZF3512, AZF3531, AZF3558

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.35, **OD** 54.00, **OD/cover** 48.35, **Total length** 103.85, **Height/B+** 18.45, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 18.00

*Cap: HC-CARGO 133892.*

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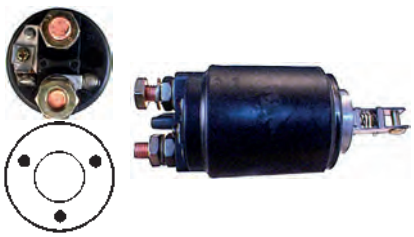

## 139522 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.906.642, 16.906.542, 16.905.754

**Servicing:** 11.130.123, 11.130.179, 11.130.203, 11.130.322, 11.130.376, 11.130.403, 11.130.410, 11.130.500, 11.130.510, 11.130.532

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 61.00, **OD/cover** 53.85, **Total length** 171.20, **Height/B+** 24.00, **Width/kl. 50** 10.40, **Coil bolt** M10, **Coil bolt 2** 18.20, **No./terminals** 3

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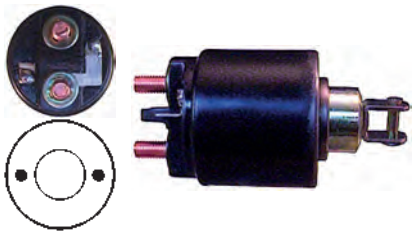
O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

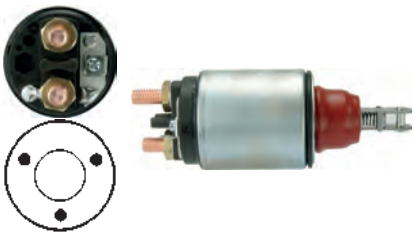


## 139523 Solenoid

**Replacing:** 16.905.814

**Servicing:** 11.130.328, 11.130.395, 11.130.398, 11.130.505, 11.130.965, AZE1502, AZE1507, AZF3549, AZF3555

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.20, **OD** 54.00, **OD/cover** 48.45, **Total length** 100.00, **Height/B+** 14.75, **Width/kl. 50** 11.10, **Coil bolt** M8, **Coil bolt 2** 14.15, **No./terminals** 3

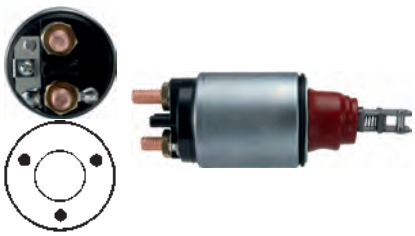


## 139634 Solenoid

**Replacing:** 16.906.015, 16.905.244, 16.905.143

**Servicing:** 11.130.019, 11.130.026, 11.130.083, 11.130.117, 11.130.201, 11.130.247, 11.130.248, 11.130.250, 11.130.253, 11.130.254

12 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.75, **Total length** 152.65, **Height/B+** 23.00, **Coil bolt** M10, **Coil bolt 2** 17.90, **No./terminals** 3



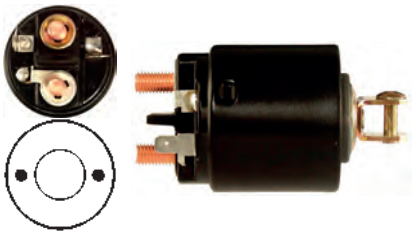
## 230853 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.908.097, 16.905.240

**Servicing:** 11.130.127, 11.130.140, 11.130.198, 11.130.199, 11.130.251, 11.130.366, 11.130.409, 11.130.436, 11.130.565, 11.130.685

12 **V**, **B+** M10, **OD** 61.00, **OD/cover** 53.80, **Total length** 168.45, **Height/B+** 23.50, **Coil bolt** M10, **Coil bolt 2** 19.00, **No./terminals** 3



## 231012 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.906.836

**Servicing:** 11.130.724, 11.130.845, AZE2538, AZE2558

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 16.80, **OD** 53.90, **OD/cover** 51.90, **Total length** 99.50, **Switch dim.** 5.60, **Height/B+** 15.00, **Width/kl. 50** 6.30, **No./terminals** 4

*Cap: HC-CARGO 137866.*

## 233765 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.906.819

**Servicing:** 11.130.432, 11.130.619, 11.130.732, 11.130.838, 11.130.839, AZJ3123, AZJ3196, AZJ3255, AZJ3291, AZJ3292

12 **V**, **B+** M10, **ID/cover** 30.00, **OD** 61.00, **OD/cover** 53.80, **Total length** 153.00, **Height/B+** 23.25, **Coil bolt** M10, **Coil bolt 2** 18.90, **No./terminals** 3

## 234943 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.906.653

**Servicing:** 11.130.558, 11.130.647, 11.130.651, AZE2507, AZE2523, AZE2525

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 26.40, **OD** 54.30, **OD/cover** 47.80, **Total length** 109.40, **Height/B+** 22.15, **Width/kl. 50** 14.41, **Coil bolt** M8, **Coil bolt 2** 11.31, **No./terminals** 3

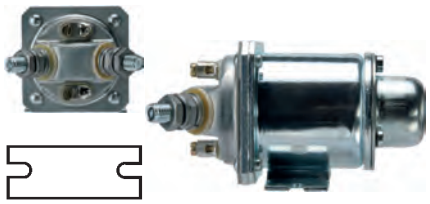
## 235093 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.908.624

**Servicing:** 11.131.052, 11.131.136, 11.131.157, 11.131.164, 11.131.186, 11.131.233, AZE1230, AZE2117, AZE2138, AZE2141, AZE2636

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.05, **Total length** 102.93, **Height/B+** 14.83, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3



## 333160 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** ARD1133, 11.250.142, 11.250.121

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4

*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 131370

**NEW PRODUCT**
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## 333742* Solenoid

**Replacing:** 11.250.147

24 **V**, 150 **Amp**



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## 335047 Solenoid

**Replacing:** 16.915.546

**Servicing:** 11.131.605, 11.131.606, 11.131.716, 11.131.761, 11.131.780, 11.131.781, 11.131.793, 11.131.932, 11.131.942, 11.131.946

12 **V**, **B+** M10, **Kl. 50** M6, **OD** 61.00, **OD/cover** 53.90, **Total length** 162.50, **Height/B+** 25.00, **Coil bolt** M8, **No./terminals** 3

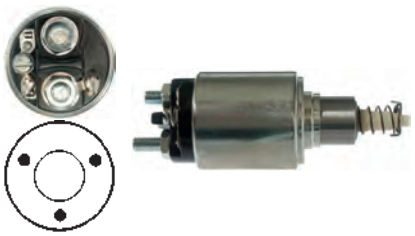
### 24 V

## 130282 Solenoid

**Replacing:** 16.670.073

**Servicing:** 11.139.030, AZK5189

24 **V**, **B+** Cable, **OD** 69.30, **Total length** 91.20

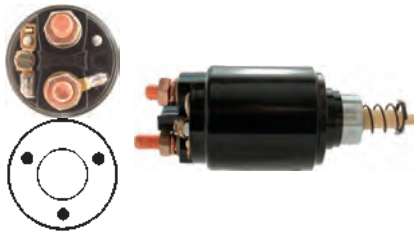


## 130303 Solenoid

**Replacing:** 16.905.395

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M6S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.00, **Height/B+** 23.95, **Width/kl. 30h** 16.75, **Width/kl. 50** 12.82, **Coil bolt** M10, **Coil bolt 2** 18.00, **No./terminals** 3
*Cap: HC-CARGO 133447.*

**Alternative no.:** 333138 5★, 130303Z, 333664

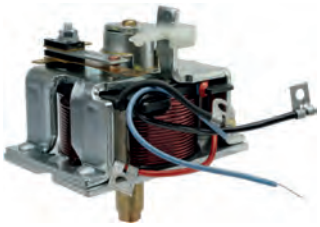


## 130303Z Solenoid

**Replacing:** 16.905.395

24 **V**, **B+** M10, **Kl. 30h** M10, **Kl. 50** M6S, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.35, **Total length** 173.00, **Height/B+** 23.95, **Width/kl. 30h** 16.75, **Width/kl. 50** 12.82, **Coil bolt** M10, **Coil bolt 2** 18.00, **No./terminals** 3
*Cap: HC-CARGO 133447.*

**Alternative no.:** 130303



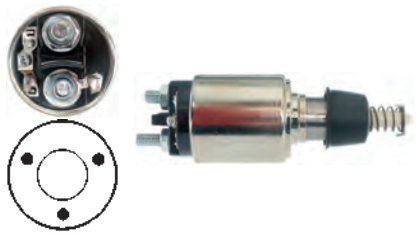
## 130304 Solenoid

**Replacing:** 16.150.010

**Servicing:** 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.030, 11.139.032, 11.139.506, AZK5173, AZK5184, AZK5188, AZK5189

24 **V**, **B+** Cable, **OD** 95.25, **Total length** 93.30

**Alternative no.:** 333155 5★



## 131053 Solenoid

**Replacing:** 16.670.119

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.15, **Total length** 182.30, **Height/B+** 23.30, **Width/kl. 50** 2.25, **Coil bolt** M10, **Coil bolt 2** 16.30, **No./terminals** 3
*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*

**Alternative no.:** 333143 5★

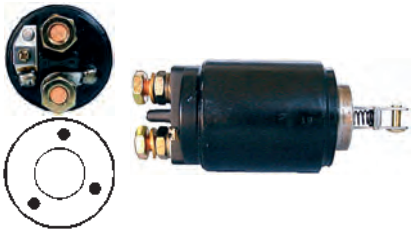
## 133554 Solenoid

**Replacing:** 16.670.012

**Servicing:** 11.130.041, 11.139.013, 11.139.025, 11.139.029, 11.139.032, 11.139.506, AZK5173, AZK5184, AZK5188, AZK5191, AZK5401

24 **V**, **OD** 69.30, **Total length** 91.90

**Alternative no.:** 333154 5★



## 139988 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.905.159

**Servicing:** 11.130.141, 11.130.364, 11.130.491, 11.130.645, 11.130.676, AZJ3132, AZJ3211, AZJ3223, AZJ3518, AZJ3593

24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.85, **OD/cover** 53.75, **Total length** 147.20, **Height/B+** 18.20, **Coil bolt** M10, **Coil bolt 2** 17.25, **No./terminals** 3

## 234985 5★ Solenoid

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.905.764

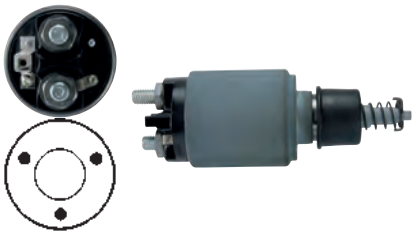
**Servicing:** 11.130.146, 11.130.216, 11.130.225, 11.130.492, 11.130.598, 11.130.687, 11.130.861, AZJ3133, AZJ3188, AZJ3231, AZJ3298

24 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 46.65, **OD** 60.97, **OD/cover** 58.64, **Total length** 155.00, **Switch dim.** 10.41, **Height/B+** 14.82, **Coil bolt** M10, **Coil bolt 2** 10.51, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



**333143** 5★ Solenoid
**Manufacturer:** Bosch
**Replacing:** 16.670.119
24 **V**, **B+** M10, **ID/cover** 30.00, **OD** 60.90, **OD/cover** 53.15, **Total length** 182.30, **Height/B+** 23.30, **Width/kl. 50** 2.25, **Coil bolt** M10, **Coil bolt 2** 16.30, **No./terminals** 3
*Cap: HC-CARGO 131318. Rubber boot: HC-CARGO 135576.*
**Alternative no.:** 131053

**333154** 5★ Solenoid
**Manufacturer:** Bosch
**Replacing:** 16.670.012
24 **V**, **OD** 69.30, **Total length** 91.90
**Alternative no.:** 133554

**333155** 5★ Solenoid
**Manufacturer:** Bosch
**Replacing:** 16.150.010
24 **V**, **B+** Cable, **OD** 95.25, **Total length** 93.30
**Alternative no.:** 130304

**333664** Solenoid
**Replacing:** 16.905.395
24 **V**, **B+** M10, **Kl. 50** M6, **OD** 60.00, **OD/cover** 53.30, **Total length** 173.00, **Height/B+** 18.40, **No./terminals** 3
**Alternative no.:** 130303, 130303Z, 333138 5★

**333669** 5★ Solenoid
**Manufacturer:** Iskra/Mahle
**Replacing:** 11.250.187
24 **V**, 300 **Amp**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 61.20, **OD/cover** 54.25, **Total length** 113.75, **Coil bolt** M8, **No./terminals** 4

## Solenoid Parts

### Solenoid Caps

**133890** Solenoid Cap
**Servicing:** 11.130.007, 11.130.102, 11.130.166, 11.130.233, 11.130.244, 11.130.338, 11.130.392, 11.130.417, 11.130.590, 11.130.722
**OD** 51.90, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 133640, 134042.*

**133892** Solenoid Cap
**Servicing:** 11.130.208, 11.130.328, 11.130.346, 11.130.398, 11.130.582, 11.130.646, 11.130.790, 11.130.956, 11.130.965, 16.905.418
**OD** 51.70, **No./terminals** 3, **Bracket type** Crimp

**139599** Solenoid Cap
**Servicing:** 11.130.529, 11.130.556, 16.905.157, AZE1521, AZE1523
**OD** 51.80, **No./terminals** 3

### Moving Contacts

Pkg. 5

**133891** Moving Contact
**Servicing:** 16.905.423, 16.905.426
**Length** 36.10, **Shaft measurement** 42.55, **Thickness** 2.50, **Width** 15.10,
*Solenoid: HC-CARGO 133983, 134042.*

## Drives

**130414** Drive
**Replacing:** 16.900.920
**Servicing:** 11.130.300, 11.130.399, 11.130.726, 11.130.885, 11.130.886, AZJ3107, AZJ3252, AZJ3311, AZJ3312
**ID** 12.00, **OD** 25.80, **OD/housing** 54.50, **Total length** 71.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 130414Z, 130414ZZ, 333516 5★

HC CAR GO **Best Choice**

**130414Z** Drive
**Replacing:** 16.900.920
**ID** 12.00, **OD** 25.80, **OD/housing** 54.00, **Total length** 71.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 130414

**130414ZZ** Drive
**Replacing:** 16.900.920
**ID** 12.00, **OD** 25.20, **OD/housing** 54.15, **Total length** 70.95, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 130414, 130414Z



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 130417 Drive

**Replacing:** 18.100.098, 18.100.023, 16.909.070

**Servicing:** 10.130.121, 10.130.123, 10.130.142, 10.130.172, 10.130.181, 10.130.207, 11.130.005, 11.130.009, 11.130.104, 11.130.115

**ID** 14.70, **OD** 34.70, **OD/housing** 35.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 130418 Drive

**Replacing:** 16.909.002, 15.100.152

**Servicing:** 11.139.002, 11.139.003, 11.139.006, 11.139.010, 11.139.011, 11.139.012, 11.139.013, 11.139.014, 11.139.016, 11.139.019

**ID** 10.15, **OD** 41.00, **Total length** 61.00, **No./teeth** 11

**Alternative no.:** 333175 5★, 130418Z

**Best Choice**

## 130419 Drive

**Replacing:** 15.100.092

**ID** 10.15, **OD** 34.30, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333173 5★, 130419Z

## 130419Z Drive

**Replacing:** 15.100.092

**ID** 14.00, **OD** 34.80, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333173 5★, 130419

## 130722 Drive

**Replacing:** 18.100.104

**Servicing:** 10.130.141, 10.130.146, 11.130.320, AZK5111

**ID** 14.70, **OD** 39.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 10

## 130740 Drive

**Replacing:** 16.900.038

**ID** 11.50, **OD** 25.30, **OD/housing** 41.30, **Total length** 65.00, **Splines A** 2, **No./teeth** 9, **Rotation** ACR

## 131167 Drive

**Replacing:** 15.100.154

**ID** 10.15, **OD** 42.00, **Total length** 61.00, **No./teeth** 11

## 131267 Drive

**Replacing:** 16.903.130

**ID** 14.00, **OD** 34.80, **OD/housing** 60.14, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131714 Drive

**Replacing:** 18.100.021

**Servicing:** 11.130.158

**ID** 14.60, **OD** 41.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 11

## 132075 Drive

**Replacing:** 18.900.179

**ID** 14.00, **OD** 29.00, **OD/housing** 46.20, **Total length** 70.00, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 132273 Drive

**Replacing:** 16.900.935

**ID** 14.30, **OD** 34.20, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333227 5★

## 132764 Drive

**Replacing:** 16.900.089

**Servicing:** 11.130.029, 11.130.102, 11.130.162, 11.130.166, 11.130.209, 11.130.217, 11.130.218, 11.130.219, 11.130.234, 11.130.293

**ID** 11.60, **OD** 25.15, **OD/housing** 45.65, **Total length** 65.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR



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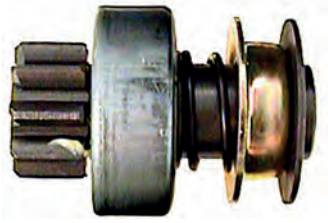
#Available while stock last, * Program development.

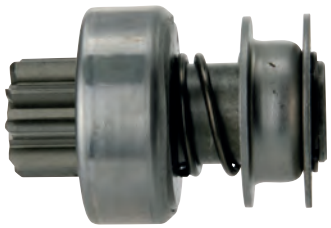


## 132906 Drive

**Replacing:** 16.900.057, 11.900.057

**Servicing:** 11.130.007, AZE0305

**ID** 11.55, **OD** 29.25, **OD/housing** 45.00, **Total length** 65.00, **Splines A** 12, **No./teeth** 9, **Rotation** ACR



## 133231Z Drive

**Replacing:** 16.900.068

**ID** 11.50, **OD** 25.25, **OD/housing** 45.45, **Total length** 64.90, **Splines A** 12, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

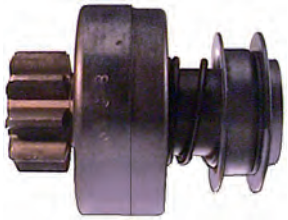
**Alternative no.:** 133231

## 133860 Drive

**Replacing:** 922H6, 16.901.408, 16.901.392, 16.900.922, 16.900.541, 16.900.408, 16.900.392

**Servicing:** 11.130.193, 11.130.210, 11.130.224, 11.130.233, 11.130.244, 11.130.291, 11.130.338, 11.130.346, 11.130.378, 11.130.392

**ID** 12.00, **OD** 25.25, **OD/housing** 47.00, **Total length** 56.40, **Splines A** 12, **No./teeth** 9, **Rotation** CR



## 136969 Drive

**Replacing:** 16.903.087, 16.900.879, 16.900.254

**Servicing:** 11.130.117, 11.130.123, 11.130.146, 11.130.203, 11.130.216, 11.130.247, 11.130.319, 11.130.432, 11.130.500, 11.130.503

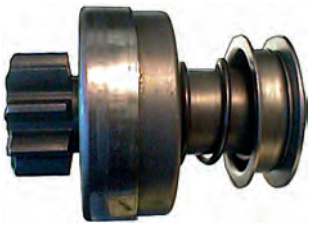
**ID** 14.40, **OD** 34.60, **OD/housing** 60.00, **Total length** 76.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 137281Z Drive

**Replacing:** 16.900.284, 16.900.117

**ID** 14.35, **OD** 34.50, **OD/housing** 60.30, **Total length** 82.60, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 137281



## 138866 Drive

**Replacing:** 16.901.658

**Servicing:** 11.130.010, 11.130.229, 11.130.254, 11.130.364, 11.130.407, 11.130.409, 11.130.412, 11.130.484, 11.130.491, 11.130.619

**ID** 14.30, **OD** 34.30, **OD/housing** 60.00, **Total length** 83.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 139519 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.901.512

**Servicing:** 11.130.328, 11.130.398, 11.130.529, 11.130.556, 11.130.965, AZE1502, AZE1507, AZE1521, AZE1523

**ID** 12.00, **OD** 25.25, **OD/housing** 48.60, **Total length** 56.40, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 139520 Drive

**Replacing:** 16.901.694

**Servicing:** 11.130.386, 11.130.419, 11.130.509, 11.130.520, 11.130.526, 11.130.527, 11.130.579, 11.130.624, 11.130.627, 11.130.629

**ID** 14.28, **OD** 39.35, **OD/housing** 62.20, **Total length** 76.75, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 139521 Drive

**Replacing:** 16.903.166

**Servicing:** 11.130.534, 11.130.553, 11.130.569, 11.130.662, 11.130.665, 11.130.694, 11.130.750, 11.130.762, 11.130.797, 11.130.819

**ID** 14.30, **OD** 31.80, **OD/housing** 60.30, **Total length** 81.45, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 230280 Drive

**Replacing:** 16.901.752

**Servicing:** 11.130.179, 11.130.201, 11.130.376, 11.130.414, 11.130.595, 11.130.626, 11.130.686, 11.130.692, 11.130.705, 11.130.710

**ID** 14.30, **OD** 40.50, **OD/housing** 62.00, **Total length** 82.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 231623 Drive

**Replacing:** 16.904.847

**Servicing:** 11.130.810, 11.130.897, AZJ3319, AZJ3320, AZJ3332

**ID** 14.35, **OD** 39.50, **OD/housing** 60.00, **Total length** 82.30, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 232482 Drive

**Replacing:** 16.901.722

**Servicing:** 11.130.251, 11.130.402, AZJ3109, AZJ3555, IS0402

**ID** 14.45, **OD** 34.00, **OD/housing** 60.00, **Total length** 80.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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## 233764 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.903.095

**Servicing:** 11.130.525, 11.130.535, 11.130.707, 11.130.732, 11.131.029, AZJ3150, AZJ3159, AZJ3245, AZJ3255, AZJ3359

**ID** 14.25, **OD** 34.00, **OD/housing** 62.00, **Total length** 76.45, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 234267 Drive

**Replacing:** 16.901.769

**Servicing:** 11.130.410, 11.130.937, AZJ3116, AZJ3339

**ID** 14.35, **OD** 34.45, **OD/housing** 60.25, **Total length** 76.35, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 234268 Drive

**Replacing:** 16.900.880

**Servicing:** 11.130.083, 11.130.250, 11.130.309, 11.130.521, 11.130.554, 11.130.630, 11.130.682, 11.130.838, 11.130.839, 11.131.013

**ID** 14.30, **OD** 40.75, **OD/housing** 60.25, **Total length** 75.40, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 234270 Drive

**Replacing:** 16.903.392

**Servicing:** 11.130.534, 11.130.537, 11.130.783, 11.130.784, 11.131.143, AZJ3160, AZJ3281, AZJ3282

**ID** 14.30, **OD** 37.85, **OD/housing** 60.50, **Total length** 81.40, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 234984 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16902816, 16.902.816, 16.902.004, 16.901.751

**Servicing:** 11.130.408, 11.130.596, 11.130.598, 11.130.605, 11.130.663, 11.130.678, 11.130.703, 11.130.731, 11.130.739, 11.130.745

**ID** 14.00, **OD** 39.44, **OD/housing** 62.12, **Total length** 82.88, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 235092 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.902.152

**Servicing:** 11.131.186, AZE1230

**ID** 12.00, **OD** 28.08, **OD/housing** 51.07, **Total length** 56.50, **Splines A** 12, **No./teeth** 8, **Rotation** ACR

## 235621 Drive

**Replacing:** 16.900.151

**Servicing:** 11.130.076, 11.130.200, 11.130.373, 11.130.411, 11.130.629, 11.130.872, AZJ0405, AZJ3117, AZJ3144, AZJ3203, AZJ3305

**ID** 14.30, **OD** 39.45, **OD/housing** 59.70, **Total length** 85.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 235797 Drive

**Replacing:** 16.904.400

**Servicing:** 11.130.565, 11.130.974, AZJ3177, AZJ3349

**ID** 14.28, **OD/housing** 62.10, **Total length** 76.30, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 235828 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.902.098

**Servicing:** 11.130.676, AZJ3223

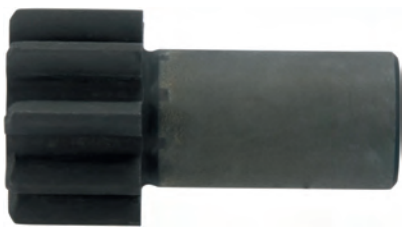
**ID** 14.00, **OD** 36.80, **OD/housing** 62.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 235850 Drive

**Replacing:** 16.901.657

**Servicing:** 11.130.124, 11.130.366, 11.130.403, 11.130.490, 11.130.492, AZJ3110, AZJ3131, AZJ3133, AZJ3517, AZJ3535, AZJ3546

**ID** 14.30, **OD** 34.60, **OD/housing** 60.30, **Total length** 81.50, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



## 333173 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 15.100.092

**ID** 10.60, **OD** 35.00, **Total length** 61.10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 130419

## 333175 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 16.909.002, 15.100.152

**ID** 10.15, **OD** 41.00, **Total length** 61.00, **No./teeth** 11, **Drive type** Steel

**Alternative no.:** 130418, 130418Z



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#Available while stock last, * Program development.

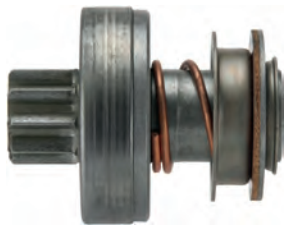
## 333227 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 16.900.935

**ID** 14.30, **OD** 34.20, **OD/housing** 60.00, **Total length** 91.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132273



## 333516 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 16.900.920

**ID** 12.00, **OD** 25.35, **OD/housing** 57.40, **Total length** 72.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414, 130414Z, 130414ZZ

## 333668 5★ Drive

**Manufacturer:** Iskra/Mahle

**Replacing:** 16.904.676

**ID** 14.00, **OD** 40.50, **OD/housing** 62.10, **Total length** 82.00, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 333674 Drive

**Replacing:** 16.902.379

**Servicing:** 11.130.679, 11.130.685, 11.130.785, 11.130.904, 11.130.999, 11.131.027, 11.131.060, 11.131.092, 11.131.145, 11.131.191

**ID** 14.20, **OD** 39.50, **OD/housing** 60.25, **Total length** 82.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333679 Drive

**Replacing:** 16.911.403

**Servicing:** 11.132.051, 11.132.173, AZE4222

**ID** 14.26, **OD** 34.80, **OD/housing** 60.40, **Total length** 75.90, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 333680 Drive

**Replacing:** 16.907.455

**Servicing:** 11.131.116, 11.131.515, 11.131.773, AZE4122, AZE4171, AZE4540

**ID** 14.26, **OD** 40.00, **OD/housing** 60.00, **Total length** 85.60, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333681 Drive

**Replacing:** 16.904.776

**Servicing:** 11.130.836, 11.131.542, 11.131.602, 11.131.727, 11.132.183, 11.132.356, 11.132.359, AZF4154, AZF4190, AZF4324, AZF4369

**ID** 14.26, **OD** 41.00, **OD/housing** 60.20, **Total length** 81.80, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 333682 Drive

**Replacing:** 16.907.197, 16.902.507

**Servicing:** 11.131.279, 11.131.315, 11.131.605, 11.131.606, 11.131.696, 11.131.716, 11.131.761, 11.131.780, 11.131.781, 11.131.793

**ID** 14.26, **OD/housing** 60.40, **Total length** 75.60, **Splines A** 14, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333683 Drive

**Replacing:** 16.902.653

**Servicing:** 11.131.108, 11.131.751, 11.131.833, 11.132.084, 11.132.227, AZE4169, AZE4185, AZE4228, AZE4261, AZE4534

**ID** 14.00, **OD** 32.00, **OD/housing** 62.00, **Total length** 75.90, **Splines A** 14, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333756 Drive

**Replacing:** 16902835

**Servicing:** 11.131.271, 11.131.352, 11.132.094, 11.132.260, AZF4295, AZF4346, AZF4591

**ID** 14.25, **OD** 39.30, **OD/housing** 62.30, **Total length** 82.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 333902 Drive

**Replacing:** 16.911.538

**Servicing:** 11.131.458, 11.131.948, 11.131.950, IS1231

**ID** 12.00, **OD** 34.20, **OD/housing** 57.80, **Total length** 64.90, **Splines A** 14, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 333905 Drive

**Replacing:** 16.903.695

**Servicing:** 11.130.651, 11.130.773, 11.130.777, 11.130.787, 11.130.911, AZE2525, AZE2541, AZE2545, AZE2548, AZE2578

**ID** 12.00, **OD** 24.90, **OD/housing** 48.50, **Total length** 59.90, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



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**333908** Drive

**Replacing:** 16.902.808, 11.902.808

**Servicing:** 11.131.109, 11.131.951, AZE4202, AZE4535

**ID** 14.00, **OD** 35.80, **OD/housing** 60.50, **Total length** 75.50, **Splines A** 14, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**333909** Drive

**Replacing:** 16.908.352, 16.908.135

**Servicing:** 11.130.923, 11.131.199, 11.131.233, AZE2606

**ID** 13.00, **OD** 29.40, **OD/housing** 53.60, **Total length** 86.10, **Splines A** 14, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**333910** Drive

**Replacing:** 16.902.036

**Servicing:** 11.131.117, 11.131.411, 11.131.491, 11.131.830, 11.131.839, AZF4611, AZF4643, AZF4687

**ID** 19.00, **OD** 39.30, **OD/housing** 62.30, **Total length** 136.50, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**333911** Drive

**Replacing:** 16.904.894

**Servicing:** 11.130.730, 11.131.085, 11.131.236, 11.132.106, 11.132.189, AZF4327

**ID** 14.25, **OD** 40.50, **OD/housing** 62.30, **Total length** 82.50, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**333912** Drive

**Replacing:** 16.902.854

**ID** 14.00, **OD** 32.00, **OD/housing** 60.50, **Total length** 84.50, **Splines A** 14, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**333989** Drive

**Replacing:** 11.911.910

**ID** 14.10, **OD** 34.80, **OD/housing** 62.20, **Total length** 82.20, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## Drive Parts

### Springs

Pkg. 500

**134219** Spring

**OD** 5.00, **Length** 11.25

## Levers

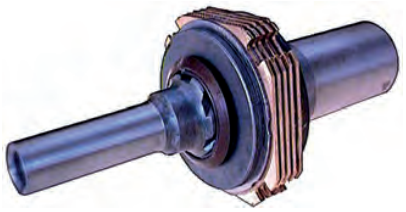
**235094** Lever

**Replacing:** 16908037

**Servicing:** 11.130.763, 11.130.963, 11.130.964, 11.130.965, 11.130.966, 11.130.967, 11.130.968, 11.130.969, 11.130.994, 11.131.028

**Dist.** 26.90, **ID** 7.20, **Length** 82.55

## Clutches



**130317** Clutch

**Replacing:** 16.909.013

**Servicing:** 11.130.041, 11.130.170, 11.139.001, 11.139.002, 11.139.003, 11.139.004, 11.139.005, 11.139.006, 11.139.007, 11.139.008

**OD** 9.70, **Total length** 166.00, **No./splines** 6, **Rotation** CR

**Alternative no.:** 333732 5★

**333732** 5★ Clutch

**Manufacturer:** Bosch

**Replacing:** 16.909.013

**Servicing:** 11.130.170, AZK5119

**OD** 65.90, **Total length** 165.60, **Rotation** CR

**Alternative no.:** 130317

## Brush Sets

**140918** Brush Set

**Replacing:** 16.770.295

24 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 25.85, **Thickness** 8.90

*1.5/2.5 kW.*

**140974** Brush/Spring Kit

**Replacing:** 16.905.832

**Servicing:** 11.130.321, 11.130.328, 11.130.398, 11.130.404, 11.130.483, 11.130.487, 11.130.495, 11.130.519, 11.130.529, 11.130.556

12 **V**, **Length** 11.50, **Lead length** 30.50, **Height** 12.00, **Thickness** 6.00

*2 component.*



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## 140978 Brush/Spring Kit

**Replacing:** 16.906.266, 16.905.688

**Servicing:** 11.130.026, 11.130.074, 11.130.076, 11.130.127, 11.130.140, 11.130.179, 11.130.194, 11.130.198, 11.130.199, 11.130.200

12 **V**, **Length** 23.00, **Lead length** 41.60, **Height** 25.00, **Thickness** 10.00

*Brush set w/o springs: HC-CARGO IKSX12 4.*

**Alternative no.:** IKSX124

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## 140979 Brush/Spring Kit

**Replacing:** 16.905.695

**Servicing:** 11.130.010, 11.130.339, 11.130.364, 11.130.367, 11.130.407, 11.130.490, 11.130.491, 11.130.492, 11.130.595, 11.130.598

24 **V**, **Length** 23.00, **Lead length** 40.20, **Height** 25.00, **Thickness** 8.00

*Brush set w/o springs: HC-CARGO IKSX10-114.*

**Alternative no.:** IKSX10-114

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## 140981 Brush/Spring Kit

**Replacing:** 16.905.973, 16.905.645

**Servicing:** 11.130.019, 11.130.117, 11.130.123, 11.130.203, 11.130.250, 11.130.253, 11.130.300, 11.130.309, 11.130.319, 11.130.386

12 **V**, **Length** 23.50, **Lead length** 42.50, **Height** 16.00, **Thickness** 9.00

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## 140982 Brush/Spring Kit

**Replacing:** 16.905.233

**Servicing:** 11.130.010, 11.130.030, 11.130.124, 11.130.141, 11.130.151, 11.130.154, 11.130.230, AZJ3518, AZJ3522

24 **V**, **Length** 23.00, **Lead length** 41.50, **Height** 25.00, **Thickness** 10.00

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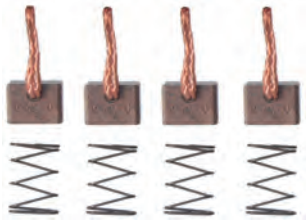

## 141030 Brush/Spring Kit

**Replacing:** 16.906.368

**Servicing:** 11.130.417, 11.130.558, 11.130.593, 11.130.623, 11.130.642, 11.130.646, 11.130.647, 11.130.651, 11.130.716, 11.130.717

12 **V**, **Length** 13.00, **Lead length** 31.00, **Height** 18.00, **Thickness** 6.00

*Brush set w/o springs: HC-CARGO IKSX13-14 4.*

**Alternative no.:** IKSX13-144

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## 142325 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 16.905.247

12 **V**, **Length** 16.94, **Lead length** 23.00, **Height** 17.90, **Thickness** 7.50

**Alternative no.:** BSX151S4, 142334

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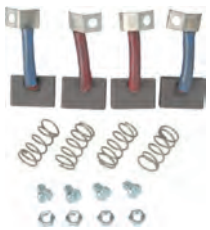

## 142326 5★ Brush Set

**Manufacturer:** Bosch

**Replacing:** 16.905.375

24 **V**, **Length** 16.60, **Lead length** 56.00, **Lead length 2** 46.80, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BSX135-1454

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## 142334 Brush Set

**Replacing:** 16.905.247

12 **V**, **Length** 15.50 / 17.00, **Lead length** 23.00, **Height** 18.00, **Thickness** 7.50

**Alternative no.:** BSX151S4, 142325 5★

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## 142335 Brush Set

**Replacing:** 16.905.235

12 **V**, **Length** 14.40 / 13.20, **Lead length** 25.00, **Height** 17.90, **Thickness** 5.95

**Alternative no.:** BSX157-1584

---

## BSX1004 Brush Set

**Replacing:** 16.905.380

24 **V**, **Length** 23.00, **Lead length** 42.00, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BS100

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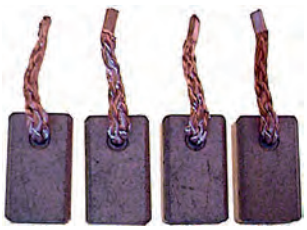

## BSX1024 Brush Set

**Replacing:** 16.905.767, 16.905.294

**Servicing:** 11.130.146, 11.130.216, 11.130.295, 11.130.535, 11.130.554, 11.130.585, 11.130.645, 11.130.727, 11.130.962, 11.130.974

12 **V**, **Length** 25.50, **Lead length** 36.00, **Height** 15.85, **Thickness** 9.00

**Alternative no.:** BS102

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## BSX1304 Brush Set

**Replacing:** 16.909.041

**Servicing:** 11.139.007, 11.139.008, 11.139.017, 11.139.092, 11.139.093, 11.139.094, 11.139.095, 11.139.096, 11.139.112, AZK5168

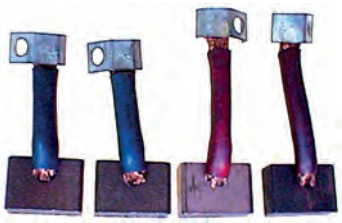
12 **V**, **Length** 27.00, **Lead length** 49.00, **Height** 36.00, **Thickness** 12.00

## BSX1314 Brush Set

**Replacing:** 16.909.012, 16.905.063

**Servicing:** 11.139.001, 11.139.002, 11.139.003, 11.139.004, 11.139.005, 11.139.006, 11.139.009, 11.139.010, 11.139.011, 11.139.012

24 **V**, **Length** 27.00, **Lead length** 46.00, **Height** 36.00, **Thickness** 12.00



## BSX134-1444 Brush Set

**Replacing:** 16.905.376

12 **V**, **Length** 17.00, **Lead length** 57.00, **Lead length 2** 44.00, **Height** 25.00, **Thickness** 10.00

**Alternative no.:** BS134/0

## BSX135-1454 Brush Set

**Replacing:** 16.905.375

24 **V**, **Length** 16.60, **Lead length** 56.00, **Lead length 2** 46.80, **Height** 25.00, **Thickness** 8.00

**Alternative no.:** BS135/0, 142326 5★

## BSX151S4 Brush Set

**Replacing:** 16.905.247

**Servicing:** 11.130.083, 11.130.119, 11.130.222, 11.130.247, 11.130.248, AZJ3552

12 **V**, **Length** 17.00/19.00, **Lead length** 26.00, **Height** 18.00, **Thickness** 7.50

**Alternative no.:** BS151, 142325 5★, 142334

## BSX157-1584 Brush Set

**Replacing:** 16.905.235

**Servicing:** 11.130.606

12 **V**, **Length** 14.40 / 13.20, **Height** 17.90, **Lead length** 25.00, **Thickness** 5.95

**Alternative no.:** 142335

## BSX344 Brush Set

**Replacing:** 16.905.388, 16.905.387

**Servicing:** 10.130.121, 10.130.123, 10.130.125, 10.130.140, 10.130.141, 10.130.142, 10.130.146, 10.130.207, 11.130.005, 11.130.009

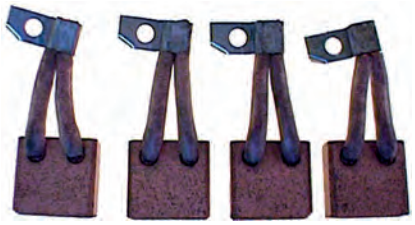
24 **V**, **Length** 28.50, **Lead length** 45.00, **Height** 20.00, **Thickness** 9.00

## BSX354 Brush Set

**Replacing:** 16.905.389

**Servicing:** 10.130.160, 10.130.170, 10.130.172, 10.130.181, 11.130.075, 11.130.081, 11.130.158, 11.130.231

12 **V**, **Length** 28.50, **Lead length** 47.00, **Height** 20.00, **Thickness** 12.00



## BSX964 Brush Set

**Replacing:** 16.905.392, 16.905.226

12 **V**, **Length** 23.00, **Lead length** 43.00, **Height** 25.00, **Thickness** 10.00

**Alternative no.:** BS96

## IKSX124 Brush Set

12 **V**, **Length** 23.00, **Lead length** 35.59, **Height** 25.00, **Thickness** 10.00

*w/ springs: HC-CARGO 140978.*

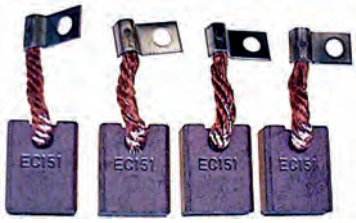
**Alternative no.:** 140978

## IKSX2-32 Brush Set

**Replacing:** 16.905.950, 16.905.439

**Servicing:** 11.130.193, 11.130.208, 11.130.210, 11.130.233, 11.130.244, 11.130.245, 11.130.246, 11.130.291, 11.130.334, 11.130.338

12 **V**, **Length** 15.00, **Lead length** 71.00, **Lead length 2** 42.00, **Height** 12.00, **Thickness** 6.90/13.90




## JSX134 Brush Set

**Replacing:** 16.905.218

**Servicing:** E100

12 **V**, **Length** 20.00, **Lead length** 33.50, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** JS13



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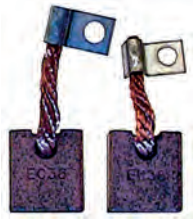
## JSX162 Brush Set

**Replacing:** 16.905.421, 16.905.108

**Servicing:** E84, 11.130.007, 11.130.029, 11.130.034, 11.130.085, 11.130.102, 11.130.155, 11.130.162, 11.130.166, 11.130.217

12 **V**, **Length** 19.00, **Lead length** 31.00, **Height** 17.00, **Thickness** 8.00

**Alternative no.:** JS16



## JSX52 Brush Set

**Replacing:** 16.905.225

**Servicing:** 11.130.134, 11.130.143, 11.130.266, 11.130.314

12 **V**, **Length** 17.00, **Lead length** 24.50, **Height** 16.00, **Thickness** 6.00

**Alternative no.:** JS5

## Bushings

Pkg. 10

## 140006 Bushing

**Replacing:** 15.120.012

**Servicing:** 11.130.010, 11.130.076, 11.130.123, 11.130.141, 11.130.151, 11.130.200, 11.130.230, 11.130.339, 11.130.373, 11.130.407

**ID** 14.04, **OD** 20.02, **Length** 10.00

**Alternative no.:** B140006

## 140007# Bushing

**Replacing:** 17.900.295

**ID** 34.50, **OD** 39.17, **Length** 41.80

Pkg. 10

## 140010 Bushing

**Replacing:** 15.120.094

**ID** 12.59, **OD** 16.55, **Length** 18.00

**Alternative no.:** B140010

Pkg. 10

## 140019 Bushing

**Replacing:** 15.120.095

**Servicing:** 11.139.163, AZJ3448

**ID** 14.06, **OD** 18.03, **Length** 14.00

**Alternative no.:** B140019

Pkg. 10

## 140026 Bushing

**Replacing:** 15.120.011

**ID** 19.10, **OD** 23.10, **Length** 13.00

**Alternative no.:** B140026

Pkg. 10

## 140040 Bushing

**Replacing:** 15.120.087, 15.120.022

**Servicing:** M78, M79, 11.130.174, 11.130.193, 11.130.208, 11.130.210, 11.130.233, 11.130.244, 11.130.245, 11.130.246, 11.130.291

**ID** 12.00, **OD** 15.00, **Length** 12.00

**Alternative no.:** B140040

Pkg. 10

## 140050 Bushing

**Replacing:** 17.120.057

**ID** 10.08, **OD** 14.02, **Length** 13.50

**Alternative no.:** B140050

Pkg. 10

## 140140 Bushing

**Replacing:** 15.120.014

**ID** 16.67, **OD** 19.60, **Length** 19.00

**Alternative no.:** B140140

Pkg. 10

## 140310 Bushing

**Replacing:** 15.120.161

**Servicing:** 11.130.019, 11.130.083, 11.130.203, 11.130.216, 11.130.248, 11.130.250, 11.130.309, 11.130.386, 11.130.432, 11.130.500

**ID** 12.52, **OD** 16.00, **Length** 15.00

**Alternative no.:** B140310

Pkg. 10

## 140435 Bushing

**Replacing:** 17.120.305

**Servicing:** 11.130.007, 11.130.029, 11.130.034, 11.130.085, 11.130.102, 11.130.155, 11.130.162, 11.130.166, 11.130.209, 11.130.217

**ID** 11.60, **OD** 14.08, **Length** 13.00

**Alternative no.:** B140435

Pkg. 10

## 140436 Bushing

**Replacing:** 17.120.203

**Servicing:** 11.130.007, 11.130.029, 11.130.034, 11.130.085, 11.130.102, 11.130.155, 11.130.162, 11.130.166, 11.130.209, 11.130.217

**ID** 12.04, **OD** 16.00, **Length** 16.00

**Alternative no.:** B140436

Pkg. 10

## 140977 Bushing

**Replacing:** 16.120.010, 15.120.243, 15.120.155, 15.120.153, 15.120.010

**Servicing:** 11.130.010, 11.130.019, 11.130.026, 11.130.030, 11.130.074, 11.130.076, 11.130.083, 11.130.117, 11.130.119, 11.130.123

**ID** 14.33, **OD** 18.05, **Length** 18.00

**Alternative no.:** B140977

Pkg. 10

## 140996 Bushing

**Replacing:** 15.120.089

**Servicing:** 11.130.117, 11.130.119, 11.130.123, 11.130.222, 11.130.247, 11.130.253, 11.130.295, 11.130.319, 11.130.386, 11.130.500

**ID** 12.45, **OD** 15.85, **Length** 17.90

Pkg. 10

## 141031 Bushing

**Replacing:** 16.906.372

**Servicing:** 11.130.417, 11.130.558, 11.130.623, 11.130.642, 11.130.646, 11.130.647, 11.130.651, 11.130.716, 11.130.717, 11.130.772

**ID** 12.12, **OD** 15.04, **Length** 13.90

Pkg. 10

## 141032 Bushing

**Replacing:** 16.906.373

**Servicing:** 11.130.417, 11.130.558, 11.130.593, 11.130.623, 11.130.642, 11.130.646, 11.130.647, 11.130.651, 11.130.716, 11.130.717

**ID** 10.10, **OD** 15.01, **Length** 10.00

Pkg. 10

## 142041 Bushing

**Replacing:** 16.906.374

**Servicing:** 11.130.328, 11.130.398, 11.130.404, 11.130.483, 11.130.487, 11.130.495, 11.130.519, 11.130.529, 11.130.556, 11.130.580

**ID** 12.00, **OD** 15.00, **Length** 11.90

Pkg. 100

## B140006 Bushing

**Replacing:** 15.120.012

**Servicing:** AZJ0405, AZJ3514

**ID** 14.04, **OD** 20.02, **Length** 10.00

**Alternative no.:** 140006

Pkg. 100

## B140010 Bushing

**Replacing:** 15.120.094

**ID** 12.56, **OD** 16.55, **Length** 18.00

**Alternative no.:** 140010

Pkg. 100

## B140019 Bushing

**Replacing:** 15.120.095

**ID** 14.06, **OD** 18.03, **Length** 14.00

**Alternative no.:** 140019

Pkg. 100

## B140026 Bushing

**Replacing:** 15.120.011

**ID** 19.10, **OD** 23.10, **Length** 13.00

**Alternative no.:** 140026

Pkg. 100

## B140040 Bushing

**Replacing:** 15.120.087, 15.120.022

**ID** 11.95, **OD** 15.00, **Length** 12.00

**Alternative no.:** 140040

Pkg. 100

## B140050 Bushing

**Replacing:** 17.120.057

**ID** 10.08, **OD** 14.04, **Length** 13.50

**Alternative no.:** 140050



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#Available while stock last, * Program development.

Pkg. 100

**B140140** Bushing

**Replacing:** 15.120.014

**ID** 16.67, **OD** 19.60, **Length** 19.00

**Alternative no.:** 140140

Pkg. 100

**B140310** Bushing

**Replacing:** 15.120.161

**Servicing:** 11.130.019, 11.130.551, 11.130.972, 11.131.635, AZJ0102, AZJ3347, AZJ3447

**ID** 12.52, **OD** 16.00, **Length** 15.00

**Alternative no.:** 140310

Pkg. 100

**B140435** Bushing

**Replacing:** 17.120.305

**ID** 11.60, **OD** 14.08, **Length** 13.00

**Alternative no.:** 140435

Pkg. 100

**B140436** Bushing

**Replacing:** 17.120.203

**ID** 12.04, **OD** 16.00, **Length** 16.00

**Alternative no.:** 140436

Pkg. 100

**B140977** Bushing

**Replacing:** 16.120.010, 15.120.243, 15.120.155, 15.120.153, 15.120.010

**Servicing:** 11.130.019, 11.130.551, 11.130.785, 11.130.836, 11.130.841, 11.130.972, 11.131.060, 11.131.108, 11.131.145, 11.131.191

**ID** 14.33, **OD** 18.05, **Length** 18.00

**Alternative no.:** 140977

## Bearings

### Ball Bearings

**141093** Ball Bearing Kit

**Replacing:** 16.908.665, 16.908.607, 16.906.345

**Servicing:** 11.201.052, 11.201.219, 11.201.226, 11.201.440, 11.201.478, 11.201.498, 11.201.534, 11.201.597, 11.201.598, 11.201.666

## Sundry Parts

### O-rings

Pkg. 10

**134716** O-ring

**Servicing:** 11.130.141, 11.130.151, 11.130.200, 11.130.373, 11.130.411, 11.130.484, 11.130.491, 11.130.509, 11.130.526, 11.130.532

**ID** 47.30, **Thickness** 2.60

Pkg. 10

**139562** O-ring

**Servicing:** 11.130.010, 11.130.076, 11.130.141, 11.130.200, 11.130.203, 11.130.230, 11.130.339, 11.130.373, 11.130.407, 11.130.411

**ID** 30.00, **Thickness** 2.50

### Rods

**131443** Rod

**Replacing:** 16.110.010

**OD** 9.66, **Length** 325.00

## Field Coils

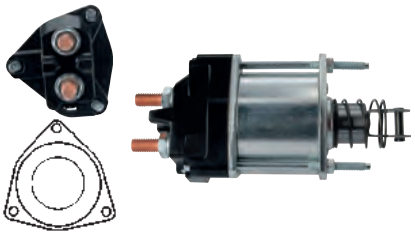
### 12 V

**130368**# Field Coil
**Replacing:** 2101-3708120
**Servicing:** 2100-3708000, 2101-3708000, 221-3708000, 3101-3708000, CT221128, CT22112B, CT2213708000, KAT3KCT221126
12 **V**, 1.3 **kW**, **Height** 93.80, **Internal height** 62.45, **Inner width** 24.20

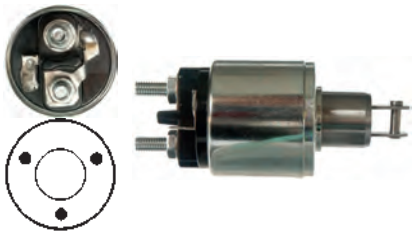
**130369** Field Coil
**Replacing:** 2101-3708150
**Servicing:** 2100-3708000, 2101-3708000, 221-3708000, 3101-3708000, CT221128, CT22112B, CT2213708000, KAT3KCT221126
12 **V**, 1.3 **kW**, **Height** 97.20, **Internal height** 62.25, **Inner width** 24.30

## Solenoids

### 12 V



**130367** Solenoid
**Replacing:** 2101-3708805
**Servicing:** KAT3K35.3708
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.80, **OD** 57.90, **OD/cover** 49.70, **Total length** 143.70, **Height/B+** 18.50, **Width/kl. 50** 9.90, **Coil bolt** M8, **Coil bolt 2** 18.50, **No./terminals** 3
*Cap: HC-CARGO 131324.*



**131439** Solenoid
**Replacing:** 2108-3708808
**Servicing:** 2100-3708000, 2101-3708000, 2103-12VIP54, 2108-3708010, 221-3708000, 293708, 3101-3708000, CT221128, CT22112B
12 **V**, **B+** M8, **Kl. 15a** M8, **Kl. 50** 6.30, **ID/cover** 27.10, **OD** 56.40, **OD/cover** 49.30, **Total length** 132.80, **Height/B+** 20.80, **Width/kl. 15a** 21.00, **Width/kl. 50** 12.50, **No./terminals** 3
*Cap: HC-CARGO 135225.*

## Solenoid Parts

### Solenoid Caps

**135225**# Solenoid Cap
**Servicing:** 2103-12VIP54, 2108-3708010, 2108-3708808, 293708, KAT3K29.3708
**OD** 53.00, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 131439.*

## Drives

**130738** Drive
**Replacing:** 2101-3708620
**Servicing:** 2100-3708000, 2101-3708000, 221-3708000, 3101-3708000, CT221128, CT22112B, CT2213708000, KAT3K35.3708, KAT3KCT221126
**ID** 14.00, **OD** 29.15, **OD/housing** 46.20, **Total length** 68.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

**131212** Drive
**Replacing:** 2108-3708620
**Servicing:** 2103-12VIP54, 2108-3708010, 293708, KAT3K29.3708
**ID** 14.00, **OD** 29.20, **OD/housing** 46.40, **Total length** 66.50, **Splines A** 6, **No./teeth** 11, **Rotation** ACR

**233993** Drive
**Replacing:** 2110-3708620
**Servicing:** 2110-3708010, 5702.3708
**ID** 12.00, **OD** 25.30, **OD/housing** 46.20, **Total length** 53.30, **Splines A** 9, **No./teeth** 9, **Rotation** ACR
*w/ lever.*

## Brush Gears

### Brush Gear Parts

### Brush Springs

Pkg. 10

**135119** Brush Spring
**Servicing:** M78R, M79, M80R
**OD** 9.25, **Length** 30.00

## Bushings

Pkg. 10

**140374** Bushing
**Replacing:** 2108-3708405
**Servicing:** 2103-12VIP54, 2108-3708010, 293708, KAT3K29.3708, KAT3K35.3708
**ID** 12.00, **OD/collar** 22.95, **OD** 16.00, **Length** 19.40, **Height/collar** 2.60
**Alternative no.:** B140374



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Pkg. 10

**140626** Bushing

**ID** 14.40, **OD** 15.10, **Length** 25.90

Pkg. 100

**B140374** Bushing

**Replacing:** 2108-3708405

**ID** 12.05, **OD/collar** 23.00, **OD** 16.00, **Length** 19.40, **Height/collar** 2.52

**Alternative no.:** 140374

## Sundry Parts

### O-rings

Pkg. 5

**136630** O-ring

**Servicing:** 2103-12VIP54, 2108-3708010, 293708, KAT3K29.3708

**ID** 92.00, **Thickness** 3.00



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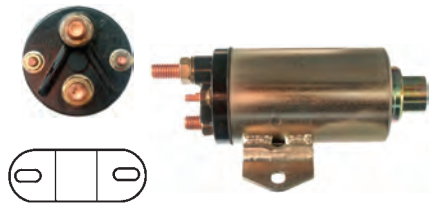
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Solenoids

### 24 V



**132140** Solenoid

**Replacing:** 77452

24 **V**, **B+** M14-1.50, **Kl. 15a** M6, **Kl. 50** M6, **OD** 76.00, **OD/cover** 76.35, **Total length** 216.50, **Height/B+** 33.00, **Width/kl. 15a** 18.30, **Width/kl. 50** 17.75, **Coil bolt** M14-1.50, **Coil bolt 2** 24.60, **No./terminals** 4

*Cap: HC-CARGO 132141. Moving contact: HC-CARGO 132142. Insulated return.*

## Solenoid Parts

### Solenoid Caps

**132141** Solenoid Cap

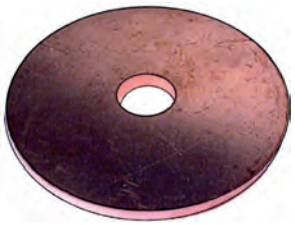
**Replacing:** 98004, 225014

**OD** 76.55, **No./terminals** 2

*HC-CARGO 132140, 133986.*

### Moving Contacts

Pkg. 5



**132142** Contact Plate

**Replacing:** 77461

**Thickness** 3.00, **Width** 50.15,

*12/24 V.*

### Various

**136412** Rubber Boot

**Replacing:** 95146, 77491, 71163, 225313

**OD** 52.35, **Length** 43.35

## Drives

**130535** Drive

**Replacing:** 04231

**ID** 12.00, **OD** 25.10, **OD/housing** 46.25, **Total length** 72.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**Best Choice**

**130539** Drive

**Replacing:** 77600

**Servicing:** 40MT, 42MT, 50MT

**ID** 15.90, **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR

*Bronze.*

**Alternative no.:** 130539Z

**130539Z** Drive

**Replacing:** 77600

**ID** 15.90, **OD** 56.50, **OD/housing** 58.25, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 130539

**131056** Drive

**Replacing:** 77601, 04489

**Servicing:** 40MT, 42MT, 50MT

**ID** 15.90, **OD** 46.20, **OD/housing** 57.65, **Total length** 120.40, **Splines A** 19, **No./teeth** 12, **Rotation** CR

**131766** Drive

**Replacing:** M0290-75249, M0290-71031, M0290-4472

**Servicing:** 40MT

**ID** 19.00 (3/4"), **OD** 46.30, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 12, **Rotation** CR

*Bronze.*

**131768** Drive

**Replacing:** M029097222, M0290-73493, 97222, 74977, 73493, 71157

**Servicing:** 40MT

**ID** 19.00 (3/4"), **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 11, **Rotation** CR

**132731** Drive

**Replacing:** 64235

**Servicing:** 40MT, 42MT, 50MT

**ID** 15.75, **OD** 56.30, **OD/housing** 58.00, **Total length** 120.70, **Splines A** 19, **No./teeth** 11, **Rotation** ACR

*Bronze.*



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**232632** Drive

**Replacing:** M029075429, 75249

**Servicing:** 7146MA, 7146MB, 7150MA, 7168MA, 7176MA, 7178MA, 7202MA, 7204MA, 7222M, 7226M, 7230MA, 7258M

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Rotation** CR

**Alternative no.:** 333858

**233175** Drive

**Replacing:** 18-56

**Servicing:** 4502ME, 4503ME, M0014502ME, M0014503ME

**ID** 14.30, **OD** 32.10, **OD/housing** 60.00, **Total length** 106.00, **Splines A** 6, **No./teeth** 10, **Rotation** CR

**333858** Drive

**Replacing:** M029075429, 75249

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 232632

## Bushings

Pkg. 10

**141143** Bushing

**Replacing:** 850141

**Servicing:** 38401, 98401, M027098401

**ID** 19.10, **OD** 25.45, **Length** 19.00

Pkg. 10

**141144** Bushing

**Servicing:** 73644, 98644, M027098644

**ID** 22.25, **OD** 28.65, **Length** 29.90

## Sundry Parts

### O-rings

Pkg. 10

**134488** O-ring

**Replacing:** 57597

**Thickness** 2.00

## Armatures

### 12 V

**130195** Armature

**Replacing:** TIB115, 272334, 271737

**Servicing:** M45G, 26132, 26132A, 26132F, 26133, 26133A, 26133J, 26143A, 26143H, 26145A, 26145F, 26146A, 26146F, 26147A, 26147H

12 **V**, 2.1 **kW**, **Shaft length** 338.00, **Core thickness** 74.50, **No./splines** 6, **Rotation** CR

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**130200** Armature

**Replacing:** TJB103, SAR0002, 54243590, 26252339

**Servicing:** M50G, 26025007A, 26211U, 26213, 26227N, 26227R, 26227V, 26246M, 26265, 26265J, 26265M, 26273, 26273E, 26273F, 26273H

12 **V**, 2.8 **kW**, **Shaft length** 303.40, **Core thickness** 84.00, **No./splines** 12, **Rotation** CR
*Shaft: HC-CARGO 136811.*

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**130202** Armature

**Replacing:** TIB108, SAR0017, 54292953, 54247379

**Servicing:** M45G, 26148, 26186, 26196, 26213A, 26215H, 26233, 26236L, 26238M, 26238Q, 26248M, 26256, 26256H, 26259, 26259L, 26259N

12 **V**, 2.1 **kW**, **Shaft length** 303.60, **Core thickness** 74.50, **No./splines** 12, **Rotation** CR
*Shaft: HC-CARGO 136811.*

---

**130203** Armature

**Replacing:** TGB100, 54247935, 54247556, 54247025, 54246544, 54246418, 54241719

**Servicing:** M35J, 25137, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25156A, 25156H, 25156J

12 **V**, 0.8 **kW**, **Shaft length** 249.60, **Core thickness** 54.00, **No./splines** 12, **Rotation** CR

---

**130205** Armature

**Replacing:** TIB113, SAR0008, 54251818

**Servicing:** M45G, 26072, 26132H, 26132J, 26132R, 26133K, 26133R, 26143J, 26143Q, 26145, 26145H, 26145N, 26146H, 26146N, 26147J

12 **V**, 2.1 **kW**, **Shaft length** 340.00, **Core thickness** 74.45, **No./splines** 6, **Rotation** CR

---

**130206** Armature

**Replacing:** TGB107, 54260640, 54252038

**Servicing:** M35J, 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25138, 25147, 25147A, 25147B

12 **V**, 0.8 **kW**, **Shaft length** 290.50, **Core thickness** 53.80, **No./splines** 4

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**130210** Armature

**Replacing:** TJB106, SAR0010, 54257635

**Servicing:** M50, 26211, 26211A, 26211L, 26227, 26291

12 **V**, 2.8 **kW**, **Shaft length** 303.30, **Core thickness** 84.00, **No./splines** 3, **Rotation** CR

---

**130360** Armature

**Replacing:** 074861761010

**Servicing:** 063220732010, 063220735010, 063220740010, 063220741010, 063220743010, 063220744010, 063220746010, 063220830010

12 **V**, 0.8 **kW**, **Shaft length** 250.00, **Core thickness** 54.40, **No./splines** 12, **Rotation** CR

---

**130878** Armature

**Replacing:** TJB104, SAR0003, 54243592

**Servicing:** M50, 26234A, 26234J, 26234K, 26284, 26284A, 26284D, 26284E, 26336, 26336A, 26336F, 26336H, 26336Q, 26336R, 26337A

12 **V**, 2.8 **kW**, **Shaft length** 331.00, **Core thickness** 84.00, **No./splines** 12, **Rotation** CR

---

**131652** Armature

**Replacing:** THB101, 54246290, 54246259, 54245090

**Servicing:** 2M100, 25629A, 25629E, 25634A, 25634E, 25638A, 25638E, 25639A, 25639E, 25642, 25642A, 25642F, 25643, 25643A, 25643J

12 **V**, 1.1 **kW**, **Shaft length** 272.50, **Core thickness** 61.00, **No./splines** 12, **Rotation** CR

---

**131654** Armature

**Replacing:** TIB112, SAR0007, 54251052

**Servicing:** M45G, 26125, 26126, 26156, 26163, 26163A, 26163F, 26165, 26373

12 **V**, 2.1 **kW**, **Shaft length** 319.35, **Core thickness** 74.50, **No./splines** 4, **Rotation** CR

---



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## 131655 Armature

**Replacing:** TIB114, SAR0009, 54255952

**Servicing:** M45G, 26125F, 26208A, 26208E, 26215A, 26215F, 26236A, 26236K, 26238A, 26238L, 26248A, 26248L, 26256, 26256A, 26256E

12 **V**, 2.1 **kW**, **Shaft length** 302.00, **Core thickness** 75.00, **No./splines** 3

## 131656 Armature

**Replacing:** TIB109, SAR0004, 54247383

**Servicing:** M45G, 26233K, 26233M, 26286, 26286F, 26286J, 26302E, 26302H, 26320D, 26320J, 26333B, 26335A, 26348A, 26348D, 27419

12 **V**, 2.1 **kW**, **Shaft length** 331.00, **Core thickness** 74.45, **No./splines** 12, **Rotation** CR

## 131668 5★ Armature

**Manufacturer:** Magneti Marelli

**Replacing:** 074880991010

**Servicing:** 063221330010, 063221332010, 063221538010

12 **V**, 0.9 **kW**, **Shaft length** 220.00, **Core thickness** 60.00, **No./splines** 12, **Rotation** CR

## 131670 Armature

**Replacing:** 072382301010

**Servicing:** 063217104010, 063217105010, 063217173010

12 **V**, 2.5 **kW**, **Shaft length** 296.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

## 132401 Armature

**Replacing:** TJB112, SAR0014, 54268555

**Servicing:** M127, 26349, 26416, 26508, 27508A, 27508B, 27508D, 27509A, 27509B, 27512, 27512A, 27512D, 27533, 27533A, 27533E, 27543

12 **V**, 2.8/2.9 **kW**, **Shaft length** 333.00, **Core thickness** 83.96, **No./splines** 12, **Rotation** CR

## 132486 Armature

**Replacing:** SAAR6001, LTH207

12 **V**, 2 **kW**, **Shaft length** 152.00, **Core thickness** 53.20, **No./teeth** 9, **Rotation** CR/ACR

**Alternative no.:** F032132486

## 132615 Armature

**Replacing:** 074893711010

**Servicing:** 063101003010, 063221830010, 063221832010, 063221834010, 063221890010, 063221892010

12 **V**, 0.8 **kW**, **Shaft length** 185.50, **Core thickness** 60.00, **No./splines** 12, **Rotation** CR

## 132817 Armature

**Replacing:** 074899021010

**Servicing:** 063114014010, 063222035010

12 **V**, 2.2 **kW**, **Shaft length** 134.20, **Core thickness** 58.95, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** F032132817

## 133302# Armature

**Replacing:** TGB123, 54290615, 054290615010

**Servicing:** M80, 063226908010, 063226912010, 063226921010, 063226923010, 063226935010, 063226936010, 063226937010, 063226939010

12 **V**, 1.7 **kW**, **Shaft length** 144.00, **Core thickness** 53.90, **No./teeth** 12, **Rotation** CR

## 133305 Armature

**Replacing:** TGB122, 54291945

**Servicing:** M79, 26587, 26600, 26600E, 26600F, 26601, 26601E, 26601F, 26602, 26602D, 26602H, 26605, 26605A, 26609F, 26609J, 26613E

12 **V**, 0.8 **kW**, **Shaft length** 201.80, **Core thickness** 53.50, **No./splines** 9, **Rotation** CR

## 133368 Armature

**Replacing:** TJB114, TJB113, TJB111, SAR0016, 54292376, 54268382, 26253757, 054292376010

**Servicing:** M127, 063227501010, 063227502010, 063227510010, 063227518010, 063227541010, 063227547010, 063227553010, 063227554010

12 **V**, 2.8 **kW**, **Shaft length** 302.40, **Core thickness** 84.00, **No./splines** 12, **Rotation** CR



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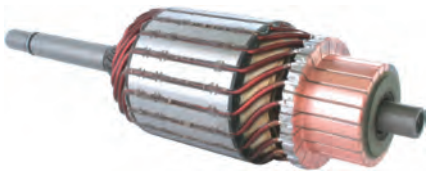
## 134736 Armature

**Replacing:** SAAR6000, LTH107

**Servicing:** 61924101, 61924102

12 **V**, 0.8 **kW**, **Shaft length** 183.10, **Core thickness** 60.00, **No./splines** 8, **Rotation** CR



## 135620 Armature

**Replacing:** 083227678010, 083225127010

**Servicing:** 063101000010, 063101002010, 063101008010, 063102003010, 063102004010, 063102007010, 063102008010, 063103022010

12 **V**, 1 **kW**, **Shaft length** 202.40, **Core thickness** 51.45, **No./splines** 12, **Rotation** CR

**Alternative no.:** F032135620

## 135815 Armature

**Replacing:** TGB125, 54290870, 054290870010

**Servicing:** M78R, 063226800010, 063226801010, 063226803010, 063226804010, 063226812010, 063226814010, 063226820010, 063226823010

12 **V**, 1.4 **kW**, **Shaft length** 119.00, **Core thickness** 53.95, **No./splines** 12, **Rotation** CR/ACR

## 135869 Armature

**Replacing:** TIB107, SAR0005, 54248609, 26255073

**Servicing:** 2M113, 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 26394A, 26394D, 26925188D, 26925189D, 26925194D

12 **V**, 2.1 **kW**, **Shaft length** 302.20, **Core thickness** 74.50, **No./splines** 12, **Rotation** CR

## 136319# Armature

**Replacing:** TGB130, 54292575, 54292574, 054292574010

**Servicing:** M79, 063226693010, 063226694010, 26660, 26690, 27034

12 **V**, 0.8 **kW**, **Shaft length** 225.10, **Core thickness** 53.75, **No./splines** 9, **Rotation** ACR

## 136963# Armature

**Replacing:** TGB128, 54292192, 054292192010

**Servicing:** M79, 063226686010, 063227048010, 063227049010, 26648, 26649, 26655, 26656, 26657

12 **V**, 0.8/0.9 **kW**, **Shaft length** 214.30, **Core thickness** 53.65, **No./splines** 9, **Rotation** CR

## 137363 Armature

**Replacing:** TJB115, SAR0015, 54269554, 054269554010

**Servicing:** M127, 063227564010, 27544A, 27564A, 27564F, 27595, 61924045

12 **V**, 2.8 **kW**, **Shaft length** 330.00, **Core thickness** 84.15, **No./splines** 12, **Rotation** CR

## 137530# Armature

**Replacing:** TGB127, 54292178

**Servicing:** M79, 26607, 26607E, 26607H, 26692, 26696, 27037, 27044, 27045

12 **V**, 1 **kW**, **Shaft length** 214.20, **Core thickness** 53.75, **No./splines** 9, **Rotation** ACR

## 138443 Armature

**Replacing:** 54295331, 054295331010

**Servicing:** 063223103010, 063223104010, 063230001010, 063230003010, 063293103010, 063293104010

12 **V**, 0.8 **kW**, **Shaft length** 218.45, **Core thickness** 51.55, **No./splines** 12, **Rotation** ACR

## 138526 5★ Armature

**Manufacturer:** Magneti Marelli

**Replacing:** 54294569, 083227126010

**Servicing:** 063111005010, 063111007010, 063111008010, 063111009010, 063111016010, 063111017010, 063111023010, 063111027010

12 **V**, 1.4 **kW**, **Shaft length** 120.00, **Core thickness** 47.45, **No./teeth** 11

## 233740 Armature

**Replacing:** TIB110, SAR0006, 54248981

**Servicing:** M45, 26268J, 26268L, 26269H, 26269L, 26346E, 26346K, 26381E, 26381F, 26383A, 26383D, 26396A, 26396B, 27405A, 27405B

12 **V**, 2.1 **kW**, **Shaft length** 306.00, **Core thickness** 74.40, **No./splines** 12, **Rotation** CR

## 235469 Armature

**Replacing:** 083225702010

**Servicing:** 063223039010

12 **V**, 0.9 **kW**, **Shaft length** 195.30, **Core thickness** 51.60, **No./splines** 12



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## 24 V

### 132402# Armature

**Replacing:** TJB102, 54249001

**Servicing:** 3M127, 27301A, 27301H, 27304A, 27304J, 27305A, 27305H, 27307A, 27307E, 27309A, 27309E, 27310A, 27310F, 27311A, 27311E

24 **V**, **Shaft length** 356.10, **Core thickness** 84.20, **No./splines** 12, **Rotation** CR

### 132951 Armature

**Replacing:** 072386601010

**Servicing:** 063216703010, 063216726010

24 **V**, 4 **kW**, **Shaft length** 321.00, **Core thickness** 74.90, **No./splines** 12, **Rotation** CR

## Armature Parts

### Various

### 136811# Armature Shaft

**Servicing:** M45G, 54243590, 54247379

**OD/shaft** 12.80, **Total length** 302.00, **No./splines** 12

### B134583# Commutator

**Replacing:** B134583

**Bar dist.** 2.45, **Bar cross dist.** 40.25, **ID** 12.85, **ID/bar lane** 37.40, **OD** 52.25, **Bar length** 5.35, **Height/bar** 5.20, **Height/bar lane** 20.00, **Total height** 27.80, **No./bars** 29

### B139876# Commutator

**Replacing:** B139876

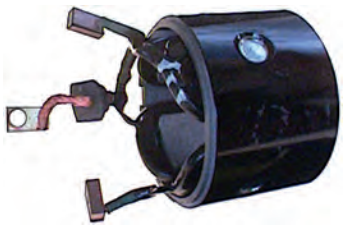
**Bar dist.** 1.90, **Bar cross dist.** 46.95, **ID** 17.45, **ID/bar lane** 45.15, **OD** 69.15, **Bar length** 11.25, **Height/bar** 6.25, **Height/bar lane** 19.75, **Total height** 29.10, **No./bars** 33

## Field Cases

### 135784 Field Case

**Replacing:** SSP0036, LTH212, 61240701

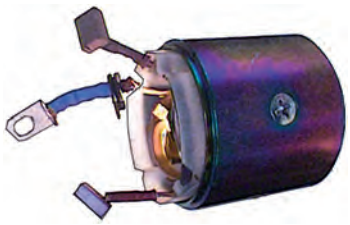
12 **V**, 2 **kW**, **OD/middle** 81.50, **Length** 75.60, **Brush gear** w/o



### 136135 Field Case

**Replacing:** SSP0035, LTH108, 61240731

12 **V**, 0.8 **kW**, **OD/middle** 89.50, **Length** 62.00, **Brush gear** w/o



### 136143 Field Case

**Replacing:** 083220991010

**Servicing:** 063223032010

12 **V**, 0.8/1 **kW**, **OD/middle** 80.45, **Length** 76.00, **Brush gear** w/o

### 138536# Field Case

**Replacing:** 083225146010

**Servicing:** 063101000010, 063101002010, 063101008010, 063222889010, 063222908010, 063222909010, 063222936010, 063223104010

12 **V**, 0.8 **kW**, **OD/middle** 80.50, **Length** 70.60, **Brush gear** w/o

*Field coil: HC-CARGO 135621. Brush: HC-CARGO JSX38-412.*

### 139625 Field Case

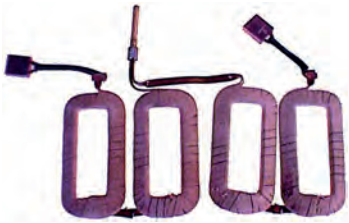
**Replacing:** 083226564010

**Servicing:** 063114014010

12 **V**, 2.6 **kW**, **OD/middle** 94.50, **Length** 75.25, **Brush gear** w/o*Field coil: HC-CARGO 234092. Brush set: HC-CARGO JSX53-54.*

## Field Coils

### 12 V



### 130194 Field Coil

**Replacing:** TEB134, SFC0001, 54266045, 272219, 271826

**Servicing:** M45G, 26125, 26126, 26132, 26132A, 26132F, 26132H, 26132J, 26132R, 26133K, 26133R, 26143A, 26143H, 26143J, 26143Q

12 **V**, 2.1 **kW**, **Height** 119.25, **Width** 246.65, **Internal height** 75.40, **Inner width** 27.90

## 130196 Field Coil

**Replacing:** TEB132, TEB118, TEB104, SFC0008, SFC0003, SFC0002, 60600054, 54290953, 54266044, 54263486, 54263217

**Servicing:** M45G, 063227408010, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227419010, 063227470010

12 **V**, 2.1 **kW**, **Height** 118.00, **Width** 231.55, **Internal height** 75.65, **Inner width** 28.00

## 130201 Field Coil

**Replacing:** TEB129, SFC0006, 54245574, 54244973

**Servicing:** M50, 26273, 26273A, 26273D, 26273E, 26273F, 26273H, 26273M, 26274, 26274A, 26274D, 26274E, 26274F, 26274H, 26274N

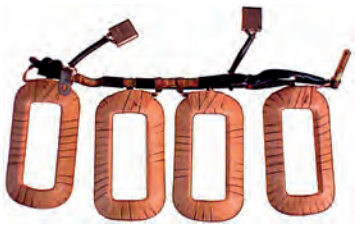
12 **V**, 2.8 **kW**, **Height** 126.00, **Width** 289.45, **Internal height** 74.80, **Inner width** 31.00

## 130213 Field Coil

**Replacing:** TEB128, SFC0007, 54258818, 54245576, 54245079, 245079

**Servicing:** M50, 26227A, 26227N, 26227Q, 26227R, 26227V, 26234A, 26234J, 26234K, 26246A, 26246L, 26246M, 26265, 26265J, 26265M

12 **V**, 2.8 **kW**, **Height** 125.50, **Width** 285.00, **Internal height** 74.75, **Inner width** 31.00



## 130882 Field Coil

**Replacing:** TEB105, SFC0005, 60600018, 54244748

**Servicing:** M50, 26316, 26329, 26331E, 26338, 26338A, 26338B, 26338D, 26338E, 26338F, 26339, 26339A, 26339B, 26339D, 26339H, 26339K

12 **V**, 2.8 **kW**, **Height** 126.00, **Width** 285.60, **Internal height** 74.70, **Inner width** 30.55

## 131474 5★ Field Coil

**Manufacturer:** Magneti Marelli

**Replacing:** 072166001010

**Servicing:** 063217148010, 063217154010, 063217188010, 063217410010

12 **V**, 2.5 **kW**, **Height** 105.55, **Internal height** 70.25, **Inner width** 27.30

## 131680 Field Coil

**Replacing:** 072142401010

**Servicing:** 063217118010

12 **V**, 2.5 **kW**, **Height** 119.90, **Internal height** 73.00, **Inner width** 27.45

## 132400 Field Coil

**Replacing:** TEB144, SFC0010, 54294392, 54268462, 054294392010

**Servicing:** M127, 063227501010, 063227502010, 063227510010, 063227512010, 063227518010, 063227533010, 063227541010, 063227547010

12 **V**, 2.8 **kW**, **Height** 127.90, **Width** 279.45, **Internal height** 74.40, **Inner width** 30.70

*Brush set: HC-CARGO LASX364.*

## 134044 Field Coil

**Replacing:** 074880921010

**Servicing:** 063221330010, 063221332010, 063221333010, 063221335010, 063221431010, 063221534010, 063221535010, 063221633010

12 **V**, 0.9 **kW**, **Height** 78.40, **Internal height** 41.35, **Inner width** 19.95

## 135200 Field Coil

**Replacing:** TEB142, SFC0009, 54294400, 54268395, 054294400010

**Servicing:** M127, 063227569010, 26213, 26330, 26925155B, 27500, 27500A, 27500J, 27561B, 27569A

12 **V**, 2.8 **kW**, **Height** 127.20, **Width** 287.00, **Internal height** 74.75, **Inner width** 30.75

### 24 V

## 131473 Field Coil

**Replacing:** 072165901010

**Servicing:** 063216731010, 063216741010

24 **V**, 4 **kW**, **Height** 122.55, **Internal height** 88.40, **Inner width** 28.65

### C.E. Brackets

## 136118 C.E. Bracket

**Replacing:** 54250082

**Servicing:** M45G, 26125, 26126, 26132, 26132J, 26132R, 26133, 26133A, 26133J, 26133K, 26133R, 26145, 26146, 26146A, 26146F, 26146H

*Brush set: HC-CARGO LASX15-164. Brush spring: HC-CARGO 132209.*



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**136163** 5★ C.E. Bracket
**Manufacturer:** Marelli
**Replacing:** 072163904010, 072163903010
**Servicing:** 063216741010, 063216896010, 063217148010, 063217158010, 063217410010
**ID** 105.00

**136223** 5★ C.E. Bracket
**Manufacturer:** Marelli
**Replacing:** 072163901010
**Servicing:** 063216731010, 063216831010, 063216861010, 063217126010, 063217226010
**ID** 106.00

**136975** 5★ C.E. Bracket
**Manufacturer:** Marelli
**Replacing:** 072163902010
**ID** 106.00

**137049** C.E. Bracket
**Replacing:** 54257605
**Servicing:** M50, 26211A, 26211L, 26211M, 26211T
*w/o brushes and springs. Brush set: HC-CARGO LASX364. Brush spring: HC-CARGO 132209.*

**137050** C.E. Bracket
**Replacing:** 54255957
**Servicing:** M45G, 26148, 26186, 26196, 26208A, 26208E, 26215A, 26215F, 26215H, 26233, 26233A, 26233J, 26233K, 26233M, 26256A
*w/o brushes and springs. Brush set: HC-CARGO LASX15-164. Brush spring: HC-CARGO 132209.*

**137219** C.E. Bracket
**Replacing:** SBR6901
**Servicing:** 61924100
**ID** 76.50

**137719** C.E. Bracket
**Replacing:** 54246655, 54244980, 54242829, 054242829010
**Servicing:** M50, M127, 063227502010, 063227512010, 063227559010, 063227578010, 063227583010, 063227594010, 063227599010, 26213

**138346** C.E. Bracket
**Replacing:** 54290516, 54265874, 54265871, 54263852, 52265874, 054263852010
**Servicing:** 2M113, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227475010, 063227478010, 063227486010
**ID** 108.00

**138556** C.E. Bracket
**Replacing:** 083225135010
**Servicing:** 063101000010, 063101002010, 063101008010, 063102003010, 063102004010, 063102007010, 063102008010, 063103002010
**ID** 75.00

**231000** C.E. Bracket
**Replacing:** SBR6900
**Servicing:** 61924101, 61924102
**ID** 84.50

**231941** C.E. Bracket
**Replacing:** 083226889010
**Servicing:** 063114014010
**ID** 91.00

## D.E. Brackets

**135485** D.E. Bracket
**Replacing:** LTH104
**Servicing:** 61924101



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**135764** D.E. Bracket

**Replacing:** SBR0002, SBR0001, 54264664, 54264662, 54249109, 085541475010

**Servicing:** M50, 063227569010, 26213, 26316, 26329, 26330, 26338, 26338D, 26338F, 26339, 26339A, 26339B, 26339D, 26339H, 26379

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**136863** D.E. Bracket

**Replacing:** 54293053, 54293052, 54266603, 54242076

**Servicing:** M45, 26264, 26412, 27409, 27432, 27459, 27469, 27469A, 27470, 27474, 27480, 27488

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**136864** D.E. Bracket

**Replacing:** 54266596, 54265072

**Servicing:** M45G, 2M113, 26198, 26281, 26295A, 26295B, 26295D, 26295E, 26295F, 26295M, 26298A, 26298B, 26298D, 26298E, 26298F

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**136871** D.E. Bracket

**Replacing:** 54266597, 054266597010

**Servicing:** M45G, 2M113, 063227416010, 063227478010, 063227486010, 063227491010, 26148, 26196, 26283, 26375, 26422, 27417, 27435

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**136875**# D.E. Bracket

**Replacing:** 54264889

**Servicing:** M50, M127, 26349, 26349D, 26349H, 26416, 26416A, 26416D, 27543

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**136876** D.E. Bracket

**Replacing:** 54269202, 054269202010

**Servicing:** M50, M127, 063227512010, 26342, 27587

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**136877** D.E. Bracket

**Replacing:** 54265251, 54242188

**Servicing:** M50, M127, 26265J, 26265M, 26311, 26341, 26360, 26431, 27511, 27554

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**136878** D.E. Bracket

**Replacing:** 54265121, 054265121010

**Servicing:** M50, M127, 063227578010, 063227583010, 063227594010, 063227599010, 26274, 26274A, 26274D, 26323, 26345, 26345A, 26345B

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**136879** D.E. Bracket

**Replacing:** 54265377

**Servicing:** M50, M127, 27508, 27575, 27586, 27604

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**138351** D.E. Bracket

**Replacing:** 61240176, 54293977, 54265243, 085541472010

**Servicing:** M50, M127, 063227565010, 063227590010, 063227598010, 27541, 27568, 27599, 27602, 27608, 27627, 27627B

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**138434** D.E. Bracket

**Replacing:** 54293976, 54244390

**Servicing:** M127-2.8 KW, 26294, 26357, 26369, 27502, 27506, 27518, 27518A, 27570, 27585, 27588, 27592, 27596

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**139032** D.E. Bracket

**Replacing:** 54292157, 085541468010

**Servicing:** M127, 063227564010, 26284, 26284E, 27595

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**139629** 5★ D.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 083226888010

**Servicing:** 063114014010

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**233876** D.E. Bracket

**Replacing:** 54266594

**Servicing:** 2M113, 27410, 27413, 27423, 27463

**233877#** D.E. Bracket

**Replacing:** 54266599

**Servicing:** 2M113, 27419, 27476

## I.M. Brackets

**138348** I.M. Bracket

**Replacing:** 54263768

**Servicing:** 27400, 27400A, 27400B, 27401, 27401A, 27401B, 27402, 27402A, 27402B, 27409, 27409A, 27409B, 27410, 27410A, 27411

**ID** 28.50

**138349** I.M. Bracket

**Replacing:** 60600029, 54258129

**Servicing:** 26236A, 26236K, 26236L, 26238A, 26238L, 26238M, 26238Q, 26248A, 26248L, 26248M, 26256, 26259, 26259A, 26259K, 26259L

**ID** 28.50

**138350** I.M. Bracket

**Replacing:** SRB807, 60600019, 54261382, 54249083, 54249079

**Servicing:** 26213, 26273H, 26273M, 26274H, 26274N, 26294, 26294F, 26294N, 26295, 26295F, 26295M, 26297F, 26297J, 26298F, 26298J

**ID** 28.50

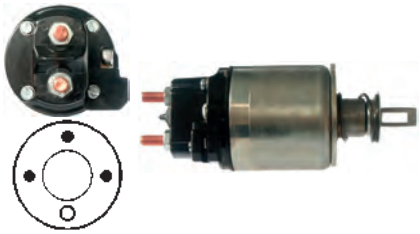
**231196** I.M. Bracket

**Replacing:** SBR6800, LTH205

**Servicing:** 61924100

## Solenoids

### 12 V

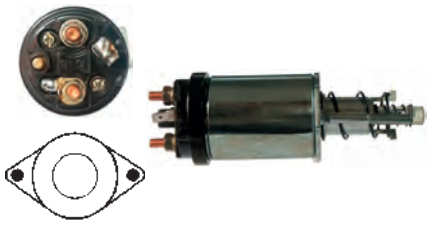


**130373** Solenoid

**Replacing:** 063602290010

**Servicing:** 063224600010, 063224602010, 063224691010

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 68.45, **OD/cover** 67.00, **Total length** 179.55, **Height/B+** 20.90, **Coil bolt** M8, **Coil bolt 2** 20.90, **No./terminals** 3
*Cap: HC-CARGO 131327.*

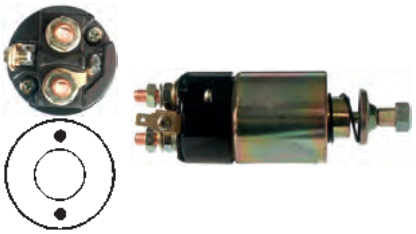


**130484** Solenoid

**Replacing:** TOB191, TOB190, TOB157, TOB135, TOB130, TOB112, 77084, 77083, 77082, 77080, 77078, 77074, 77072

**Servicing:** M35J, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25153A, 25153H, 25156, 25156A

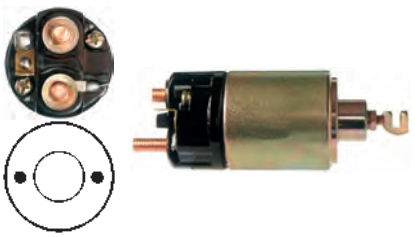
12 **V**, **B+** M6, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 20.75, **OD** 47.00, **OD/cover** 51.50, **Total length** 150.50, **Height/B+** 14.40, **Width/kl. 15a** 8.20, **Width/kl. 50** 15.15, **Coil bolt** M6, **Coil bolt 2** 14.40
*Cap: HC-CARGO 130953.*



**130811** Solenoid

**Replacing:** TOJ101

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.90, **OD/cover** 49.65, **Total length** 143.50, **Height/B+** 16.45, **Width/kl. 50** 11.40, **Coil bolt** M8, **Coil bolt 2** 16.50, **No./terminals** 3
*Cap: HC-CARGO 134619.*



**130814** Solenoid

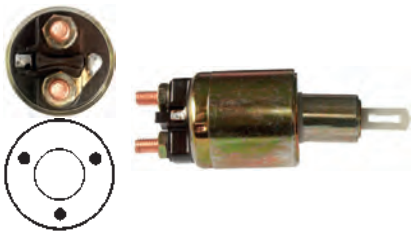
**Replacing:** TOJ400

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.85, **OD/cover** 49.80, **Total length** 137.60, **Height/B+** 18.35, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 8.60, **No./terminals** 3
*Cap: HC-CARGO 134627.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

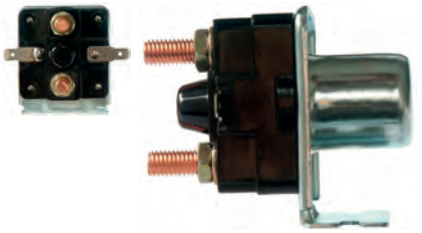


## 130830 Solenoid

**Replacing:** 063633601010

**Servicing:** 063216808010, 063216826010, 063216873010, 063217104010, 063217105010

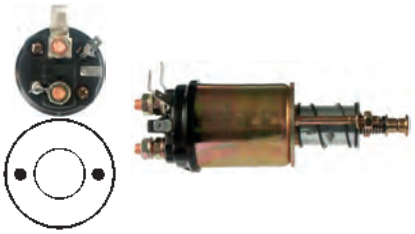
12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.60, **OD** 61.10, **OD/cover** 53.55, **Total length** 142.55, **Height/B+** 21.00, **Width/kl. 50** 9.45, **Coil bolt** M10, **Coil bolt 2** 21.00, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*



## 130853 Solenoid

**Replacing:** SRB335, 77126, 77055, 76986, 76914, 76858, 76799, 76798, 76795, 76789, 76777, 76771, 76770, 76711

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.50, **Total length** 78.65, **Height/B+** 19.65, **Width/kl. 50** 22.55, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 4

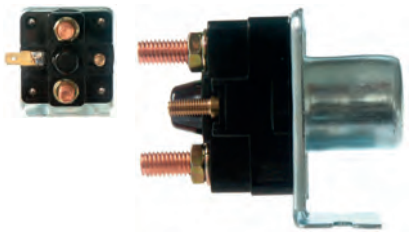


## 130855 Solenoid

**Replacing:** TOB174, TOB162, TOB109, SSL0001, 77892, 77058, 77034, 76996, 76902, 76897, 76892, 76891, 76885

**Servicing:** M45G, 063227413010, 063227415010, 063227416010, 063227419010, 063227421010, 063227425010, 063227460010, 063227468010

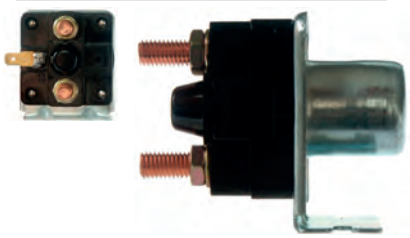
12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 30h** 9.40, **Kl. 50** 6.30, **OD** 53.80, **OD/cover** 59.25, **Total length** 172.75, **Height/B+** 21.00, **Width/kl. 15a** 13.45, **Width/kl. 30h** 15.25, **Width/kl. 50** 10.70, **Coil bolt** M8, **Coil bolt 2** 21.00, **No./terminals** 3
*Cap: HC-CARGO 131274.*



## 130856 Solenoid

**Replacing:** SRB333, 76958

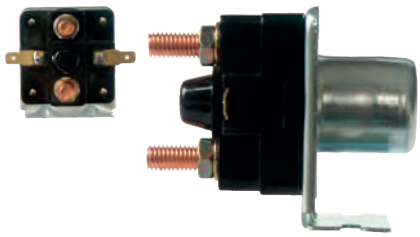
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.45, **Total length** 78.35, **Height/B+** 19.65, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 4



## 130872 Solenoid

**Replacing:** SRB325, 76776, 76773, 76772, 76767, 76766, 76722, 76715, 76703, 76486, 76485, 76471, 76470, 76469

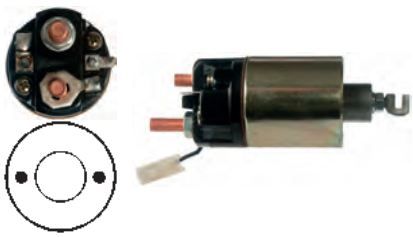
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.40, **Total length** 78.00, **Height/B+** 19.55, **Width/kl. 50** 20.65, **Coil bolt** M8, **Coil bolt 2** 19.55, **No./terminals** 3



## 130951 Solenoid

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.45, **Total length** 78.45, **Height/B+** 19.50, **Width/kl. 50** 23.00, **Coil bolt** M8, **Coil bolt 2** 19.50, **No./terminals** 4
*Insulated return.*

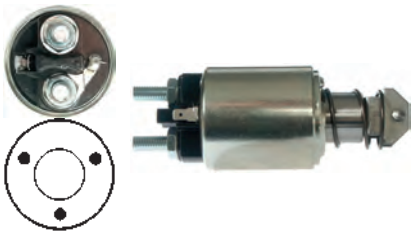
**Alternative no.:** 233955



## 131084 Solenoid

**Replacing:** TOJ401

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.20, **OD/cover** 49.25, **Total length** 141.80, **Height/B+** 23.75, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 10.50, **No./terminals** 4
*Cap: HC-CARGO 131374.*

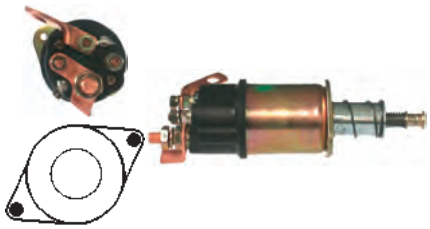


## 131112 Solenoid

**Replacing:** 085540221010, 085540011010, 063633806010

**Servicing:** 063216815010, 063216827010, 063216831010, 063216833010, 063216851010, 063216861010, 063216874010, 063216896010

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 61.00, **Total length** 159.00, **Height/B+** 20.70, **Width/kl. 50** 6.20, **Coil bolt** M10, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*

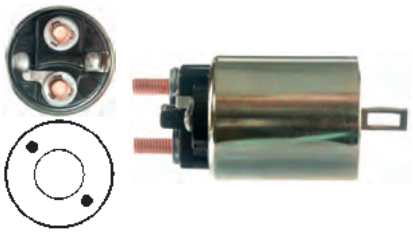


## 131121 Solenoid

**Replacing:** TPB137, TPB123, TOB165, TOB137, TOB125, TOB123, TOB122, 77163, 77119, 77115, 77054, 76997F, 76997

**Servicing:** M50, 26312D, 26312H, 26312J, 26312N, 26312Q, 26318A, 26318F, 26336, 26336A, 26336F, 26336H, 26336Q, 26336R, 26355

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 26.20, **OD** 53.70, **OD/cover** 60.40, **Total length** 207.20, **Height/B+** 30.95, **Width/kl. 50** 12.35, **Coil bolt** M6, **Coil bolt 2** 16.80, **No./terminals** 4
*Cap: HC-CARGO 131276.*



## 131144 Solenoid

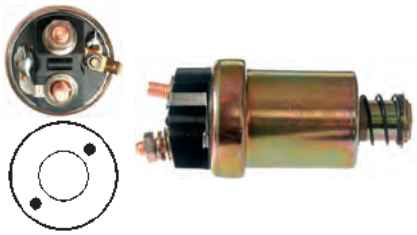
**Replacing:** TOJ104

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 21.85, **OD** 52.20, **OD/cover** 48.45, **Total length** 112.35, **Height/B+** 17.45, **Width/kl. 50** 15.55, **Coil bolt** M8, **Coil bolt 2** 18.55, **No./terminals** 3
*Cap: HC-CARGO 133269. Moving Contact: HC-CARGO 133270.*



O.E.M. names and numbers are used for reference purposes only.

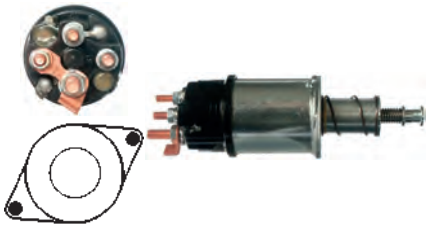
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 131208 Solenoid

**Replacing:** 77265

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 45.80, **OD/cover** 47.75, **Total length** 127.65, **Height/B+** 16.70, **Width/kl. 50** 9.25, **Coil bolt** M8, **Coil bolt 2** 9.80, **No./terminals** 3
*Cap: HC-CARGO 133768.*

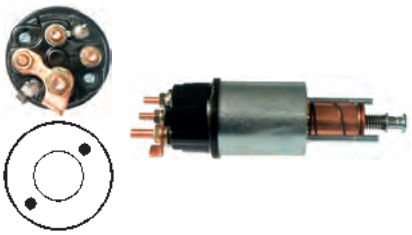


## 131247 Solenoid

**Replacing:** TOB183, 77040, 76926, 60933083, 263005

**Servicing:** M50, 26349, 26349A, 26349B, 26349D, 26349H, 26416, 26416A, 26416D, 26416E, 26434A, 26434B, 27543

12 **V**, **B+** M8, **Kl. 30h** M6, **Kl. 50** 6.30, **ID/cover** 25.60, **OD** 54.70, **OD/cover** 60.30, **Total length** 201.80, **Height/B+** 26.75, **Width/kl. 30h** 21.25, **Width/kl. 50** 15.25, **Coil bolt** M6, **Coil bolt 2** 10.80
*Cap: HC-CARGO 131275.*

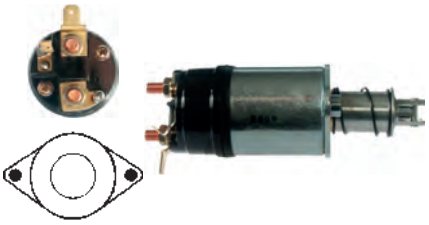


## 131248 Solenoid

**Replacing:** TOB184, TOB179, TOB133, TOB129, TOB111, TOB110, TOB108, SSL0013, 77052, 77032, 77025, 77010, 76956

**Servicing:** M50, 26211, 26211A, 26211L, 26211M, 26211T, 26211U, 26227, 26227A, 26227Q, 26227R, 26227V, 26234A, 26234J, 26234K

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 55.20, **OD/cover** 59.75, **Total length** 204.65, **Height/B+** 22.55, **Width/kl. 50** 14.35, **Coil bolt** M6, **Coil bolt 2** 18.10, **No./terminals** 4
*Cap: HC-CARGO 131275.*

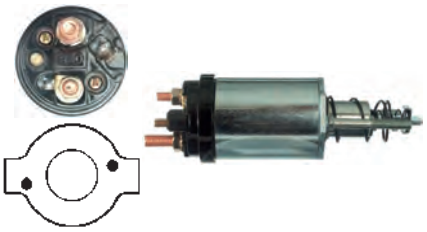


## 131252 Solenoid

**Replacing:** TOB154, TOB153, TOB152, TOB151, TOB100, 76808, 76794, 76759, 76758, 76748, 76727, 76712, 76540

**Servicing:** M45G, 25593A, 25593B, 25594A, 26133, 26133A, 26133J, 26133K, 26133R, 26145, 26145A, 26145F, 26145H, 26145N, 26146A

12 **V**, **B+** M8, **Kl. 30h** 9.40, **Kl. 50** 6.30, **ID/cover** 25.30, **OD** 55.10, **OD/cover** 57.65, **Total length** 172.50, **Height/B+** 15.75, **Width/kl. 30h** 15.10, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 14.30, **No./terminals** 3
*Cap: HC-CARGO 131264.*

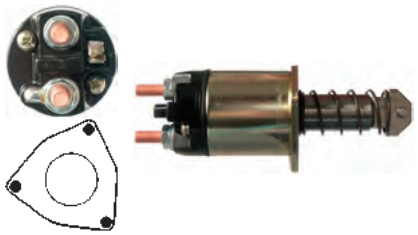


## 131255 Solenoid

**Replacing:** TPB101, TOB181, TOB160, 77033, 76886, 76882

**Servicing:** M35J, 25204, 25204A, 25204L, 25205A, 25205L, 25206, 25206A, 25206T, 25208A, 25208E, 25240A, 25249A, 25249F, 25250

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** 6.30, **ID/cover** 21.20, **OD** 46.95, **OD/cover** 51.35, **Total length** 159.70, **Height/B+** 21.20, **Width/kl. 30h** 8.00, **Width/kl. 50** 14.00, **Coil bolt** M6, **Coil bolt 2** 14.35, **No./terminals** 4
*Cap: HC-CARGO 130867, old type. Cap: HC-CARGO 131078, new type.*

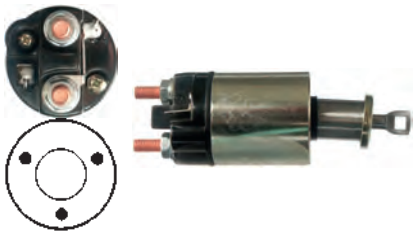


## 131437 Solenoid

**Replacing:** 085540281010

**Servicing:** 063220537010, 063220732010, 063220735010, 063220740010, 063220741010, 063220743010, 063220744010, 063220940010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 50.40, **OD/cover** 50.40, **Total length** 127.50, **Height/B+** 21.45, **Width/kl. 50** 13.95, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

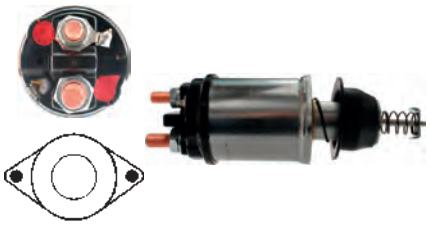


## 131589 Solenoid

**Replacing:** 085540071010

**Servicing:** 063221830010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.15, **OD** 50.15, **OD/cover** 50.15, **Total length** 124.55, **Height/B+** 20.60, **Width/kl. 50** 14.15, **Coil bolt** M8, **Coil bolt 2** 20.60, **No./terminals** 3
*Cap: HC-CARGO 132250. Moving Contact: HC-CARGO 132251.*

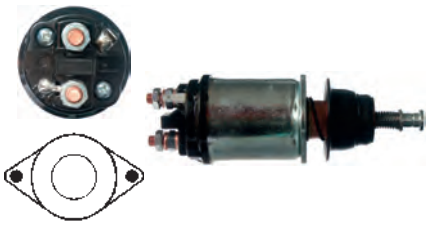


## 131785 Solenoid

**Replacing:** TPB133, TPB121, TPB120, TPB117, TOB182, SSL0004, 77173, 77149, 77147, 77140, 77036, 76994

**Servicing:** 2M113, M45G, 24534, 26390, 26390A, 26390B, 26390E, 26394, 26394A, 26394D, 27430, 27430A, 27430B, 27440, 27440A, 27440B

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 25.75, **OD** 54.75, **OD/cover** 60.00, **Total length** 186.20, **Height/B+** 23.80, **Width/kl. 50** 16.15, **Coil bolt** M8, **Coil bolt 2** 20.15, **No./terminals** 3
*Cap: HC-CARGO 132270.*



## 131786 Solenoid

**Replacing:** TPB131, TPB103, TOB145, TOB131, TOB128, TOB119, SSL0003, 77169, 77128, 77092, 77021, 77011, 76983

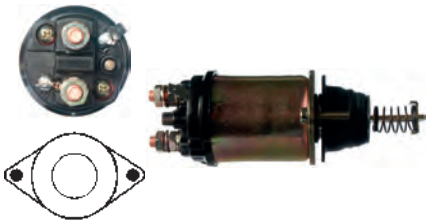
**Servicing:** 2M113, M45G, 26327, 26327A, 26327H, 26335, 26335A, 26348, 26348A, 26348D, 26362, 26362A, 26362E, 26364, 26364A, 26364F

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.40, **OD** 53.65, **OD/cover** 60.25, **Total length** 179.85, **Height/B+** 19.25, **Width/kl. 50** 15.35, **Coil bolt** M8, **Coil bolt 2** 19.25, **No./terminals** 3
*Cap: HC-CARGO 131015.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

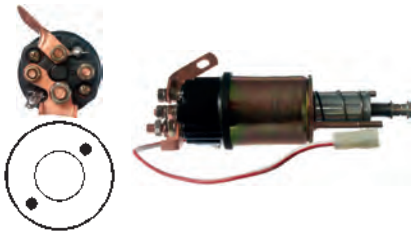


## 131787 Solenoid

**Replacing:** TPB109, TOB198, TOB169, TOB167, TOB164, TOB159, TOB147, TOB142, TOB138, TOB124, TOB117, TOB116

**Servicing:** M100, 25372, 25372A, 25374, 25374A, 25380, 25380A, 25382, 25382A, 25410, 25410A, 25629, 25629A, 25629E, 25634, 25634A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.35, **OD** 53.75, **OD/cover** 60.10, **Total length** 171.25, **Height/B+** 20.85, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 20.85, **No./terminals** 4
*Cap: HC-CARGO 130868.*

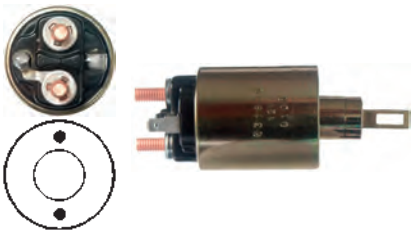


## 131788 Solenoid

**Replacing:** TOB199, TOB114, 77109, 76905, 76904

**Servicing:** M50, 26316A, 26316D, 26316E, 26316L, 26316M, 26328, 26329A, 26329B, 26329D, 26329K, 26329L, 26341A, 26341B, 26341D

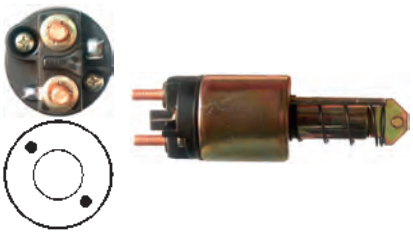
12 **V**, **B+** M8, **Kl. 15a** M6, **ID/cover** 26.10, **OD** 53.65, **OD/cover** 60.00, **Total length** 204.45, **Height/B+** 26.45, **Width/kl. 15a** 14.00, **Coil bolt** M6, **Coil bolt 2** 13.65, **No./terminals** 4
*Cap: HC-CARGO 133367.*



## 131800 Solenoid

**Replacing:** TOJ103

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 52.30, **OD/cover** 44.40, **Total length** 112.20, **Height/B+** 16.45, **Width/kl. 50** 17.00, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3
*Cap: HC-CARGO 133269. Moving contact: HC-CARGO 133270.*

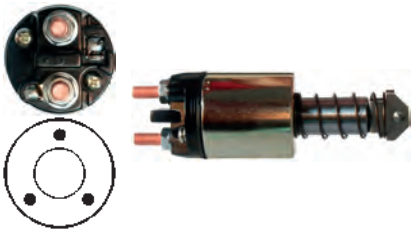


## 132227 Solenoid

**Replacing:** 085540591010

**Servicing:** 063220931010, 063221338010, 063221431010, 063221434010, 063221637010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.20, **OD/cover** 50.00, **Total length** 148.30, **Height/B+** 19.30, **Width/kl. 50** 14.70, **Coil bolt** M8, **Coil bolt 2** 19.85, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

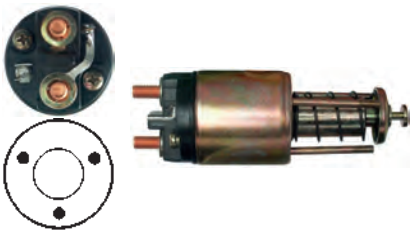


## 132228 Solenoid

**Replacing:** 085540561010, 085540001010

**Servicing:** 063221435010, 063221436010, 063221530010, 063221533010, 063221536010, 063221635010, 063223235010, 063223236010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 20.25, **OD/cover** 50.35, **Total length** 127.55, **Height/B+** 20.85, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 21.70, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

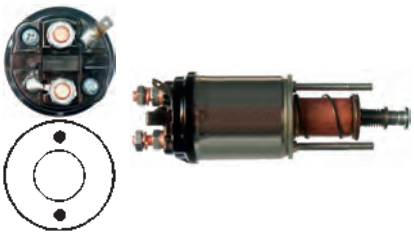


## 132249 Solenoid

**Replacing:** 085540371010

**Servicing:** 063221834010, 063221890010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.00, **OD** 52.30, **OD/cover** 49.55, **Total length** 133.50, **Height/B+** 14.00, **Width/kl. 50** 15.35, **Coil bolt** M8, **Coil bolt 2** 14.75, **No./terminals** 3
*Cap: HC-CARGO 231816. Moving contact: HC-CARGO 132251.*

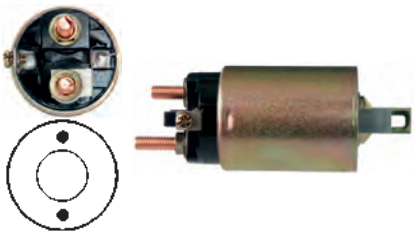


## 132269 Solenoid

**Replacing:** TPB107, TOB134, TOB121, TOB113, SSL0008, SSL0002, 77899, 77157, 77154, 77134, 77035, 76961, 76908

**Servicing:** M127, M45G, M418, 2M113, 063227470010, 063227475010, 063227477010, 063227480010, 063227482010, 063227485010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.20, **OD** 53.70, **OD/cover** 60.25, **Total length** 178.00, **Height/B+** 19.55, **Width/kl. 50** 14.80, **Coil bolt** M8, **Coil bolt 2** 19.55, **No./terminals** 3
*Cap: HC-CARGO 131015.*

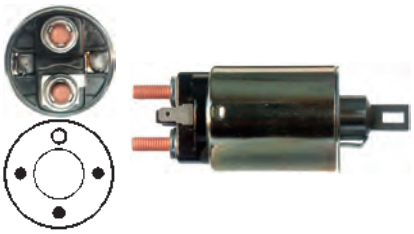


## 133050 Solenoid

**Replacing:** SSL6001, LTH206

**Servicing:** 61924100

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 48.60, **Total length** 144.00, **Height/B+** 27.65, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 19.40, **No./terminals** 3
*Cap: HC-CARGO 133286.*



## 133052 Solenoid

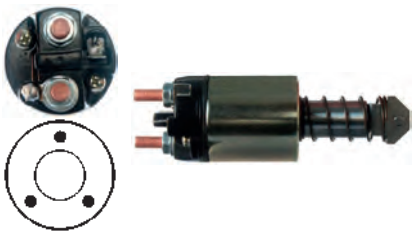
**Replacing:** TOJ214

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.45, **OD/cover** 45.40, **Total length** 132.45, **Height/B+** 18.55, **Width/kl. 50** 15.55, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Cap: HC-CARGO 133287.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

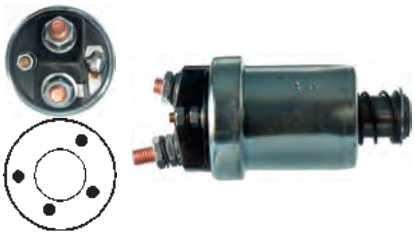


## 133083 Solenoid

**Replacing:** 085540581010

**Servicing:** 063221831010, 063222030010, 063222031010, 063222034010, 063222036010, 063222038010, 063222039010, 063222130010

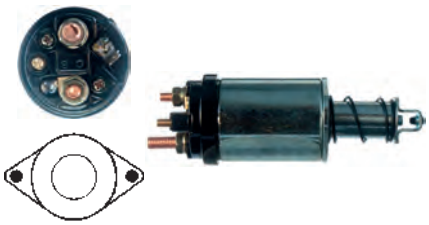
12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 50.25, **OD/cover** 50.30, **Total length** 127.00, **Height/B+** 21.25, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 22.70, **No./terminals** 3
*Cap: HC-CARGO 132229.*



## 133178 Solenoid

**Replacing:** 35640175

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 46.30, **OD/cover** 51.15, **Total length** 122.00, **Height/B+** 19.60, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3
*Cap: HC-CARGO 131323.*

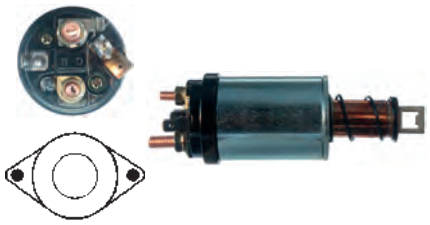


## 133187 Solenoid

**Replacing:** TPB147, TPB144, TOB194, TOB193, 77186, 77180, 77094, 77093, 77091, 77031, 66964039

**Servicing:** 8M90, 9M90, 25277, 25281, 25281B, 25326, 25326A, 25326E, 25331, 25331A, 25331D, 25332, 25332A, 25332E, 25333, 25333A

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 21.35, **OD** 46.90, **OD/cover** 51.35, **Total length** 156.00, **Height/B+** 21.00, **Width/kl. 15a** 8.25, **Width/kl. 50** 14.70, **Coil bolt** M6, **Coil bolt 2** 14.80, **No./terminals** 4
*Cap: HC-CARGO 131078.*

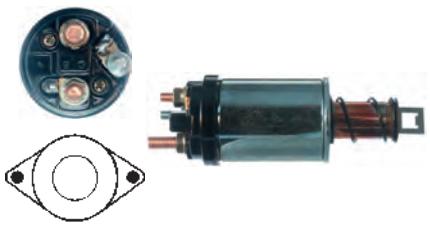


## 133300 Solenoid

**Replacing:** TPB139, 77219, 77199, 77175, 000077219010, 000077175010, 000072219010

**Servicing:** M79, 063226604010, 063226606010, 063226607010, 063226609010, 063226614010, 063226619010, 063226622010, 063226647010

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 9.40, **ID/cover** 21.30, **OD** 46.85, **OD/cover** 51.40, **Total length** 156.40, **Height/B+** 18.45, **Width/kl. 15a** 15.50, **Width/kl. 50** 13.20, **Coil bolt** M6, **Coil bolt 2** 14.35, **No./terminals** 4
*Cap: HC-CARGO 139085.*

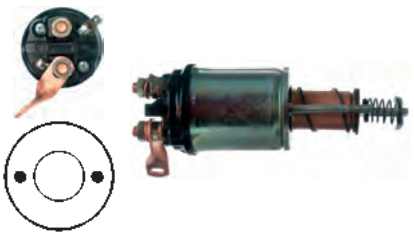


## 133301 Solenoid

**Replacing:** TPB143, TPB142, 77252, 77229, 77221, 77190, 77185, 000077252010, 000077229010, 000077221010

**Servicing:** M79, 063226601010, 063226626010, 063226627010, 063226648010, 063226667010, 063226678010, 063226679010, 063226680010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 21.25, **OD** 46.85, **OD/cover** 51.35, **Total length** 157.45, **Height/B+** 21.00, **Width/kl. 50** 12.55, **Coil bolt** M6, **Coil bolt 2** 14.50, **No./terminals** 3
*Cap: HC-CARGO 133200.*

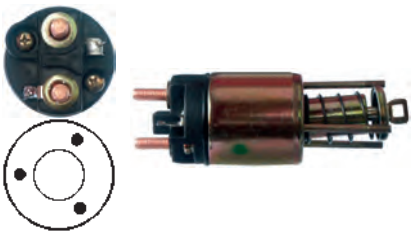


## 133531 Solenoid

**Replacing:** TPB119, TPB118, TPB116, TPB111, TPB104, SSL0005, 77143, 77141, 77139, 77133, 77132, 77131, 77121

**Servicing:** M127, 063227502010, 063227510010, 063227518010, 063227528010, 063227539010, 063227541010, 063227564010, 063227565010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.90, **OD** 53.85, **OD/cover** 60.00, **Total length** 181.00, **Height/B+** 13.00, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3
*Cap: HC-CARGO 131015.*

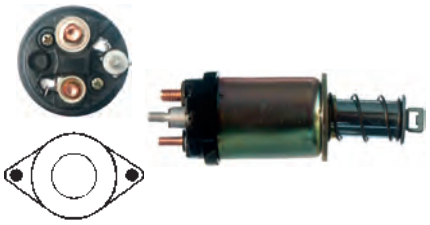


## 133566 Solenoid

**Replacing:** 085540471010

**Servicing:** 063222831010, 063222832010, 063222833010, 063222836010, 063222837010, 063223031010, 063223032010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.40, **OD/cover** 50.10, **Total length** 141.00, **Height/B+** 19.00, **Width/kl. 50** 21.55, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Cap: HC-CARGO 132229.*

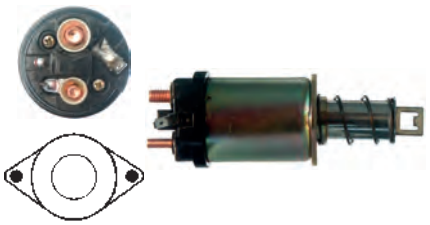


## 133590 Solenoid

**Replacing:** TPB152, 77231, 77230, 77209, 77193, 000077231010, 000077230010, 000077209010

**Servicing:** M78, M79, 063226820010, 063226823010, 063226824010, 063226826010, 063226836010, 063226837010, 063226838010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 21.25, **OD** 44.85, **OD/cover** 51.80, **Total length** 146.00, **Height/B+** 11.80, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 13.20, **No./terminals** 3
*Cap: HC-CARGO 133200.*



## 134455 Solenoid

**Replacing:** TPB136, 77198, 77165, 000077165010

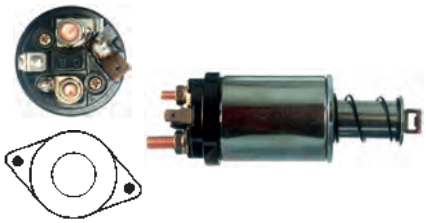
**Servicing:** M79, 063226655010, 063227012010, 26623, 26624, 26624A, 26624D, 26646, 26646B, 26646D, 26648, 26648A, 26648B, 26649

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 21.20, **OD** 44.75, **OD/cover** 51.70, **Total length** 148.70, **Height/B+** 12.35, **Width/kl. 50** 14.20, **Coil bolt** M6, **Coil bolt 2** 14.15, **No./terminals** 3
*Cap: HC-CARGO 139112.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

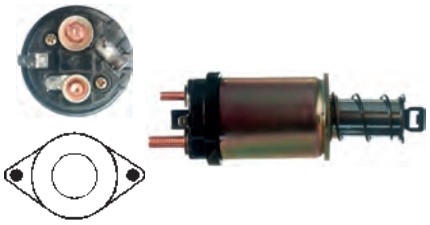


## 134456 Solenoid

**Replacing:** TPB145, TPB138, 77196, 77170, 000077196010

**Servicing:** M78, M80, 063226701010, 063226707010, 063226717010, 063226719010, 063226722010, 063226804010, 063226812010

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 9.40, **ID/cover** 21.25, **OD** 46.85, **OD/cover** 51.60, **Total length** 152.60, **Height/B+** 21.40, **Width/kl. 15a** 15.25, **Width/kl. 50** 13.45, **Coil bolt** M6, **Coil bolt 2** 14.75, **No./terminals** 4
*Cap: HC-CARGO 131079.*

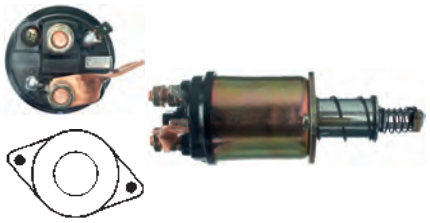


## 134457 Solenoid

**Replacing:** TPB146, TPB140, 77208, 77204, 77194, 77177, 77174, 000077204010, 000077177010, 000077174010

**Servicing:** M78, M80, 063226800010, 063226801010, 063226803010, 063226927010, 26715, 26715B, 26800D, 26800H, 26801B, 26801F, 26802

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **ID/cover** 21.35, **OD** 44.85, **OD/cover** 51.65, **Total length** 151.00, **Height/B+** 20.70, **Width/kl. 15a** 8.10, **Width/kl. 50** 14.45, **Coil bolt** M6, **Coil bolt 2** 14.25, **No./terminals** 4
*Cap: HC-CARGO 134430.*

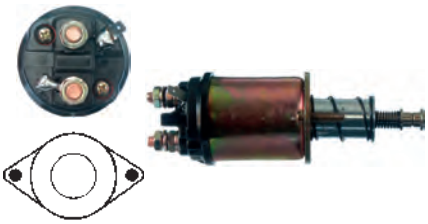


## 134483 Solenoid

**Replacing:** TPB122, TPB113, TPB112, 77152, 77135, 77129, 000077152010

**Servicing:** M127, 063227601010, 27533, 27551A, 27551B, 27552A, 27552B

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 26.15, **OD** 53.55, **OD/cover** 60.20, **Total length** 174.85, **Height/B+** 19.85, **Width/kl. 15a** 12.15, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 20.45, **No./terminals** 4
*Cap: HC-CARGO 135354.*

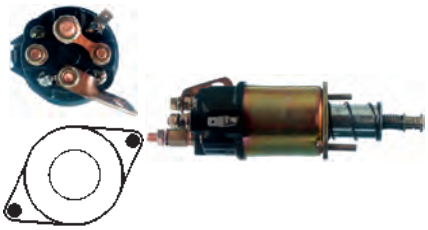


## 134695 Solenoid

**Replacing:** TPB106, TOB196, TOB172, TOB115, 77161, 77156, 77110, 76982, 76962, 76917

**Servicing:** M45G, M418G, 2M113, 25616, 25616A, 25616J, 25660, 25660A, 25660B, 26269, 26269H, 26269L, 26346, 26346A, 26346D, 26346E

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.45, **OD/cover** 60.00, **Total length** 179.65, **Height/B+** 20.15, **Width/kl. 50** 12.90, **Coil bolt** M8, **Coil bolt 2** 18.60, **No./terminals** 3
*Cap: HC-CARGO 131015.*

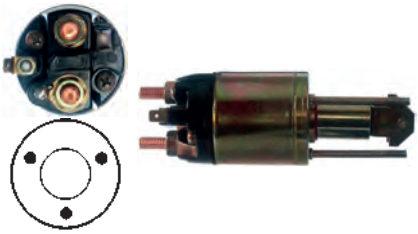


## 134696# Solenoid

**Replacing:** TOB175, 77089, 77004

**Servicing:** M50, 26398, 26398A, 26398F, 26398H, 26428A, 26428B

12 **V**, **B+** M8, **Kl. 15a** M6, **Kl. 50** 6.30, **ID/cover** 26.25, **OD** 55.00, **OD/cover** 60.00, **Total length** 200.00, **Height/B+** 36.45, **Width/kl. 15a** 16.15, **Width/kl. 50** 12.90, **Coil bolt** M6, **Coil bolt 2** 17.20, **No./terminals** 4
*Cap: HC-CARGO 138207.*

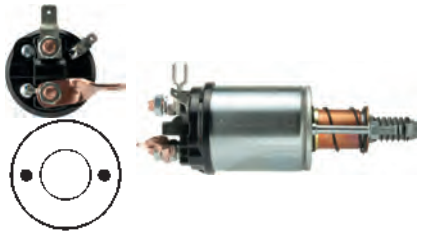


## 134862 Solenoid

**Replacing:** 085540461010

**Servicing:** 063221535010

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 23.00, **OD** 51.70, **OD/cover** 50.35, **Total length** 147.30, **Height/B+** 22.00, **Width/kl. 15a** 12.40, **Width/kl. 50** 10.15, **Coil bolt** M8, **Coil bolt 2** 21.15, **No./terminals** 4
*Cap: HC-CARGO 136055.*

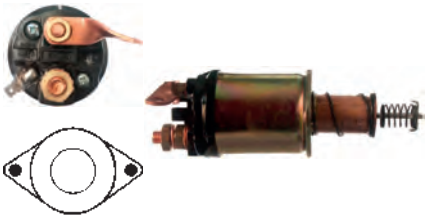


## 134886 Solenoid

**Replacing:** TPB115, TPB114, SSL0009, 77138, 77136, 000077136010

**Servicing:** M127/2.8 KW, 063227553010, 063227554010, 27506A, 27506D, 27507A, 27507B, 27511, 27511A, 27553A, 27553D, 27554A, 27554B

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.25, **OD** 53.55, **OD/cover** 60.00, **Total length** 182.50, **Height/B+** 26.30, **Width/kl. 50** 23.00, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 3
*Cap: HC-CARGO 131015.*

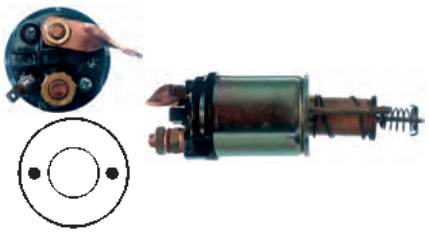


## 134888 Solenoid

**Replacing:** TPB124, SSL0006, 77122, 60933109, 085541323010, 000077122010

**Servicing:** M127/2.8 KW, 063227501010, 063227508010, 063227567010, 063227586010, 27531A, 27531B, 27531D, 27567A, 27575, 27604

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.60, **OD/cover** 59.70, **Total length** 181.45, **Height/B+** 24.55, **Width/kl. 50** 23.55, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 3
*Cap: HC-CARGO 132270.*



## 134890 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** TPB110, SSL0007, 77269, 77130, 000077269010

**Servicing:** M127/2.8 KW, 063227587010, 27512, 27512A, 27512D, 61924045, 61924049

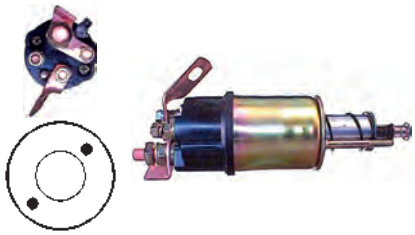
12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.60, **OD/cover** 59.70, **Total length** 180.50, **Height/B+** 24.00, **Width/kl. 50** 14.30, **Coil bolt** M8, **Coil bolt 2** 20.50, **No./terminals** 3
*Cap: HC-CARGO 132270.*

**Alternative no.:** 335154



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



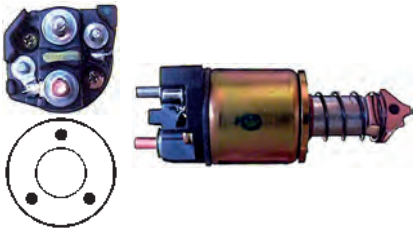
## 134891 Solenoid

**Replacing:** TOB180, 77027

**Servicing:** M50, 26342, 26342D, 26342K, 26342L

12 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** 6.30, **ID/cover** 26.35, **OD** 53.60, **OD/cover** 60.30, **Total length** 210.70, **Height/B+** 30.65, **Width/kl. 15a** 16.75, **Width/kl. 50** 12.15, **Coil bolt** M6, **Coil bolt 2** 16.75, **No./terminals** 4

*Cap: HC-CARGO 131276.*



## 136164 Solenoid

**Replacing:** 085540711010

**Servicing:** 063222035010

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 23.20, **OD** 51.50, **OD/cover** 54.25, **Total length** 131.90, **Height/B+** 14.55, **Width/kl. 30h** 8.20, **Width/kl. 50** 10.15, **Coil bolt** M8, **Coil bolt 2** 13.70, **No./terminals** 4

*Cap: HC-CARGO 231582. w/ 30H terminal.*

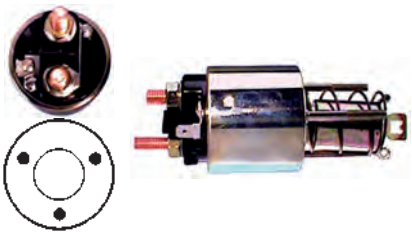
## 136889 Solenoid

**Replacing:** 77223, 77222, 000077222010

**Servicing:** M78R, 063226834010, 063226845010, 26813, 26814, 26841, 26848

12 **V**, **OD** 46.00, **Total length** 126.00, **No./terminals** 3

*Cap: HC-CARGO 136892.*



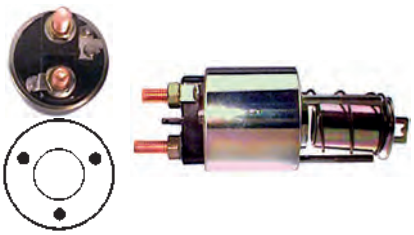
## 137190 Solenoid

**Replacing:** 085540981010

**Servicing:** 063222889010, 063222936010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.25, **OD** 53.90, **OD/cover** 46.80, **Total length** 126.55, **Height/B+** 23.70, **Width/kl. 50** 13.80, **Coil bolt** M8, **Coil bolt 2** 11.40, **No./terminals** 3

*Cap: HC-CARGO 137347.*



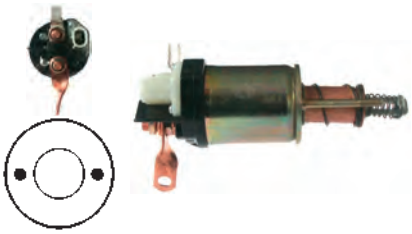
## 137191 Solenoid

**Replacing:** 085541820010

**Servicing:** 063222900010, 063223085010, 063223303010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 53.80, **OD/cover** 49.00, **Total length** 126.70, **Height/B+** 26.40, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3

*Cap: HC-CARGO 139602.*



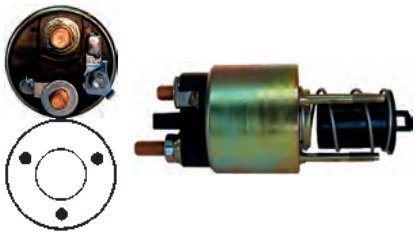
## 137759 Solenoid

**Replacing:** TPB157, SSL0012, SSL0010, 77287, 77271, 77259, 77207

**Servicing:** M127, 27510, 27569A, 27570A, 27570B, 27571A, 27571B, 27572A, 27572B, 27573, 27574, 27576, 27583, 27583A, 27602, 27603

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.75, **OD/cover** 59.85, **Total length** 184.70, **Height/B+** 18.90, **Coil bolt** M8, **Coil bolt 2** 24.10, **No./terminals** 3

*Cap: HC-CARGO 139159.*



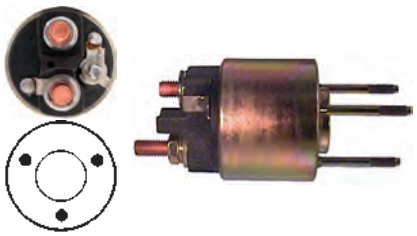
## 138444 Solenoid

**Replacing:** 085541670010, 085541420010, 063602106010

**Servicing:** 063111007010, 063113002010, 063113003010, 063113004010, 063223730010, 063293538010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.00, **OD** 53.90, **OD/cover** 46.90, **Total length** 118.85, **Height/B+** 16.40, **Width/kl. 50** 11.95, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 3

*Cap: HC-CARGO 139602. Moving contact: HC-CARGO 233969.*



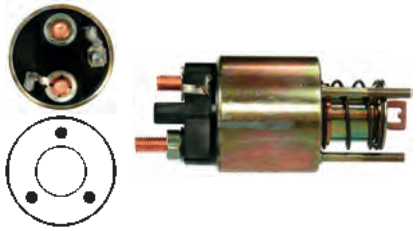
## 138477 Solenoid

**Replacing:** 063602502010

**Servicing:** 063114008010, 063114010010

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.50, **OD/cover** 47.50, **Height/B+** M8, **Width/kl. 50** 10.00, **No./terminals** 3

*Cap: HC-CARGO 139602. Moving contact: HC-CARGO 137348.*



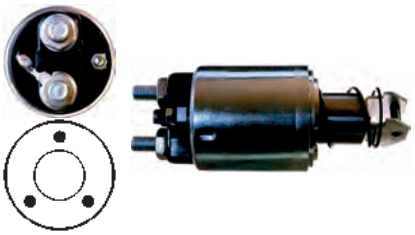
## 138531 Solenoid

**Replacing:** 085541070010

**Servicing:** 063223039010, 063293039010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.35, **OD** 54.00, **OD/cover** 47.40, **Total length** 124.55, **Height/B+** 20.90, **Width/kl. 50** 11.75, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 3

*Terminal: HC-CARGO 231863.*

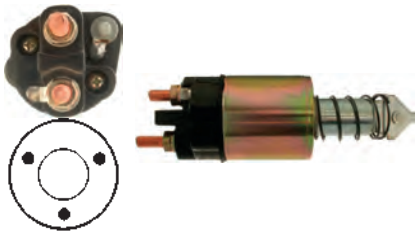


## 138753 Solenoid

**Replacing:** 085540031010

**Servicing:** 063216876010, 063216884010, 063217173010, 063217401010, 063217402010, 063217407010

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 60.90, **Total length** 160.00, **Height/B+** 15.30, **Width/kl. 50** 6.30, **No./terminals** 3
*Cap: HC-CARGO 139141.*

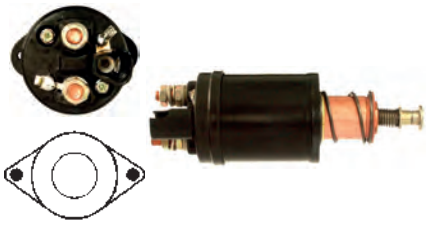


## 139104 Solenoid

**Replacing:** 085540922010

**Servicing:** 063222135010, 063222136010, 063222138010, 063222204010, 063222206010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.30, **OD** 51.60, **OD/cover** 50.65, **Total length** 144.00, **Height/B+** 25.25, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 20.35, **No./terminals** 3
*Cap: HC-CARGO 232417.*



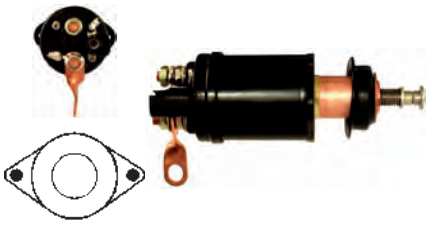
## 230264 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** 26964041

**Servicing:** 26925155B

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 28.20, **OD** 58.00, **OD/cover** 59.10, **Total length** 173.00, **Height/B+** 18.00, **Coil bolt** M8, **Coil bolt 2** 23.70, **No./terminals** 3



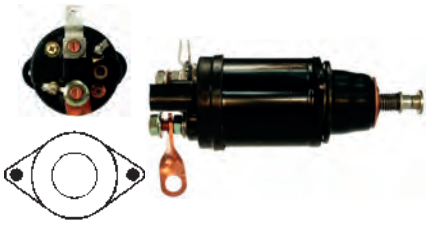
## 230266# 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** 26964059B, 26964059, 26964058A, 26964058

**Servicing:** 26925193A, 26925194D

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 28.80, **OD** 57.10, **OD/cover** 59.00, **Total length** 172.00, **Height/B+** 20.15, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3



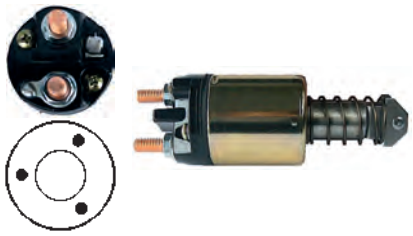
## 230268 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** 26964060A

**Servicing:** 26025007A, 26925196A, 26925196B

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 9.40, **ID/cover** 28.60, **OD** 57.10, **OD/cover** 58.65, **Total length** 170.75, **Height/B+** 20.75, **Width/kl. 15a** 11.70, **Width/kl. 50** 32.85, **Coil bolt** M8, **Coil bolt 2** 20.15, **No./terminals** 3

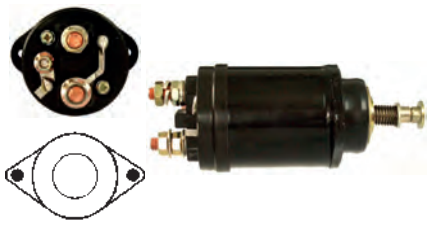


## 230325 Solenoid

**Replacing:** 085540041010

**Servicing:** 063220932010, 063221433010, 063221531010, 063221532010, 063221534010, 063221538010, 063221539010, 063221632010

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 50.00, **OD/cover** 50.00, **Total length** 126.70, **Height/B+** 21.30, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 20.55, **No./terminals** 3
*Cap: HC-CARGO 132229.*



## 230342 5★ Solenoid

**Manufacturer:** Lucas

**Replacing:** 26964038D

**Servicing:** 26925198D

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 26.00, **OD** 57.25, **OD/cover** 58.55, **Total length** 177.25, **Height/B+** 19.90, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 18.40, **No./terminals** 3

## 230805 Solenoid

**Replacing:** 085541210010, 083227502010

**Servicing:** 063102000010, 063191001010, 063192000010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.70, **OD** 54.00, **OD/cover** 47.40, **Total length** 112.75, **Height/B+** 12.50, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3
*Cap: HC-CARGO 139602.*

## 230807 5★ Solenoid

**Manufacturer:** Magneti Marelli

**Replacing:** 085541860010

**Servicing:** 063102008010, 063103002010, 063103003010, 063103007010, 063103008010, 063103022010, 063103023010, 063103025010

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.55, **OD** 54.00, **OD/cover** 47.50, **Total length** 123.00, **Height/B+** 23.35, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 9.50, **No./terminals** 3
*Cap: HC-CARGO 139602.*



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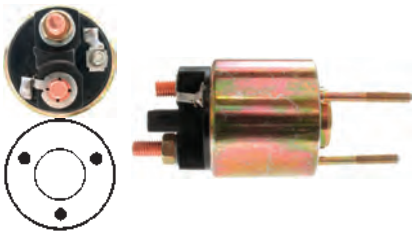
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

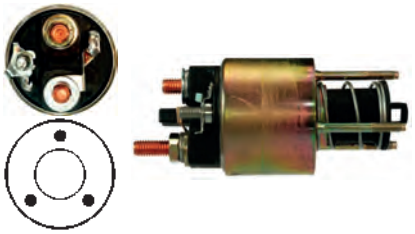


## 230808 Solenoid

**Replacing:** 085541740010

**Servicing:** 063103026010, 063111016010, 063111017010, 063111036010

12 **V**, **B+** M8, **Kl. 50** M6,
**ID/cover** 25.70, **OD** 54.00, **OD/cover** 47.55,
**Total length** 122.85, **Height/B+** 23.30,
**Width/kl. 50** 10.00, **Coil bolt** M8,
**Coil bolt 2** 9.75, **No./terminals** 3
*Cap: HC-CARGO 139602.*

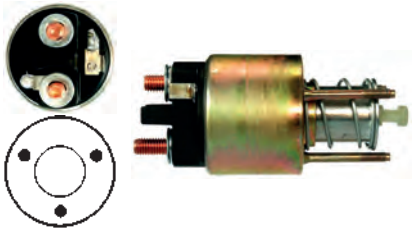


## 230809 Solenoid

**Replacing:** 085541560010

**Servicing:** 063111005010

12 **V**, **B+** M8, **Kl. 50** M6,
**ID/cover** 25.75, **OD** 54.00, **OD/cover** 47.40,
**Total length** 123.00, **Height/B+** 23.45,
**Width/kl. 50** 9.95, **Coil bolt** M8,
**Coil bolt 2** 9.55, **No./terminals** 3
*Cap: HC-CARGO 139601.*



## 231479 Solenoid

**Replacing:** 085541350010

**Servicing:** 063191007010

12 **V**, **B+** M8, **Kl. 50** 6.30,
**ID/cover** 25.65, **OD** 54.00, **OD/cover** 47.20,
**Total length** 115.00, **Height/B+** 14.85,
**Width/kl. 50** 15.00, **Coil bolt** M8,
**Coil bolt 2** 9.65, **No./terminals** 3
*Cap: HC-CARGO 233074.*

## 231806 Solenoid

**Replacing:** 085541111010, 085541110010

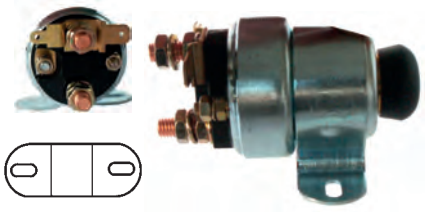
**Servicing:** 063223103010, 063223104010, 063230001010, 063230003010, 063293103010, 063293104010

12 **V**, **B+** M8, **Kl. 50** 9.40,
**ID/cover** 25.30, **OD** 54.00, **OD/cover** 47.00,
**Total length** 121.00, **Height/B+** 16.65,
**Width/kl. 50** 17.25, **Coil bolt** M8,
**Coil bolt 2** 10.65, **No./terminals** 3
*Cap: HC-CARGO 137346.*

## 233954 Solenoid

**Replacing:** SRB716, 76702

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 43.35,
**OD/cover** 44.45, **Total length** 94.95,
**Height/B+** 19.35, **Width/kl. 50** 13.70,
**Coil bolt** M8, **Coil bolt 2** 18.35,
**No./terminals** 3



## 233955 Solenoid

**Replacing:** SRB319, 76731

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5,
**OD** 43.40, **OD/cover** 44.35,
**Total length** 94.50, **Height/B+** 19.25,
**Width/kl. 15a** 11.65, **Width/kl. 50** 11.70,
**Coil bolt** M8, **Coil bolt 2** 18.30,
**No./terminals** 4
**Alternative no.:** 130951

## 234733 Solenoid

**Replacing:** 085541360010

**Servicing:** 063101015010, 063101018010, 063101023010, 063102018010, 063102021010, 063103028010, 063103031010, 063111033010

12 **V**, **B+** M8, **Kl. 50** M6,
**ID/cover** 25.00, **OD** 54.00, **OD/cover** 49.45,
**Total length** 125.30, **Height/B+** 22.90,
**Width/kl. 50** 9.30, **Coil bolt** M8,
**Coil bolt 2** 10.10, **No./terminals** 3
*Cap: HC-CARGO 139601.*

## 235267 Solenoid

**Replacing:** 77262, 000077262010

**Servicing:** M80R, 063226945010, 26943, 26946

12 **V**, **B+** M8, **OD** 45.50,
**Height/B+** 21.50, **No./terminals** 3

## 238667 Solenoid

**Replacing:** SSL0011, 77218

**Servicing:** 27408, 27474

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.80,
**Total length** 160.00, **Height/B+** 12.50,
**Coil bolt** M8, **Coil bolt 2** 17.50

## 238841 Solenoid

**Replacing:** 085541990010

**Servicing:** 063101021010, 063102022010

12 **V**, **B+** M8, **OD** 54.05, **Height/B+** 16.25,
**Total length** 129.00, **Coil bolt** M8,
**Coil bolt 2** 9.25, **No./terminals** 2



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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## 239075 Solenoid

**Replacing:** 085553402010

**Servicing:** 063280091010

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.25, **Total length** 106.20, **Height/B+** 18.30, **Width/kl. 50** 9.45, **Coil bolt** M8, **Coil bolt 2** 10.95, **No./terminals** 3

## 335154 Solenoid

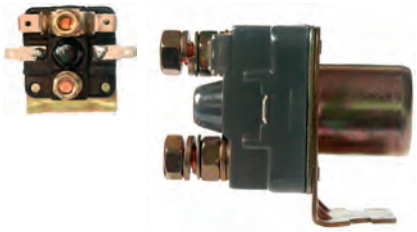
**Replacing:** TPB110, SSL0007, 77269, 77130, 000077269010

**Servicing:** 27512, 27587

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 53.60, **OD/cover** 61.00, **Total length** 113.50, **Height/B+** 29.00, **Coil bolt** M8, **Coil bolt 2** 20.50, **No./terminals** 3

**Alternative no.:** 134890 5★

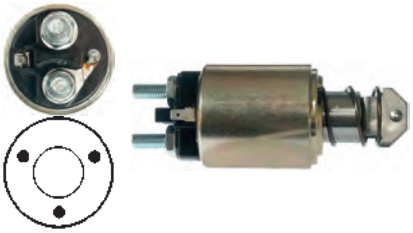
### 24 V



## 130952 Solenoid

24 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.60, **Total length** 76.85, **Height/B+** 19.10, **Width/kl. 50** 22.00, **No./terminals** 4
*Insulated return.*

**Alternative no.:** 233956

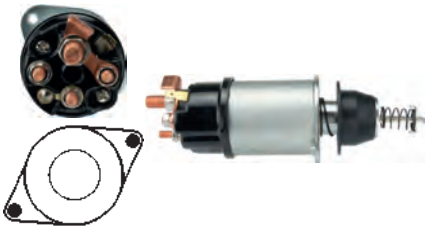


## 131115 Solenoid

**Replacing:** TOB811, 085540211010, 063633933010

**Servicing:** 063216727010, 063216731010, 063216733010, 063216740010, 063216741010, 063216748010, 063217225010, 063217226010

24 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.00, **OD** 60.80, **OD/cover** 54.70, **Total length** 157.80, **Height/B+** 20.35, **Width/kl. 50** 14.00, **Coil bolt** M10, **Coil bolt 2** 20.35, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*

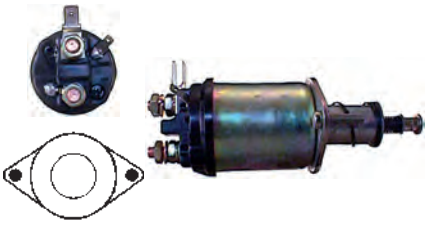


## 132404 Solenoid

**Replacing:** TOB127, TOB126, 77008, 76936

**Servicing:** M50, M127, 27301A, 27301H, 27301K, 27304A, 27304J, 27304L, 27305A, 27305H, 27305K, 27307A, 27307E, 27307H, 27310A

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** 6.30, **ID/cover** 25.85, **OD** 54.00, **OD/cover** 60.50, **Total length** 198.60, **Height/B+** 30.55, **Width/kl. 15a** 18.55, **Width/kl. 50** 13.00, **Coil bolt** M6, **Coil bolt 2** 12.65, **No./terminals** 3
*Cap: HC-CARGO 131276.*

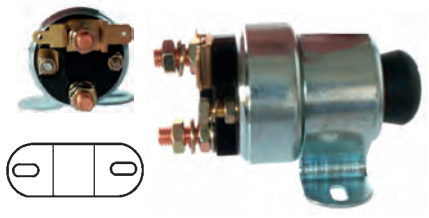


## 134899 Solenoid

**Replacing:** TPB127, SSL0023, 77108, 76989, 61611

**Servicing:** M45G, 3M113, 26387, 27429, 27429A, 27429B, 27461, 27461A, 27461B, 27462, 27462A, 27462B

24 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 9.40, **ID/cover** 26.30, **OD** 55.00, **OD/cover** 60.25, **Total length** 176.00, **Height/B+** 16.90, **Width/kl. 15a** 12.45, **Width/kl. 50** 33.15, **Coil bolt** M8, **Coil bolt 2** 18.50, **No./terminals** 3
*Cap: HC-CARGO 131015.*



## 233956 Solenoid

**Replacing:** SRB321, 76732

24 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 43.55, **Total length** 93.65, **Height/B+** 19.30, **Width/kl. 15a** 10.95, **Width/kl. 50** 10.90, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 4

**Alternative no.:** 130952

## Solenoid Parts

### Solenoid Caps

## 131015 Solenoid Cap

**Replacing:** TWB113, TWB112, SSL0901, 61194002, 60600678, 60600645, 60600381, 60600379, 60600129, 60600128

**Servicing:** 25602A, 25602B, 25603A, 25603F, 25604A, 25604D, 25615A, 25615E, 25620A, 25620D, 25626A, 25626D, 25633A, 25633E, 26148

**OD** 60.20, **No./terminals** 3
*HC-CARGO 131786, 132269, 133531, 134695, 134899.*

## 131078 Solenoid Cap

**Replacing:** TWB122, TWB117, 54646009

**Servicing:** 25206, 25250, 25255, 25276, 25277, 25281, 25281B, 25288, 25289, 25290, 25326, 25331, 25332, 25335, 25338, 25339, 25344

**OD** 51.75, **No./terminals** 4
*HC-CARGO 131255, 133187.*



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#Available while stock last, * Program development.

## 131079 Solenoid Cap

**Replacing:** TWB124

**Servicing:** 25349, 25375, 25387, 25411, 26602, 26607, 26614, 26618, 26619, 26622, 26660, 26690, 26692, 26693, 26694, 26696, 26702

**OD** 51.75, **No./terminals** 4

*HC-CARGO 134456.*

## 131264 Solenoid Cap

**Replacing:** TWB100, 54642436

**Servicing:** 26133, 26145, 26154, 26167, 26173, 26200, 26219, 26220, 26391, 27421, 76458, 76474, 76490, 76498, 76538, 76712, 76727

**OD** 58.15, **No./terminals** 4

*HC-CARGO 131252.*

## 131274 Solenoid Cap

**Replacing:** TWB114, SSL0903, 61194021, 60600759, 60600650, 60600125, 60600120, 54644304, 54644303, 54644302

**Servicing:** 25621A, 25621E, 25627A, 25627E, 25632A, 25632F, 25664A, 25664B, 25673A, 26256, 26259, 26278, 26281, 26286, 26321, 27413

**OD** 60.45, **No./terminals** 3

*HC-CARGO 130855.*

## 131275 Solenoid Cap

**Replacing:** TWB107, TWB105, 60600906, 54646683, 54646676, 54645021, 54644187, 54643312, 54643131, 54642903

**Servicing:** 26211, 26227, 26265, 26273, 26274, 26284, 26284E, 26291, 26294, 26295, 26311, 26312, 26316, 26323, 26329, 26338, 26339

**OD** 60.15, **No./terminals** 4

*HC-CARGO 131247, 131248.*

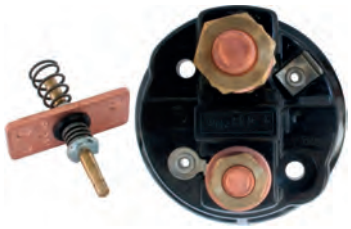
## 131276 Solenoid Cap

**Replacing:** TWB108, 54646689, 54646071, 54645590, 54644128

**Servicing:** 26336, 26342, 26355, 26356, 26386, 26388, 26407, 26428, 26428A

**OD** 60.30, **No./terminals** 4

*HC-CARGO 131121, 132404, 134891.*



## 132270 Solenoid Cap

**Replacing:** TWB111, SSL0900, 61194001, 60600568

**Servicing:** 27430, 27501, 27508, 27512, 27567, 27575, 27577, 27586, 27587, 27604, 61924011, 61924015, 61924017, 61924027, 61924033

**OD** 59.75, **No./terminals** 3

*HC-CARGO 131785, 134888, 134890.*

## 133200 Solenoid Cap

**Replacing:** TWB121, TWB119, 54648102, 54647433

**Servicing:** 25400, 26009, 26587, 26600, 26601, 26602, 26605, 26616, 26618, 26626, 26628, 26648, 26655, 26667, 26678, 26679, 26680

**OD** 51.85, **No./terminals** 3

*HC-CARGO 133590.*

## 134430 Solenoid Cap

**Replacing:** TWB123

**Servicing:** 26715, 26801, 26812, 26835, 26847, 77118, 77170, 77174, 77177, 77191, 77194, 77196, 77204, BLMC, TPB138, TPB140, TPB145

**OD** 51.75, **No./terminals** 4

*HC-CARGO 134457.*

## 135353# Solenoid Cap

**Servicing:** 77136, 77138, TPB114, TPB115

**OD** 60.70, **No./terminals** 3

*HC-CARGO 134886.*

## 135354 Solenoid Cap

**Servicing:** 77129, 77135, TPB112, TPB122

**OD** 60.70, **No./terminals** 4

*HC-CARGO 134483.*

## 136892 Solenoid Cap

**Replacing:** 54648379, 54648007

**Servicing:** 26667, 26813, 26814, 26834, 26841, 26845, 27022, 27043, 27047, 77222

**OD** 52.00, **No./terminals** 3

*HC-CARGO 136889.*

## 137057 Solenoid Cap

**Servicing:** 27048, 77252

**OD** 51.40, **No./terminals** 3

*HC-CARGO 133301.*

## 139085 Solenoid Cap

**Replacing:** TWB125

**Servicing:** 77175, 77197, 77201, TPB139, TPB150

**OD** 51.80, **No./terminals** 4,
**Bracket type** Crimp

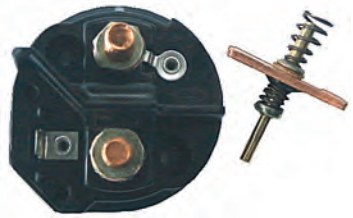
*HC-CARGO 133300.*

**139112** Solenoid Cap

**Servicing:** 77165, 77198, TPB136

**OD** 51.70, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 134455.*



**139159** Solenoid Cap

**Replacing:** TWT200, SSL0902, 61194003, 54648338

**Servicing:** 61924038, 77207, TPB157

**OD** 60.00, **No./terminals** 4

*HC-CARGO 137759.*

Pkg. 5

**139177** Connection

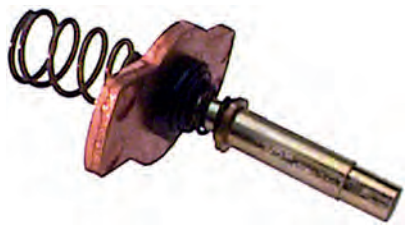
**Replacing:** 54645844, 54642959

**Servicing:** 26025007A, 26211, 26211A, 26211L, 26211M, 26211T, 26211U, 26227, 26227R, 26227V, 26246A, 26246L, 26246M, 26265, 26265J

**Length** 54.40, **Width** 16.15

## Moving Contacts

Pkg. 5

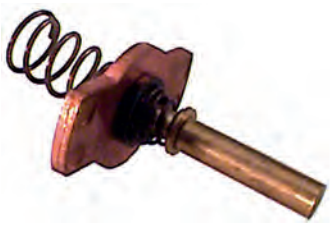


**137058** Moving Contact

**Servicing:** TOB130, TOB135, TOB140, TOB157, TOB171, TOB181, TOB184

**Length** 32.70, **Shaft measurement** 32.40, **Thickness** 2.45, **Width** 12.00/18.60

Pkg. 5



**137059** Moving Contact

**Replacing:** 54647861

**Servicing:** 26812, 26835, 26847, 77171, 77177, 77192, 77194, 77204, TPB132, TPB140, TPB146

**Length** 32.70, **Shaft measurement** 31.55, **Thickness** 3.00, **Width** 12.00/18.60

Pkg. 10

**231839** Moving Contact

**Servicing:** 77222

**Length** 32.00, **Shaft measurement** 30.00, **Thickness** 2.50, **Width** 12.20

Pkg. 30

**231840** Moving Contact

**Servicing:** 77221

**Length** 32.10, **Shaft measurement** 32.20, **Thickness** 2.40, **Width** 12.30

Pkg. 5

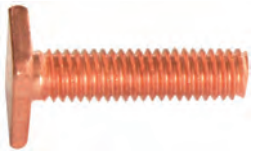
**235014** Moving Contact

**Length** 38.00, **Shaft measurement** 30.00, **Thickness** 2.55, **Width** 16.10

*Silver plated.*

## Fixed Contacts

Pkg. 5

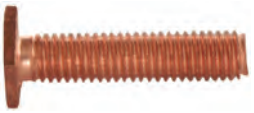


**234316** Fixed Contact

**Servicing:** TPB136, TPB138, TPB142, TPB143, TPB150

**Total length** 26.75, **Thread size** M6

Pkg. 5



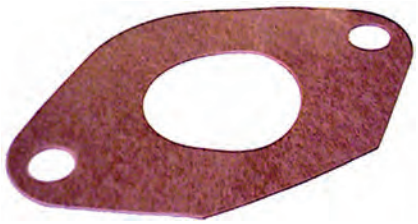
**234317** Fixed Contact

**Servicing:** TPB136, TPB138, TPB142, TPB143, TPB150

**Total length** 37.00, **Thread length** 32.80, **Thread size** M8

## Various

Pkg. 5



**136276** Gasket

**Servicing:** M50

**ID** 28.00, **ID/mount. hole** 8.15, **Length** 80.65, **Thickness** 0.30, **Width** 54.00

## Drives

**130406** Drive

**Replacing:** TMB420

**ID** 12.00, **OD** 26.00, **OD/housing** 46.15, **Total length** 68.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

## 130414ZZ Drive

**Replacing:** TMB471

**ID** 12.00, **OD** 25.20, **OD/housing** 54.15, **Total length** 70.95, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130414, 130414Z

## 130440 Drive

**Replacing:** TMJ106, TMJ100

**ID** 13.00, **OD** 29.70, **OD/housing** 46.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130441 Drive

**Replacing:** TMJ401

**ID** 12.50, **OD** 29.15, **OD/housing** 46.25, **Total length** 86.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 130443 Drive

**Replacing:** TLB118, 60600342, 292124

**Servicing:** 26145, 26147A, 26147H, 26147J, 26147M, 26148, 26148A, 26148F, 26148H, 26148N, 26149H, 26149M, 26151A, 26151F, 26151H

**ID** 14.30, **OD** 40.00, **OD/housing** 68.00, **Total length** 106.85, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 130444 Drive

**Replacing:** TLB117, 60600341, 292130

**Servicing:** 26133, 26173, 26206

**ID** 14.25, **OD** 39.75, **OD/housing** 68.25, **Total length** 106.50, **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 130445 Drive

**Replacing:** TMB115, 54247187, 54246896, 54246738, 54243783

**Servicing:** 26211, 26211U, 26213, 26227, 26227R, 26227V, 26265, 26265J, 26265M, 26291, 26291E, 26305D, 26305H, 26305J, 26305N

**ID** 17.00, **OD** 39.85, **OD/housing** 60.00, **Total length** 70.15, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 130446 Drive

**Replacing:** TMB105, 54259688, 54246725

**Servicing:** 26148, 26196, 26236A, 26236K, 26238A, 26238L, 26248A, 26248L, 26256, 26256A, 26256E, 26259, 26259A, 26259K, 26264

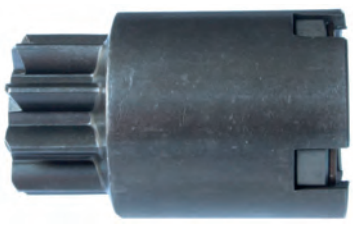
**ID** 17.00, **OD** 39.85, **OD/housing** 60.00, **Total length** 72.85, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 130447 Drive

**Replacing:** TMB116, 54247184, 54246739, 54246340

**Servicing:** 26317B, 26317D, 26317E, 26317H, 26355, 26355A, 26355B, 26355D, 26355J, 26356, 26356A, 26356B, 26356D, 26356E, 26356F

**ID** 17.00, **OD** 45.70, **OD/housing** 60.00, **Total length** 70.10, **Splines A** 12, **No./teeth** 13, **Rotation** CR



## 130449 Drive

**Replacing:** TLB112, 54252212

**Servicing:** 25016, 25022, 25024, 25041, 25061, 25062, 25063, 25065, 25071, 25075, 25079, 25079A, 25079J, 25083, 25083A, 25083H

**ID** 16.00, **OD** 29.10, **OD/housing** 36.90, **Total length** 58.00, **Splines A** 4, **No./teeth** 9, **Rotation** ACR

## 130450 Drive

**Replacing:** TMB104, 54259800, 54256984, 54246724

**Servicing:** 26208, 26208A, 26208E, 26211, 26211A, 26211L, 26227, 26291

**ID** 17.00, **OD** 39.90, **OD/housing** 60.00, **Total length** 70.00, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 130451 Drive

**Replacing:** TMB143, TMB101, 60600210, 54258190, 54247188, 54246661, 54243848, 54240795

**Servicing:** 26211, 26211M, 26211T, 26227, 26227A, 26227Q, 26291, 26291A, 26291D, 26305, 26305A, 26305B, 26312A, 26316, 26321, 26329

**ID** 17.00, **OD** 39.90, **OD/housing** 60.00, **Total length** 70.00, **Splines A** 3, **No./teeth** 10, **Rotation** CR



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## 130452 Drive

**Replacing:** TNB165, TNB108, TMB120, 60600024, 54294922, 54268141, 54247036, 54247034, 26253078, 085541490010

**Servicing:** 063227408010, 063227409010, 063227415010, 063227417010, 063227425010, 063227468010, 063227470010, 063227474010

**ID** 17.00, **OD** 39.90, **OD/housing** 60.00, **Total length** 73.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 130452Z

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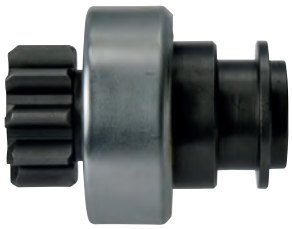
**Best Choice**



## 130452Z Drive

**Replacing:** 54294922, 54268141, 54247036, 54247034, 26253078, 085541490010, 085541479010, 085541454010

**ID** 17.00, **OD** 39.50, **OD/housing** 60.00, **Total length** 73.50, **Splines A** 12, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130452

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## 130453 Drive

**Replacing:** TMB142, TMB100, 60600066, 54246654, 54246285, 54244938, 26252342

**Servicing:** 26246M, 26273, 26273E, 26273F, 26273H, 26273M, 26274, 26274E, 26274F, 26274H, 26274N, 26290B, 26294, 26294D, 26294E

**ID** 17.00, **OD** 39.90, **OD/housing** 60.00, **Total length** 73.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

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## 130737 Drive

**Replacing:** 085540661010

**Servicing:** 063220732010, 063220735010, 063220740010, 063220741010, 063220743010, 063220744010, 063220746010, 063220932010

**ID** 11.70, **OD** 25.55, **OD/housing** 43.70, **Total length** 71.15, **Splines A** 6, **No./teeth** 9, **Rotation** CR

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## 130741 Drive

**Replacing:** TMJ204

**ID** 12.85, **OD** 29.15, **OD/housing** 45.40, **Total length** 60.15, **Splines A** 8, **No./teeth** 9, **Rotation** CR

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## 130745 Drive

**Replacing:** TLB110, 291559

**Servicing:** 26072, 26132, 26132A, 26132F, 26132H, 26132J, 26132R, 26135, 26136, 26143, 26143A, 26143H, 26143J, 26143Q, 26172

**ID** 14.30, **OD** 39.70, **OD/housing** 58.10, **Total length** 111.85, **Splines A** 6, **No./teeth** 11, **Rotation** CR

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## 130749 Drive

**Replacing:** 072138801010

**Servicing:** 063216733010, 063216816010, 063216833010, 063216846010, 063217117010, 063217173010, 063217182010, 063217402010

**ID** 14.35, **OD** 34.40, **OD/housing** 60.30, **Total length** 77.20, **Splines A** 6, **No./teeth** 9, **Rotation** CR

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## 130759 Drive

**Replacing:** 223224

**ID** 12.00, **OD** 25.25, **OD/housing** 46.30, **Total length** 59.45, **Splines A** 12, **No./teeth** 9, **Rotation** CR

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## 130897 Drive

**Replacing:** TMB102, 60600050, 54246662, 54243781

**Servicing:** M50, 26234K, 26336, 26336A, 26336F, 26336H, 26336Q, 26336R, 26337A, 26337B, 26337D, 26337H, 26349, 26349A, 26349B

**ID** 17.00, **OD** 39.85, **OD/housing** 60.00, **Total length** 100.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

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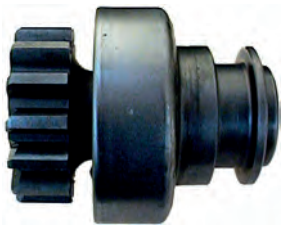

## 130959# Drive

**Replacing:** TMB134, 54261078

**Servicing:** M50, 26386, 26386A, 26386K, 26386L

**ID** 16.75, **OD** 49.40, **OD/housing** 60.25, **Total length** 73.50, **Splines A** 12, **No./teeth** 14, **Rotation** CR

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## 131035 Drive

**Replacing:** TNB137, 54247181, 54247077, 54246005, 54245341, 54245201, 54244686

**Servicing:** M35J, 25137A, 25137E, 25137F, 25137N, 25165A, 25165D, 25165E, 25165Q, 25166A, 25166B, 25166D, 25166F, 25167A, 25167E

**ID** 12.00, **OD** 28.90, **OD/housing** 48.30, **Total length** 68.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

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O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 131083[#] Drive

**Replacing:** 54262393

**ID** 12.10, **OD** 25.55, **OD/housing** 46.20, **Total length** 80.65, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 131085 Drive

**Replacing:** TMJ107, TMJ103

**ID** 12.50, **OD** 29.70, **OD/housing** 47.00, **Total length** 62.00, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 131086 Drive

**Replacing:** TMJ102

**ID** 12.50, **OD** 28.00, **OD/housing** 46.20, **Total length** 62.00, **Splines A** 5, **No./teeth** 8, **Rotation** CR

## 131087 Drive

**Replacing:** TMJ210

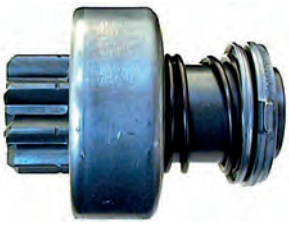
**ID** 12.75, **OD** 28.10, **OD/housing** 45.00, **Total length** 61.55, **Splines A** 8, **No./teeth** 8, **Rotation** CR

## 131104ZZ Drive

**Replacing:** TMB570, TMB455

**ID** 12.00, **OD** 25.30, **OD/housing** 46.20, **Total length** 58.40, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333176 5★, 131104



## 131109 Drive

**Replacing:** 072139001010

**Servicing:** 063216727010, 063216740010, 063216827010, 063216898010, 063217118010, 063217119010, 063217120010, 063217125010

**ID** 14.30, **OD** 34.55, **OD/housing** 59.70, **Total length** 77.20, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*Drive w/ lever: HC-CARGO 234921, 234922.*

## 131110 Drive

**Replacing:** TMJ400

**ID** 12.55, **OD** 29.10, **OD/housing** 46.25, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131206 Drive

**Replacing:** TNB144, 54249042, 54249034, 54247106, 54246253

**Servicing:** 2M100, 3M100, 25638A, 25638E, 25639A, 25639E, 25648, 25648A, 25648K, 25683A, 25683D, 25685A, 25685E, 25687A, 25687L

**ID** 12.00, **OD** 25.35, **OD/housing** 47.10, **Total length** 75.65, **Splines A** 12, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 131588 Drive

**Replacing:** 085540081010

**Servicing:** 063221830010, 063221832010

**ID** 11.68, **OD** 25.60, **OD/housing** 43.70, **Total length** 63.95, **Splines A** 6, **No./teeth** 9, **Rotation** CR

*Drive: HC-CARGO 132119.*

## 131705 Drive

**Replacing:** TNB145, 54249035, 54247179

**Servicing:** 2M100, 25653, 25653A, 25653E, 25654, 25654A, 25654H, 25667, 25667A, 25667D, 25705, 25705A, 25705D, 25721, 25721A

**ID** 12.00, **OD** 32.10, **OD/housing** 47.10, **Total length** 75.50, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 131707 Drive

**Replacing:** TNB149, TNB147, TNB142, 54279043, 54262658, 54249043, 54249041, 54249032, 54246252

**Servicing:** 2M100, 3M100, 25629A, 25629E, 25634A, 25634E, 25642, 25642A, 25642F, 25647, 25647A, 25647L, 25650A, 25650E, 25651

**ID** 12.08, **OD** 29.00, **OD/housing** 46.30, **Total length** 75.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR



All measurements are in mm, unless else stated.
[#]Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 131708 Drive

**Replacing:** TMB124, 60600077, 54247396, 054247396010

**Servicing:** M45G, 2M113, 063227413010, 063227421010, 26278, 26278H, 26301, 26301H, 27413A, 27413D, 27421A, 27421B, 27463, 27463A

**ID** 17.00, **OD** 39.23, **OD/housing** 60.20, **Total length** 73.20, **Splines A** 12, **No./teeth** 11, **Rotation** CR

## 131709 Drive

**Replacing:** TMB111, 60600211, 54246733, 54245900, 54240593

**Servicing:** M50, 26246A, 26246L, 26273A, 26273B, 26273D, 26274A, 26274B, 26274D, 26294A, 26294B, 26295, 26295A, 26295B, 26304A

**ID** 17.00, **OD** 38.95, **OD/housing** 60.00, **Total length** 73.35, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 131715 Drive

**Replacing:** 085540601010

**Servicing:** 063220536010, 063220537010, 063220538010

**ID** 11.64, **OD** 25.60, **OD/housing** 43.80, **Total length** 68.56, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 131716 Drive

**Replacing:** 085540611010, 085540491010

**Servicing:** 063220931010, 063221338010, 063221430010, 063221431010, 063221538010, 063221637010

**ID** 11.55, **OD** 29.30, **OD/housing** 46.40, **Total length** 71.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 131723 Drive

**Replacing:** TNB133, 54240984

**Servicing:** M418G, 25604, 25604A, 25604D, 25616, 25616A, 25616J, 25660, 25660A, 25660B

**ID** 12.00, **OD** 32.00, **OD/housing** 47.60, **Total length** 75.35, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 131728 Drive

**Replacing:** TNB169, TMB121, 60600038, 54268142, 54247389, 085541541010, 085541496010

**Servicing:** M45G, 063227419010, 063227533010, 063227601010, 26233K, 26233L, 26233M, 26286, 26286F, 26286H, 26286J, 26320D, 26320J

**ID** 17.05, **OD** 39.85, **OD/housing** 59.95, **Total length** 100.20, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 131729 Drive

**Replacing:** TMB125, 60600078, 54247397, 085541538010

**Servicing:** M45G, 063227416010, 063227491010, 26275F, 26275J, 26275K, 26280F, 26280H, 26280J, 26306E, 26306F, 26306H, 27412, 27412A

**ID** 17.05, **OD** 45.95, **OD/housing** 59.95, **Total length** 73.35, **Splines A** 12, **No./teeth** 13, **Rotation** CR

## 131732 Drive

**Replacing:** TMB108, 54246729, 54242044

**Servicing:** M45G, 26278, 26278A, 26278F, 26301A, 26301E

**ID** 17.00, **OD** 39.25, **OD/housing** 60.15, **Total length** 73.00, **Splines A** 3, **No./teeth** 11, **Rotation** CR

## 131733 Drive

**Replacing:** TMB129, 54248156

**Servicing:** M45G, 26371, 26371A, 26371D, 26371E, 26371F, 26400, 26400A, 26400B, 26400D, 27431, 27431A, 27431B, 27438A, 27451B

**ID** 17.00, **OD** 36.80, **OD/housing** 60.20, **Total length** 73.36, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 131734 Drive

**Replacing:** TMB132, 54248959

**Servicing:** M45G, 26346E, 26346K, 26381, 26381E, 26381F, 27428A, 27428D, 27428F

**ID** 12.10, **OD** 25.50, **OD/housing** 60.90, **Total length** 82.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 131737 Drive

**Replacing:** TNB102, 54245266

**Servicing:** 3M127, 27301A, 27301H, 27304A, 27304J, 27309A, 27309E, 27310A, 27310F, 27311A, 27311E, 27313A, 27313B, 27315A, 27315B

**ID** 17.10, **OD** 39.90, **OD/housing** 60.25, **Total length** 100.90, **Splines A** 12, **No./teeth** 10, **Rotation** CR



O.E.M. names and numbers are used for reference purposes only.

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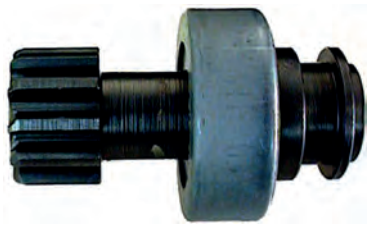
#Available while stock last, * Program development.



## 131738 Drive

**Replacing:** TNB104, 54246796

**Servicing:** 3M127, 27305A, 27305H

**ID** 17.00, **OD** 40.64, **OD/housing** 68.34, **Total length** 100.95, **Splines A** 12, **No./teeth** 11, **Rotation** CR

## 131783 Drive

**Replacing:** TMJ101

**ID** 12.55, **OD** 28.70, **OD/housing** 46.30, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131985 Drive

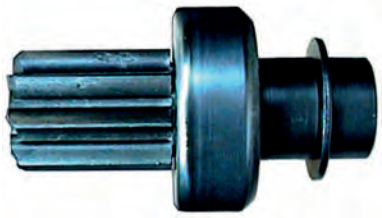
**Replacing:** TMJ123, TMJ117, TMJ115

**ID** 14.00, **OD** 36.00, **OD/housing** 60.00, **Total length** 70.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 131986 Drive

**Replacing:** TMJ121

**ID** 12.40, **OD** 28.00, **OD/housing** 46.25, **Total length** 60.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR



## 131988 Drive

**Replacing:** TMJ140

**ID** 12.50, **OD** 27.85, **OD/housing** 46.00, **Total length** 82.00, **Splines A** 10, **No./teeth** 8, **Rotation** ACR

## 132001 Drive

**Replacing:** TMJ171

**ID** 11.90, **OD** 29.19, **Total length** 87.00, **No./teeth** 9, **Rotation** CR

## 132187 Drive

**Replacing:** 085540481010

**Servicing:** 063223236010, 063223237010, 063223330010, 063223332010

**ID** 12.00, **OD** 25.00, **OD/housing** 46.25, **Total length** 65.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132188 Drive

**Replacing:** 085540521010

**Servicing:** 063221433010, 063221434010, 063221530010, 063221533010, 063221539010, 063221632010, 063221636010, 063221639010

**ID** 11.60, **OD** 29.15, **OD/housing** 46.00, **Total length** 65.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 132285 Drive

**Replacing:** TMB170, TMB148, 54290585, 54268139, 54247393, 085541466010, 085541462010, 054290585010

**Servicing:** M127/2.8 KW, 063227528010, 063227553010, 063227554010, 063227569010, 26213, 26311, 26316, 26329, 26330, 26338, 26339

**ID** 17.15, **OD** 39.00, **OD/housing** 60.00, **Total length** 70.40, **Splines A** 12, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 132286 Drive

**Replacing:** TMB150, 54267317, 26255652, 054267317010

**Servicing:** 2M113, 063227460010, 27425, 27425B, 27460A, 27460B

**ID** 14.30, **OD** 36.00, **OD/housing** 60.00, **Total length** 73.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 132288 Drive

**Replacing:** TMB162, 54291147

**Servicing:** 9M90, 25375, 25375A, 25375B, 25377, 25377A, 25377B, 25387, 25387A, 25387B, 25411, 25411A

**ID** 12.00, **OD** 34.00, **OD/housing** 48.35, **Total length** 81.00, **Splines A** 12, **No./teeth** 11, **Rotation** ACR
*w/ lever.*

## 132291 Drive

**Replacing:** TNB151, 54263923, 54262100, 54247959

**Servicing:** 3M100, 25681, 25696, 25696A, 25696L, 25697, 25697A, 25697L, 25724A, 25724E

**ID** 12.00, **OD** 25.50, **OD/housing** 47.70, **Total length** 75.75, **Splines A** 12, **No./teeth** 9, **Rotation** CR



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 132311 Drive

**Replacing:** TMJ105

**ID** 12.55, **OD** 29.50, **OD/housing** 46.00, **Total length** 76.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132453 Drive

**Replacing:** TMJ120

**ID** 14.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 69.50, **Splines A** 12, **No./teeth** 11, **Rotation** CR

## 132586 Drive

**Replacing:** TMB167, 54291911, 085541544010, 085541488010, 054291911010

**Servicing:** M78, 063226601010, 063226609010, 063226626010, 063226627010, 063226678010, 063226679010, 063226680010, 063226681010

**ID** 12.00, **OD** 26.70, **OD/housing** 46.25, **Total length** 48.20, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 132587 Drive

**Replacing:** TMB168, 54291912, 054291912010

**Servicing:** M78, 063226614010, 063226619010, 063226622010, 063227026010, 063227028010, 26602, 26602D, 26602H, 26614B, 26614D, 26618

**ID** 12.00, **OD** 25.50, **OD/housing** 43.50, **Total length** 48.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

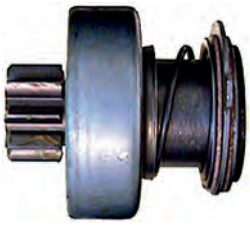
## 132782 Drive

**Replacing:** TNB159, 54267478, 54267004

**Servicing:** 9M90, 25339, 25339A, 25339J, 25339K, 25355, 25355A, 25355D, 25355F

**ID** 12.00, **OD** 29.55, **OD/housing** 47.00, **Total length** 59.40, **Splines A** 12, **No./teeth** 11, **Rotation** CR

**Best Choice**



## 132818 Drive

**Replacing:** 085540451010, 085540431010

**Servicing:** 063222030010, 063222034010, 063222038010, 063222130010, 063222134010, 063222135010, 063222138010

**ID** 11.60, **OD** 25.80, **OD/housing** 53.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

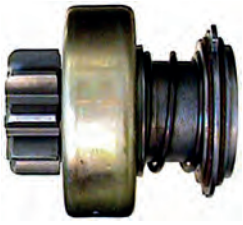
**Alternative no.:** 132818Z

## 132818Z Drive

**Replacing:** 085540451010, 085540431010

**ID** 12.00, **OD** 25.40, **OD/housing** 54.30, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132818

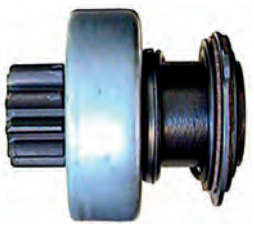


## 132819 Drive

**Replacing:** 085540141010

**Servicing:** 063222031010, 063222039010, 063222136010

**ID** 12.00, **OD** 34.75, **OD/housing** 53.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 132820 Drive

**Replacing:** 085540441010

**Servicing:** 063221831010, 063222036010, 063222131010, 063222133010, 063222206010

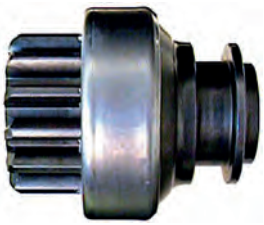
**ID** 12.00, **OD** 27.50, **OD/housing** 53.25, **Total length** 61.90, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 132821 Drive

**Replacing:** 085540191010, 085540151010

**Servicing:** 063216731010, 063216741010, 063216818010, 063216831010, 063216852010, 063216896010, 063217126010, 063217148010

**ID** 14.30, **OD** 34.30, **OD/housing** 60.00, **Total length** 77.50, **Splines A** 6, **No./teeth** 9, **Rotation** CR



## 132852 Drive

**Replacing:** TNB167, 54268140, 085541459010, 054268140010

**Servicing:** 3M127, 063227501010, 063227567010, 27501A, 27501B, 27501E, 27531A, 27531B, 27531D, 27577

**ID** 17.00, **OD** 45.75, **OD/housing** 60.00, **Total length** 71.00, **Splines A** 12, **No./teeth** 13, **Rotation** CR

## 132965 Drive

**Replacing:** TMB107, 54258309, 54246728

**Servicing:** M45G, 26125F, 26215A, 26215F

**ID** 17.00, **OD** 39.25, **OD/housing** 60.00, **Total length** 70.75, **Splines A** 3, **No./teeth** 11, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 133295 Drive

**Replacing:** TNB176, 54295252, 54292179, 054295252010

**Servicing:** M79, 063226607010, 063226692010, 063226696010, 063227037010, 063227044010, 063227045010, 26607E, 26607J

**ID** 12.00, **OD** 26.70, **OD/housing** 46.00, **Total length** 61.75, **Splines A** 9, **No./teeth** 10, **Rotation** ACR

## 133296 Drive

**Replacing:** TMB177, TMB174, 54295255, 54292929, 54291543

**Servicing:** M79, 26702, 26702E, 26702K, 26717, 26717A, 26722, 26811A, 26812, 26812A, 26812D, 26835, 26847

**ID** 12.00, **OD** 26.65, **OD/housing** 46.00, **Total length** 56.55, **Splines A** 9, **No./teeth** 10, **Rotation** ACR

## 133297 Drive

**Replacing:** TMB171, 54290840, 054290840010

**Servicing:** M78, 063226707010, 063226721010, 063226804010, 063226823010, 063226824010, 063226836010, 063226837010, 063226842010

**ID** 12.00, **OD** 26.65, **OD/housing** 46.00, **Total length** 44.00, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 133298 Drive

**Replacing:** TMB179, 54292698, 054292698010

**Servicing:** M79, 063227011010, 063227012010, 26648, 26648A, 26648B, 26655, 26655A, 26657A, 26657E, 26686

**ID** 12.00, **OD** 29.50, **OD/housing** 45.00, **Total length** 60.80, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 133591 Drive

**Replacing:** TMB182, 54291735, 085541389010, 054291735010

**Servicing:** M79, 063226921010, 063226935010, 063226936010, 063226939010, 063226942010, 063226949010, 26913, 26913A, 26929, 26929A

**ID** 12.00, **OD** 26.75, **OD/housing** 46.00, **Total length** 50.60, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 133682 Drive

**Replacing:** TNB172, 54295140, 54268656, 54268565, 054295140010, 054268565010

**Servicing:** M127, 063227512010, 063227587010, 26342, 27512A, 27512D

**ID** 17.00, **OD** 40.50, **OD/housing** 60.00, **Total length** 100.25, **Splines A** 12, **No./teeth** 11, **Rotation** CR

## 133683 Drive

**Replacing:** TNB173, 54290474, 085541470010

**Servicing:** M127, 063227564010, 27564A, 27564F, 27576, 27595

**ID** 14.20, **OD** 31.90, **OD/housing** 60.00, **Total length** 100.35, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 133985 Drive

**Replacing:** 072139003010

**Servicing:** 063217121010

**ID** 14.30, **OD** 34.00, **OD/housing** 60.25, **Total length** 77.25, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*w/ lever.*

## 134065 Drive

**Replacing:** TNB153, 54265568, 54265549, 54247295, 54246123, 54245568

**Servicing:** M35J, 25204, 25205, 25206, 25208, 25210, 25249, 25250, 25255, 25270, 25271, 25272, 25276, 25288, 25289, 25368, 25400

**ID** 12.00, **OD** 26.80, **OD/housing** 47.00, **Total length** 68.35, **Splines A** 12, **No./teeth** 10, **Rotation** CR

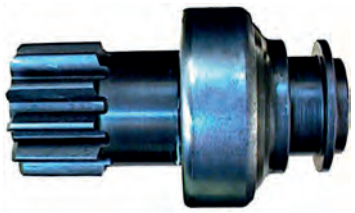
*Drive w/ lever: HC-CARGO 130747.*

## 134364 Drive

**Replacing:** 085541040010, 085540321010

**Servicing:** 063223430010, 063223431010, 063223432010, 063223436010, 063223530010, 063223531010, 063223532010, 063223533010

**ID** 12.00, **OD** 29.00, **OD/housing** 46.25, **Total length** 52.35, **Splines A** 10, **No./teeth** 11, **Rotation** CR



## 134427 Drive

**Replacing:** TMB118, 60600051, 54246741

**Servicing:** M50, 26284, 26284A, 26284E, 26342, 26342A, 26342B, 26342D, 26342K, 26342L

**ID** 17.00, **OD** 40.50, **OD/housing** 60.00, **Total length** 100.50, **Splines A** 12, **No./teeth** 11, **Rotation** CR

## 135100 Drive

**Replacing:** TMB189, 54295254, 54292576, 54242576

**Servicing:** M79, 26633, 26659, 26660, 26662, 26663, 26690, 26693, 26694, 27034

**ID** 12.00, **OD** 25.55, **OD/housing** 43.50, **Total length** 72.00, **Splines A** 9, **No./teeth** 9, **Rotation** ACR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 135117 Drive

**Replacing:** 085540681010

**Servicing:** 063222035010, 063222204010

**ID** 12.00, **OD** 29.00, **OD/housing** 54.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 135180 Drive

**Replacing:** TMB180, 54292742

**Servicing:** M79, 26649, 26649A, 26649B, 26656, 26656A, 26656E, 26657, 27048

**ID** 12.00, **OD** 26.60, **OD/housing** 43.50, **Total length** 61.00, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 135355 Drive

**Replacing:** 54242330, 54240295, 54240294

**Servicing:** M35G, 25079A, 25079J, 25083H, 25085A, 25085B, 25088A, 25088J, 25105A, 25105B, 25116A, 25116D, 25118A, 25118J, 25138A

**ID** 16.00, **OD** 29.50, **Total length** 58.10, **Splines A** 4, **No./teeth** 10

## 135711 Drive

**Replacing:** TMB196, 54292464, 085541503010

**Servicing:** M79, 063226667010, 063227043010, 27022, 27047

**ID** 12.00, **OD** 28.00, **OD/housing** 46.25, **Total length** 48.15, **Splines A** 9, **No./teeth** 8, **Rotation** CR

## 135717 Drive

**Replacing:** 085541780010, 085540971010

**Servicing:** 063101000010, 063101002010, 063101008010, 063102003010, 063102004010, 063102007010, 063102008010, 063103002010

**ID** 11.60, **OD** 25.80, **OD/housing** 46.00, **Total length** 64.00, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 135721 Clutch

**Replacing:** 000028502010

**Servicing:** 054022187010, 054022281010, 054022584010, 063324334010

**OD/housing** 57.00, **Total length** 114.40, **Splines A** 8, **No./teeth** 20, **Rotation** ACR

## 136261 Drive

**Replacing:** TMB197, 54293451, 054293451010

**Servicing:** M78R, 063226834010, 063226845010, 26813, 26841

**ID** 12.00, **OD** 27.85, **OD/housing** 46.25, **Total length** 65.45, **Splines A** 9, **No./teeth** 8, **Rotation** CR

## 136338 Drive

**Replacing:** TMB130, 54248606

**Servicing:** M45G, 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 27430, 27430A, 27430B

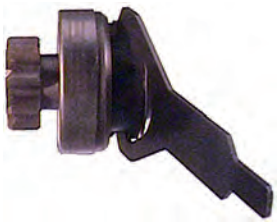
**ID** 14.30, **OD** 35.00, **OD/housing** 60.00, **Total length** 73.20, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 136770 Drive

**Replacing:** TMB173, 54291022, 085541381010

**Servicing:** M78R, 063226801010, 26801B, 26801F

**ID** 12.00, **OD** 25.75, **OD/housing** 47.65, **Total length** 56.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

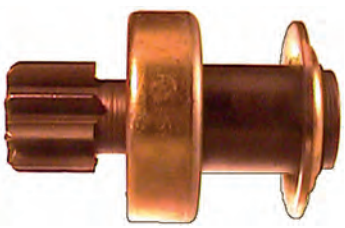


## 136962 Drive

**Replacing:** TNB194, TMB194, 54293287

**Servicing:** M78, 26715, 26715B

**ID** 12.00, **OD** 28.00, **OD/housing** 45.00, **Total length** 43.85, **Splines A** 9, **No./teeth** 8, **Rotation** CR



## 137326 Drive

**Replacing:** TNB134, 60600329, 54242521

**Servicing:** M45G, 26266, 26266A, 26266F, 26267, 26267A, 26267F

**ID** 12.00, **OD** 25.65, **OD/housing** 47.60, **Total length** 75.35, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 138167 Drive

**Replacing:** 085541030010

**Servicing:** 063111000010, 063223435010, 063223639010

**ID** 12.00, **OD** 28.70, **OD/housing** 47.00, **Total length** 52.55, **Splines A** 10, **No./teeth** 9, **Rotation** CR

*Drive only: HC-CARGO 136257.*



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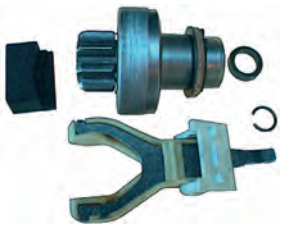
#Available while stock last, * Program development.

## 138299 Drive

**Replacing:** TMB183, 54290638, 054290638010

**Servicing:** M80, 063226904010, 063226927010, 063226932010, 26808A, 26914A, 26914F, 26920A, 26920E, 26922B, 26927A, 26928A, 26932A

**ID** 12.10, **OD** 39.50, **OD/housing** 47.75, **Total length** 50.50, **Splines A** 9, **No./teeth** 10, **Rotation** CR



## 138533 Drive

**Replacing:** 085541080010

**Servicing:** 063223039010, 063293039010

**ID** 11.60, **OD** 24.90, **OD/housing** 44.00, **Total length** 60.85, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333856

## 138546 Drive

**Replacing:** 54293455

**Servicing:** 26814

**ID** 12.00, **OD** 28.00, **OD/housing** 47.60, **Total length** 50.95, **Splines A** 9, **No./teeth** 8, **Rotation** CR

*w/ lever.*

## 139635 Drive

**Replacing:** TMB184, 54291763, 054291763010

**Servicing:** M79, 063226631010, 26631A, 26631D

**ID** 11.40, **OD** 29.00, **OD/housing** 44.00, **Total length** 48.85, **Splines A** 3, **No./teeth** 9, **Rotation** ACR

## 139655 Drive

**Replacing:** 085541870010

**Servicing:** 063103007010, 063103008010, 063103015010, 063103022010, 063103023010, 063103024010, 063103031010

**ID** 11.45, **OD** 23.50, **OD/housing** 44.00, **Total length** 64.00, **Splines A** 12, **No./teeth** 8, **Rotation** CR

*Drive w/ lever: HC-CARGO 230804.*

## 139710 Drive

**Replacing:** 54294813, 054294817010

**Servicing:** 063293538010

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

**Alternative no.:** 139710Z

## 139710Z Drive

**Replacing:** 54294813, 054294817010

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

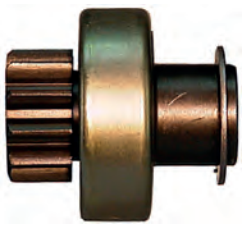
**Alternative no.:** 139710

## 139900 Drive

**Replacing:** 085541050010

**Servicing:** 063223433010

**ID** 12.00, **OD** 27.50, **OD/housing** 47.60, **Total length** 53.15, **Splines A** 10, **No./teeth** 10, **Rotation** CR

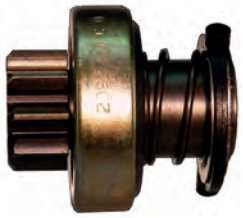


## 139901 Drive

**Replacing:** 085541680010, 085541250010

**Servicing:** 063111008010, 063111009010, 063111027010, 063111037010, 063112003010, 063113003010, 063113004010

**ID** 12.00, **OD** 29.75, **OD/housing** 47.55, **Total length** 50.20, **Splines A** 10, **No./teeth** 11, **Rotation** CR

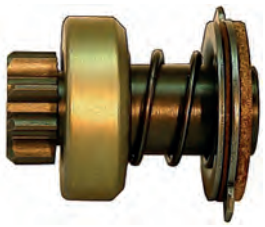


## 139902 Drive

**Replacing:** 085541700010

**Servicing:** 063114014010

**ID** 12.00, **OD** 34.25, **OD/housing** 60.00, **Total length** 64.65, **Splines A** 10, **No./teeth** 9, **Rotation** CR

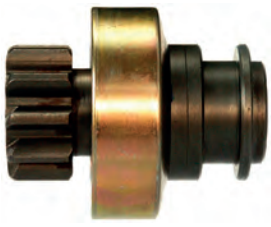


## 230025 Drive

**Replacing:** 085540401010

**Servicing:** 063223239010

**ID** 12.00, **OD** 29.50, **OD/housing** 47.60, **Total length** 64.90, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 230265 5★ Drive

**Manufacturer:** Lucas

**Replacing:** 26255474

**Servicing:** 26925188D, 26925189D, 26925194D, 26925198D, 26925200A

**ID** 14.35, **OD** 39.40, **OD/housing** 61.00, **Total length** 73.45, **Splines A** 12, **No./teeth** 10, **Rotation** CR



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#Available while stock last, * Program development.



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## 230269 5★ Drive

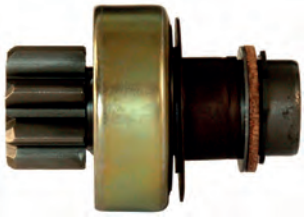
**Manufacturer:** Lucas
**Replacing:** 26255553
**Servicing:** 26925193A
**ID** 14.20, **OD** 39.30, **OD/housing** 61.00, **Total length** 73.50, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 230757 Drive

**Replacing:** 085540381010
**Servicing:** 063101003010, 063221834010, 063221890010, 063221892010
**ID** 11.60, **OD** 25.30, **OD/housing** 43.45, **Total length** 64.10, **Splines A** 12, **No./teeth** 9, **Rotation** CR
*Drive: HC-CARGO 132119.*

## 230835 Drive

**Replacing:** 220409
**ID** 12.00, **OD** 27.75, **OD/housing** 46.30, **Total length** 50.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR
**Alternative no.:** 333189 5★



## 231414 Drive

**Replacing:** 085541220010
**Servicing:** 063102000010, 063192000010
**ID** 11.65, **OD** 27.80, **OD/housing** 45.00, **Total length** 63.30, **Splines A** 12, **No./teeth** 8, **Rotation** CR

## 231478 Drive

**Replacing:** 085541390010
**Servicing:** 063191007010
**ID** 11.00, **OD** 25.40, **OD/housing** 45.25, **Total length** 57.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 232480 Drive

**Replacing:** TMB106, 54246727, 54242438
**Servicing:** M45G, 26207, 26270, 26270A, 26270J, 26300, 26300A, 26300E, 26300F, 26300J, 27410A, 27418A
**ID** 17.00, **OD** 39.20, **OD/housing** 60.45, **Total length** 73.70, **Splines A** 3, **No./teeth** 11, **Rotation** ACR

## 233331 Drive

**Replacing:** 054294771010
**Servicing:** 063191001010
**ID** 12.00, **OD** 27.95, **OD/housing** 48.00, **Total length** 65.75, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 233533 Drive

**Replacing:** TMB133, 60600380, 54260599, 54247508
**Servicing:** M45G, 26268J, 26268L, 26269H, 26269L, 26383A, 26383D, 26396A, 26396B, 27405A, 27405B, 27406A, 27447A
**ID** 12.00, **OD** 24.75, **OD/housing** 60.00, **Total length** 79.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 233946 Drive

**Replacing:** 085541810010
**Servicing:** 063111017010, 063111036010
**ID** 12.00, **OD** 25.40, **OD/housing** 47.00, **Total length** 48.45, **Splines A** 10, **No./teeth** 9, **Rotation** CR
**Alternative no.:** 333881

## 234219 Drive

**Replacing:** TMB175, 54291195
**Servicing:** M80R, 26908A, 26908B
**ID** 12.00, **OD** 25.25, **OD/housing** 49.00, **Total length** 50.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 234515 Drive

**Replacing:** 54294074, 054294074010
**Servicing:** 063226688010, 063227041010
**ID** 11.70, **OD** 26.90, **OD/housing** 45.30, **Total length** 48.10, **Splines A** 3, **No./teeth** 10, **Rotation** ACR

## 234921 Drive

**Replacing:** 072397101010
**Servicing:** 063216703010, 063216726010, 063216808010, 063216826010, 063216873010, 063217104010, 063217105010
**ID** 14.20, **OD** 34.50, **OD/housing** 60.20, **Total length** 77.15, **Splines A** 6, **No./teeth** 9
*w/ lever. Drive only: HC-CARGO 131109.*



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#Available while stock last, * Program development.

**235257** Drive

**Replacing:** 54294957, 054294957010

**Servicing:** M80R, 063226945010, 26943, 26946

**ID** 12.00, **OD** 28.00, **OD/housing** 48.65, **Total length** 50.50, **Splines A** 3, **No./teeth** 10, **Rotation** CR

**235427** Drive

**Replacing:** 54295253

**Servicing:** 26688, 27041

**OD** 43.00, **OD/housing** 27.00, **Total length** 48.00, **Splines A** 9, **No./teeth** 10, **Rotation** ACR

**235428** Drive

**Replacing:** 085541370010

**Servicing:** 063226849010, 063226950010

**ID** 12.10, **OD** 36.00, **OD/housing** 86.00, **Total length** 52.00, **Splines A** 9, **No./teeth** 11, **Rotation** ACR

**239080** Drive

**Replacing:** 085553621010

**Servicing:** 063280091010, 063280110010

**ID** 11.00, **OD** 30.00, **OD/housing** 44.82, **Total length** 43.23, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**333856** Drive

**Replacing:** 085541080010

**ID** 11.60, **OD** 24.90, **OD/housing** 46.00, **Total length** 60.85, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 138533

**333881** Drive

**Replacing:** 085541810010

**ID** 12.00, **OD** 25.40, **OD/housing** 47.00, **Total length** 48.45, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233946

## Drive Parts

### Caps

Pkg. 25

**134208** Dp Cap

**ID** 59.50, **OD** 60.95

Pkg. 10

**136968** Dp Cap

**ID** 43.00, **OD** 44.55

### Rollers

Pkg. 100

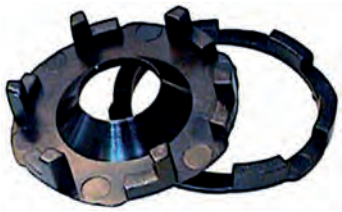
**137403** Dp Rollers

**OD** 7.90, **Length** 15.95

### Spring/Roller Retainers

**134819** Spring/roller retainer

**Servicing:** 54291911, TMB167



**134820** Spring/roller retainer

**Servicing:** 54291543, 54292929, TMB174, TMB177

**135191** Spring/roller retainer

### Pinion

**131724** Pinion

**Replacing:** TLB106, 54251756

**Servicing:** M45G, 26125, 26126, 26156, 26163, 26163A, 26163F, 26165, 26373, 26373A

**ID** 21.70, **OD** 46.00, **Height** 25.00, **No./splines** 4, **No./teeth** 13



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**131725** Pinion

**Replacing:** TLB100, 54256687, 54256098, 292031

**Servicing:** M45G, 26147, 26147A, 26147H, 26147J, 26147M, 26148A, 26148F, 26148H, 26148N, 26151H, 26151N, 26153, 26153A, 26153H

**ID** 20.25, **OD** 39.50, **Height** 25.55, **No./splines** 4, **No./teeth** 10

**131726** Pinion

**Replacing:** TLB193, TLB101, 54256689, 54255513, 292134, 291859

**Servicing:** M45G, 26133, 26167, 26169, 26176, 26177, 26185, 26206

**ID** 20.00, **OD** 39.40, **Height** 25.65, **No./splines** 4, **No./teeth** 11

**139953** Pinion

**Replacing:** SDR6014, LTH208

**ID** 13.25, **OD** 32.55, **Height** 18.25, **No./splines** 19, **No./teeth** 10

## Planet Gears

**135712** Planet Gear

**Replacing:** 54294189

**Shaft dia./middle** 11.90, **Total length** 127.25, **No./splines** 10

## Gear Parts

### Outer Gear

**133618** Outer Gear

**Replacing:** 54293830

**Servicing:** M78R, 26803, 26911, 26912, 26913, 26914, 26917, 26918, 26921, 26929, 26935, 26936, 26938, 26941, 26942, 26943, 26945

**ID** 51.85, **OD** 61.70, **Height** 27.70, **No./teeth** 40

**135121** Outer Gear

**Replacing:** 54293575, 54293375

**Servicing:** M78R, 26715, 26804, 26813, 26814, 26834, 26841, 26845

**ID** 48.00, **OD** 61.00, **Height** 27.60, **No./teeth** 39

Pkg. 5

**232604** Outer Gear

**Replacing:** 54294580

**ID** 47.25, **OD** 61.20, **Height** 25.25, **No./teeth** 37

### Gear Wheels

**138565** Gear

**Replacing:** SDR6013, LTH210

**ID** 14.30, **OD** 45.20, **Height** 16.60, **No./splines** 22, **No./teeth** 32,

## Levers

**133463** Lever

**Replacing:** SSP0030, LTH102

**Dist.** 22.60, **Length** 81.05

**133894** Lever

**Servicing:** 26211, 26227, 26265, 26291, 26311, 26316, 26329, 26338, 26339, 26341, 26360, 26379, 26395, 26431

**Dist.** 31.40, **ID** 8.00, **Length** 111.00

**134444** Lever

**Replacing:** 60600315, 54267369

**Servicing:** M127, 26213, 26330, 27500, 27501, 27502, 27506, 27508, 27510, 27512, 27515, 27518, 27533, 27539, 27541, 27553, 27564

**Dist.** 31.25, **ID** 7.70, **Length** 110.45

Pkg. 5

**134445** Lever

**Replacing:** 54267384

**Servicing:** M50, 26025007A, 26256, 26259, 26271, 26273, 26274, 26294, 26312, 26321, 26323, 26336, 26342, 26345, 26355, 26356, 26357

**Dist.** 31.35, **ID** 7.80, **Length** 110.00



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**135573** Lever

**Replacing:** SSP0031, LTH203

**Dist.** 54.55, **ID** 5.00, **Length** 114.00

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**136592** Lever

**Replacing:** 60600862, 54268543

**Servicing:** M127, 27511, 27528, 27554, 27554A

**Dist.** 31.15, **ID** 8.00, **Length** 110.15

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**138353** Lever

**Replacing:** 54267376

**Servicing:** M45G, 2M113, 26148, 26186, 26196, 26233, 26264, 26278, 26281, 26283, 26284, 26284E, 26286, 26295, 26349, 26358, 26374

**Dist.** 31.25, **ID** 7.85, **Length** 106.00

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**138354** Lever

**Replacing:** 54267380

**Servicing:** M45G, 2M113, 27430

**Dist.** 30.80, **ID** 8.00, **Length** 111.45

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## Lever Parts

### Various

Pkg. 5

**133893** Pivot Pin

**Servicing:** M50, 26145, 26154, 26167, 26173, 26200, 26211, 26220, 26227, 26264, 26265, 26267, 26271, 26278, 26281, 26284, 26284E

**Total length** 51.30

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**134446** Pivot Pin

**Replacing:** SSP0013, 61194012, 60600315, 54290573

**Servicing:** M127, 26025007A, 26148, 26186, 26196, 26213, 26233, 26264, 26273, 26274, 26283, 26286, 26294, 26295, 26311, 26312

**Total length** 39.65, **Thread size** M14/7.90

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Pkg. 5

**138888**# Lever Support

**Servicing:** M78, M80, 26009, 26715, 26717, 26722, 26801, 26804, 26805, 26806, 26807, 26809, 26810, 26812, 26813, 26815, 26816

**Length** 32.70

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**231192** Spring Kit

**Replacing:** SSP0032, LTH204

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Pkg. 5

**235192** Insulator

**Servicing:** M79, 26587, 26600, 26601, 26602, 26605, 26614, 26616, 26618, 26619, 26622, 26626, 26628, 26648, 26655, 26660, 26667

**Material** Rubber

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## Clutches

**231269** Clutch

**Replacing:** SDR6012, LTH209

**Total length** 117.00/131.00,
**No./splines** 19

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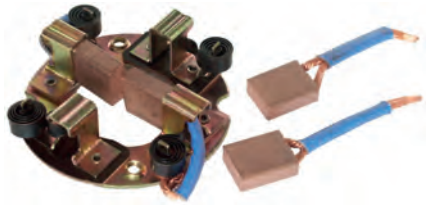
## Brush Gears



**131169** Brush Gear

**Replacing:** TAB104, SSP0004, 54245374, 054245374010

**Servicing:** M50, 063227501010, 063227502010, 063227510010, 063227512010, 063227518010, 063227533010, 063227541010, 063227547010

12 **V**, **OD** 88.70

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**132475** Brush Gear

**Replacing:** SSP6001, LTH213

12 **V**, **OD** 70.35

*Brush set: HC-CARGO 140387.*

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## 134041 Brush Gear

**Replacing:** 072164701010

**Servicing:** 063216817010, 063216818010, 063216831010, 063216852010, 063216861010, 063216884010, 063216896010, 063217226010

**OD** 93.85

*Brush set: HC-CARGO MASX15-164. Spring: HC-CARGO 234678.*

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## 134291 5★ Brush Gear

**Manufacturer:** Magneti Marelli

**Replacing:** 074891101010

**Servicing:** 063221433010, 063221434010, 063221435010, 063221436010, 063221438010, 063221530010, 063221533010, 063221536010

**OD** 89.75

*Neg. brushes. Brush set: HC-CARGO JSX21-224.*

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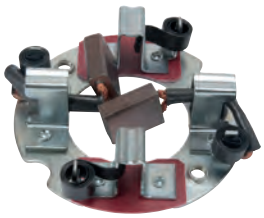

## 134452 Brush Gear

**Replacing:** SSP0003, 54244775

**Servicing:** M50, 26213, 26316, 26329, 26330, 26338, 26338A, 26338B, 26338D, 26338F, 26339, 26339A, 26339B, 26339D, 26339H, 26395

**OD** 81.55

*Brush set: HC-CARGO LASX314. Brush spring: HC-CARGO 132209.*

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Pkg. 5

## 134476 Brush Gear

**Servicing:** M35J, 5M90, 8M90, 9M90, 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25138

**OD** 52.00

*Brush set: HC-CARGO LASX37-38-39. Brush spring: HC-CARGO 134040.*

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## 134852 Brush Gear

**Replacing:** 54293879, 54293878, 54293877, 54293699, 54291804, 054293879010, 054293878010, 054293877010

**Servicing:** M79, 063226601010, 063226604010, 063226606010, 063226607010, 063226609010, 063226614010, 063226619010, 063226622010

**OD** 67.80

*Brush set: HC-CARGO 140896, 140897, 140898. Brush spring: HC-CARGO 135119.*

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## 134853 Brush Gear

**Replacing:** 54292603, 54291125, 54290790, 54290789, 054292603010, 054291125010

**Servicing:** M78R, 063226800010, 063226801010, 063226803010, 063226804010, 063226814010, 063226820010, 063226823010, 063226824010

**OD** 68.25

*Brush set: HC-CARGO 140511. Brush spring: HC-CARGO 135119.*

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## 134854 Brush Gear

**Replacing:** 54290689, 054290689010

**Servicing:** M80R, 063226908010, 063226912010, 063226921010, 063226923010, 063226935010, 063226936010, 063226937010, 063226939010

**OD** 68.30

*Brush set: HC-CARGO 140509. Brush spring: HC-CARGO 135119.*

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## 135242 5★ Brush Gear

**Manufacturer:** Magneti Marelli

**Replacing:** 072164102010

**Servicing:** 063217226010

24 **V**, **OD** 92.30

*Neg. brushes. Brush set: HC-CARGO MASX27-284.*

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## 135467 Brush Gear

**Replacing:** SSP6000

12 **V**, **OD** 74.00

*Neg. brushes. Brush set: HC-CARGO 140349.*

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## 135565 Brush Gear

**Replacing:** 54294444, 54294440, 083227260010, 083227131010, 083220461010

**Servicing:** 063111000010, 063111005010, 063111007010, 063111008010, 063111009010, 063111016010, 063111017010, 063111023010

**OD** 61.25

*Brush set: HC-CARGO JSX33-344. Spring: HC-CARGO 138639.*

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## 135604 Brush Gear

**Replacing:** 072164101010

**Servicing:** 063217126010, 063217148010, 063217154010, 063217156010, 063217158010, 063217163010, 063217180010, 063217186010

12 **V**, **OD** 90.00

*Neg. brushes. Brush set: HC-CARGO MASX25-264.*

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#Available while stock last, * Program development.

## 135822 Brush Gear

**Replacing:** TAB102, SSP005, 54266043, 054266043010

**Servicing:** 2M113, 3M113, 063227408010, 063227409010, 063227412010, 063227415010, 063227416010, 063227417010, 063227419010

**OD** 88.70

*Neg. brushes. Brush set: HC-CARGO LASX15-164.*

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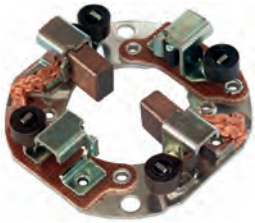

## 136204 Brush Gear

**Replacing:** 083224461010

**Servicing:** 063102003010, 063102004010, 063102007010, 063102008010, 063222900010, 063222901010, 063223085010, 063223101010

**OD** 67.00

*Neg. brushes. Brush set: HC-CARGO JSX35-374.*

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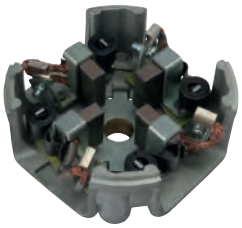

## 136734 Brush Gear

**Replacing:** 072362601010

**Servicing:** 063216702010, 063216703010, 063216704010, 063216706010, 063216707010, 063216710010, 063216726010, 063216727010

24 **V**

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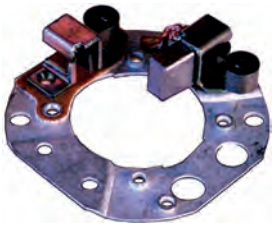

## 138534 Brush Gear

**Replacing:** 083225326010

**Servicing:** 063101000010, 063101002010, 063101008010, 063222889010, 063222897010, 063222905010, 063222908010, 063222909010

12 **V**, **OD** 67.20

*Neg. brushes. Brush set: HC-CARGO JSX38-412.*

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## 138537 Brush Gear

**Replacing:** 085540341010

**Servicing:** 063221831010, 063222031010, 063222034010, 063222036010, 063222038010, 063222039010, 063222130010, 063222131010

12 **V**, **OD** 74.00

*2.2 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.*

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## 138538 Brush Gear

**Replacing:** 085540351010

**Servicing:** 063101003010, 063221830010, 063221832010, 063221834010, 063221890010, 063221892010, 063222030010

12 **V**, **OD** 73.65

*Neg. brushes. Brush set: HC-CARGO JSX21-22.*

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## Brush Gear Parts

### Brush Holders

Pkg. 10

## 134798 Brush Gear

**Replacing:** 074894441010

**Servicing:** 063114008010

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### Brush Springs

Pkg. 10

## 132209 Brush Spring

**Replacing:** TAB100, 61194022, 54259524, 54258814

**Servicing:** M45G, M50, M127, 26025007A, 26125, 26126, 26132A, 26132F, 26132H, 26132J, 26132R, 26133, 26133A, 26133J, 26133K, 26133R

**Length** 28.70

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## 134040 Brush Spring Set

**Servicing:** 8M90, 9M90, M35J, 25350A

**OD** 8.60, **Length** 41.70

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Pkg. 500

## 134270 Dp Springs

**Length** 25.30

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Pkg. 100

## 137402 Dp Springs

**Length** 22.60

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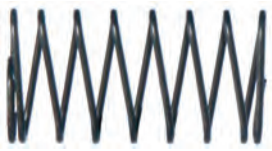
Pkg. 100



## 137404 Dp Springs

**Length** 27.20

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Pkg. 10

## 233867 Brush Spring Set

**Replacing:** SSP0037, LTH112

**OD** 12.00, **Length** 21.00

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**233868** Brush Spring Set
**Replacing:** SSP0038, LTH217
**OD** 11.50, **Length** 22.70

## Various

Pkg. 2

**134956** Insulator
**Servicing:** M79, 26587, 26600, 26601, 26602, 26605, 26614, 26616, 26618, 26619, 26622, 26624, 26626, 26628, 26628A, 26648, 26649
**ID** 31.00, **OD** 73.00, **Colour** White, **Material** Polypropylene

Pkg. 10

**134957** Clip
**Servicing:** M78, M79, M80, 26812, 26835, 26847

Pkg. 10

**135066** Gasket
**Servicing:** M35J
**ID** 23.00, **OD** 51.75, **Thickness** 0.40

**135120** Insulator
**Servicing:** M79, ACR, 26604, 26606, 26607, 26631, 26633, 26646, 26647, 26659, 26660, 26690, 26692, 26693, 26694, 26696, 27029

**135497** Insulation Kit
**Servicing:** M50

Pkg. 10

**137825**# Brush Clip
**Servicing:** M79, 26812, 26835, 26847
**ID** 6.00, **Length** 14.35, **Thickness** 1.55, **Width** 9.35

## Brush Sets

**140334** Brush Set
**Replacing:** TAJ100
12 **V**, **Length** 18.00, **Lead length** 33.00, **Height** 11.00, **Thickness** 7.00

**140336** Brush Set
**Replacing:** TAJ101
12 **V**, **Length** 16.00, **Lead length** 36.50, **Height** 11.00, **Thickness** 7.00

**140337** Brush Set
**Replacing:** TAJ114
12 **V**, **Length** 19.50, **Lead length** 51.00, **Height** 20.00, **Thickness** 9.00

**140338** Brush Set
**Replacing:** TAJ106
12 **V**, **Length** 16.00, **Lead length** 43.50, **Lead length 2** 33.50, **Height** 14.00, **Thickness** 7.00

**140339** Brush Set
**Replacing:** TAJ111, TAJ103
12 **V**, **Length** 22.00, **Lead length** 43.50, **Height** 15.00, **Thickness** 8.00

**140340** Brush Set
**Replacing:** TAJ102
12 **V**, **Length** 14.00, **Lead length** 33.60, **Height** 16.00, **Thickness** 6.00

**140341** Brush Set
**Replacing:** TAJ105
12 **V**, **Length** 16.00, **Lead length** 32.00, **Height** 16.00, **Thickness** 7.00



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**140347** Brush Set
**Replacing:** TAJ203
12 **V**, **Length** 17.00, **Lead length** 38.00, **Height** 12.00, **Thickness** 6.80

**140349** Brush Set
**Replacing:** TAJ209
12 **V**, **Length** 17.00, **Lead length** 37.00, **Height** 10.00, **Thickness** 7.00

**140357** Brush Set
**Replacing:** TAJ400
12 **V**, **Length** 19.00, **Lead length** 40.50, **Height** 11.90, **Thickness** 7.00

Pkg. 5

**140358** Brush Set
**Replacing:** TAJ406
12 **V**, **Length** 22.00, **Lead length** 50.00, **Height** 20.00, **Thickness** 8.00

**140360** Brush Set
**Replacing:** TAJ401
12 **V**, **Length** 16.00, **Lead length** 38.50, **Height** 12.00, **Thickness** 7.00

**140361** Brush Set
**Replacing:** TAJ407
12 **V**, **Length** 21.00, **Lead length** 40.80, **Height** 25.00, **Thickness** 8.00
*Brush set w/ plate: HC-CARGO 141223.*

**140362** Brush Set
**Replacing:** TAJ410, TAJ403
12 **V**, **Length** 14.00, **Lead length** 34.00, **Height** 16.00, **Thickness** 7.00

**140363** Brush Set
**Replacing:** TAJ409
12 **V**, **Length** 16.00, **Lead length** 27.00, **Height** 10.00, **Thickness** 6.50

**140391** Brush Set
**Replacing:** TAJ200
12 **V**, **Length** 14.00, **Lead length** 37.50, **Height** 17.00, **Thickness** 6.80

**140396** Brush Set
**Replacing:** TAJ405
12 **V**, **Length** 13.50, **Lead length** 23.00, **Height** 16.00, **Thickness** 7.00

**140480** Brush Set
**Replacing:** 60600953
**Servicing:** M79, 26604, 26607, 26647, 26660, 26690, 26692, 26693, 26694, 26696, 27029, 27034, 27045
12 **V**, **Length** 12.00, **Lead length** 32.00, **Lead length 2** 64.00/97.00, **Height** 13.70, **Thickness** 7.00
*w/ brush bar: HC-CARGO 140897.*

**140481** Brush Set
**Replacing:** 60600961, 60600911
**Servicing:** M79, 26009, 26587, 26600, 26601, 26602, 26605, 26614, 26616, 26618, 26619, 26622, 26624, 26626, 26648, 26649, 26655
12 **V**, **Length** 12.00, **Lead length** 75.00, **Height** 13.70, **Thickness** 7.00
*w/ brush bar: HC-CARGO 140898, 140896.*

**140510** Brush Set
**Replacing:** TAB133, 60600936
**Servicing:** M78R, 26701A, 26701J, 26707A, 26707L, 26713A, 26713D, 26715, 26715B, 26716B
12 **V**, **Length** 9.40, **Lead length** 49.50, **Lead length 2** 29.00, **Height** 13.80, **Thickness** 6.80

**140511** Brush Set
**Replacing:** TAB134, 60600946
**Servicing:** M78R, 26009, 26800D, 26800H, 26801, 26801B, 26801F, 26802B, 26803A, 26803D, 26804, 26804A, 26804E, 26805, 26806, 26807
12 **V**, **Length** 9.40, **Lead length** 50.00, **Lead length 2** 27.50, **Height** 13.80, **Thickness** 6.80



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#Available while stock last, * Program development.



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## 140512 Brush Set

**Replacing:** TAB135, 60600944

**Servicing:** M78R, 26702, 26702E, 26702K, 26717, 26717A, 26722, 26812, 26835, 26847

12 **V**, **Length** 9.40, **Lead length** 44.00, **Lead length 2** 30.00, **Height** 13.80, **Thickness** 6.80

## 140513 Brush Set

**Replacing:** TAB138, 60600919

**Servicing:** M80R, ACR

12 **V**, **Length** 9.40, **Lead length** 69.00, **Lead length 2** 24.00, **Height** 19.80, **Thickness** 6.80

## 140603 Brush Set

**Replacing:** TAB106, 60600688, 60600626

**Servicing:** M45G, 26145, 26148, 26154, 26167, 26173, 26186, 26196, 26200, 26219, 26220, 26233, 26264, 26271, 26278, 26283, 26286

12 **V**, **Length** 22.20, **Lead length** 90.00, **Height** 19.00, **Thickness** 7.90

## 140716 Brush Set

**Replacing:** TAB112, 60600317

**Servicing:** M127, 27301A, 27301H, 27301K, 27305A, 27305H, 27305K, 27307A, 27307E, 27307H, 27309A, 27309E, 27311A, 27311E, 27311H

24 **V**, **Length** 24.50, **Lead length** 72.50, **Height** 19.90, **Thickness** 8.95

## 140765 Brush Set

**Replacing:** TAB132, 60600920, 140765

**Servicing:** M80R, 26903, 26903B, 26903D, 26905A, 26905D, 26907B, 26908A, 26908B, 26909B, 26909D, 26910D, 26910F, 26911B, 26911D

12 **V**, **Length** 9.40, **Lead length** 32.00, **Height** 19.80, **Thickness** 6.80
*w/ brush bar: HC-CARGO 140509.*

## 140896 Brush Set

**Replacing:** TAB131

**Servicing:** M79, 26602, 26614, 26614B, 26614D, 26618, 26619, 26619A, 26619D, 26622, 26622A, 26622D, 26689, 27026, 27061

12 **V**, **Length** 12.00, **Lead length** 55.00, **Lead length 2** 75.00/49.00/25.00, **Height** 13.70, **Thickness** 7.00
*w/o brush bar: HC-CARGO 140481.*

## 140897 Brush Set

**Replacing:** TAB136

**Servicing:** M79, 26604E, 26604J, 26606E, 26606H, 26607, 26607E, 26607J, 26631A, 26631D, 26633A, 26633B, 26645E, 26646B, 26646D

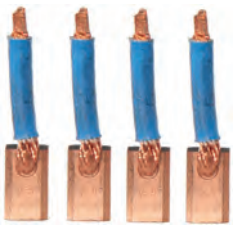
12 **V**, **Length** 12.00, **Lead length** 97.50, **Lead length 2** 64.50, **Height** 13.00, **Thickness** 7.00

## 140898 Brush Set

**Replacing:** TAB137

**Servicing:** M79, 26587, 26600, 26600E, 26600F, 26601, 26601E, 26601F, 26602D, 26602H, 26605, 26605A, 26609F, 26609J, 26613E, 26613H

12 **V**, **Length** 12.00, **Lead length** 49.00, **Lead length 2** 72.50, **Height** 13.70, **Thickness** 7.00
*w/ brush bar: HC-CARGO 140481.*



## 141234 Brush Set

**Servicing:** 26925159A, 26925159B, 26925159E

12 **V**, **Length** 17.00, **Lead length** 36.00, **Height** 10.00, **Thickness** 7.40

## 142344 Brush Set

**Replacing:** TAB125, 271735

**Servicing:** M45G, M113L

12 **V**, **Length** 22.20, **Lead length** 91.00, **Lead length 2** 48.50, **Height** 19.00, **Thickness** 7.90

**Alternative no.:** LASX15-164

## LASX15-164 Brush Set

**Replacing:** TAB125, 271735

**Servicing:** M45G, M113, 26072, 26132, 26133, 26173, 26256, 26259, 26281, 26321, 26346E, 27419, 27476

12 **V**, **Length** 22.20, **Lead length** 91.00, **Lead length 2** 48.50, **Height** 19.00, **Thickness** 7.90

**Alternative no.:** 142344



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## LASX15-274 Brush Set

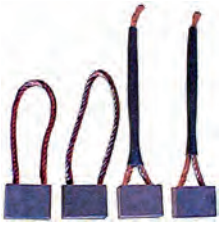
**Servicing:** M45G, M113, 26125, 26126, 26156, 26163, 26165, 26267, 26286, 26373, 27413, 27415, 27432, 27463, 27464, 27479, 27487

12 **V**, **Length** 22.20, **Lead length** 94.00, **Lead length 2** 62.00/52.00, **Height** 19.00, **Thickness** 7.90

## LASX17-62/1 Brush Set

**Servicing:** M35G, 25038, 25038E, 25038H, 25059A, 25059F, 25079A, 25079J, 25083A, 25083H, 25085A, 25085B, 25088A, 25088J, 25105A

12 **V**, **Length** 14.20, **Lead length** 109.00, **Lead length 2** 59.00/45.00, **Height** 15.90, **Thickness** 6.40



## LASX2-34 Brush Set

**Servicing:** M418G, 25521F, 25533A, 25533E, 25555A, 25555F, 25578A, 25578B, 25590A, 25590B, 25593A, 25593B, 25594A, 25597A, 25597B

12 **V**, **Length** 13.50, **Lead length** 98.00, **Lead length 2** 50.00, **Height** 19.00, **Thickness** 8.80

## LASX22 Brush Set

**Replacing:** TAB127, 270005, 255659

**Servicing:** M418G

12 **V**, **Length** 13.50, **Lead length** 96.00, **Height** 19.00, **Thickness** 8.80

## LASX314 Brush Set

**Replacing:** TAB119, 54258592

**Servicing:** M50, 26211, 26211A, 26211L, 26211M, 26211T, 26211U, 26213, 26227, 26291, 26291A, 26291D, 26291E, 26316, 26329, 26330

12 **V**, **Length** 22.20, **Lead length** 63.00, **Height** 19.00, **Thickness** 7.90

## LASX364 Brush Set

**Replacing:** TAB118, 54259517

**Servicing:** M50, M127, 26211, 26213, 26227, 26265, 26273, 26274, 26284, 26284E, 26291, 26294, 26311, 26312, 26316, 26323, 26329

12 **V**, **Length** 26.00, **Lead length** 67.50, **Height** 20.00, **Thickness** 9.00

## LASX37-38-39 Brush Set

**Replacing:** 54242194

**Servicing:** M35J, -K, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25147A, 25147H, 25148A

12 **V**, **Length** 16.00, **Lead length** 109.00, **Lead length 2** 83.00/43.00, **Height** 11.60, **Thickness** 3.50/9.50

## LASX40-412P Brush Set

**Replacing:** TAB117, 60600056, 54244848

**Servicing:** M35J, -K

12 **V**, **Length** 16.00, **Lead length** 131.00, **Lead length 2** 73.00/36.00, **Height** 11.60, **Thickness** 3.50/9.50

## LASX424 Brush Set

**Replacing:** 54244979

**Servicing:** M50, M127, 26227A, 26227Q, 26227R, 26227V, 26234A, 26234J, 26234K, 26246A, 26246L, 26246M, 26265J, 26265M, 26273A

12 **V**, **Length** 25.00, **Lead length** 71.00, **Height** 20.00, **Thickness** 9.00

## LASX43-442 Brush Set

**Replacing:** TAB124, 54246258

**Servicing:** M100, 25629A, 25629E, 25634A, 25634E, 25638A, 25638E, 25642A, 25642F, 25643A, 25643J, 25644A, 25644K, 25647A, 25647L

12 **V**, **Length** 17.50, **Lead length** 109.00, **Lead length 2** 53.50, **Height** 13.30, **Thickness** 4.70/10.30

## LASX44-452P Brush Set

**Replacing:** TAB116, 60600196

**Servicing:** M100, 25631A, 25631D, 25636B, 25637B, 25659A, 25659D, 25668A, 25668D, 25669A, 25670A, 25670B, 25676A, 25676B, 25677A

12 **V**, **Length** 17.50, **Lead length** 143.50, **Lead length 2** 96.00/45.00, **Height** 13.30, **Thickness** 4.70/10.30

## LASX5-62/1P Brush Set

**Replacing:** TAB128, 251108

**Servicing:** M35G, 25022, 25071, 25079, 25083, 25085, 25105, 25112

12 **V**, **Length** 14.20, **Lead length** 109.00, **Lead length 2** 59.00/45.00, **Height** 15.90, **Thickness** 6.40



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## LASX73-412/1P Brush Set

**Replacing:** TAB103, 60600767

**Servicing:** M35J, 25326A, 25326E, 25331A, 25331D, 25332A, 25332E, 25333A, 25335A, 25335B, 25336A, 25337A, 25337B, 25338A, 25338B

12 **V**, **Length** 16.00, **Lead length** 97.00, **Lead length 2** 52.00/40.00, **Height** 11.60, **Thickness** 3.50/9.50

## Brushes

Pkg. 100

## LAS40 Brush

**Replacing:** LASX40-412P

12 **V**, **Length** 14.15, **Lead length** 79.00, **Lead length 2** 39.00, **Height** 11.60, **Thickness** 4.00/8.55

**Alternative no.:** LASX40-412P

Pkg. 100

## LAS41 Brush

**Replacing:** LASX40-412P

12 **V**, **Length** 14.20, **Lead length** 133.00, **Height** 11.60, **Thickness** 4.00/8.60

**Alternative no.:** LASX40-412P

Pkg. 100

## LAS73# Brush

**Replacing:** LASX73-412/1P

12 **V**, **Length** 15.70, **Lead length** 53.00, **Height** 11.80, **Thickness** 4.00/8.45

**Alternative no.:** LASX73-412/1P

## Bushings

Pkg. 10

## 140052 Bushing

**Replacing:** TCB127, 250626

**ID** 12.74, **OD** 15.85, **Length** 19.00

Pkg. 10

## 140053 Bushing

**Replacing:** TCB123, 255491

**Servicing:** 37MT, 25521F, 25533A, 25533E, 25555A, 25555F, 25578A, 25578B, 25598A, 25605A, 25605D, 25607A, 25609A, 25609E, 25610A

**ID** 15.99, **OD** 19.15, **Length** 18.90

**Alternative no.:** B140053

Pkg. 10

## 140054 Bushing

**Replacing:** TCB125, 251477

**Servicing:** 25022, 25038, 25038E, 25038H, 25071, 25079, 25079A, 25079J, 25083, 25083A, 25083H, 25085, 25085A, 25085B, 25088A

**ID** 12.76, **OD** 15.84, **Length** 12.70

Pkg. 10

## 140056 Bushing

**Replacing:** 54241267

**Servicing:** 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25118, 25138, 25147, 25149, 25150

**ID** 11.15, **OD/collar** 26.20, **OD** 15.85, **Length** 16.30, **Height/collar** 2.40

**Alternative no.:** B140056

Pkg. 10

## 140057 Bushing

**Replacing:** TCB114, 54252054

**Servicing:** 25130A, 25130B, 25140A, 25140E, 25143A, 25143E, 25144A, 25144B, 25151A, 25152A, 25154A, 25154F, 25155A, 25155H, 25202A

**ID** 12.08, **OD** 15.07, **Length** 16.90

**Alternative no.:** B140057

Pkg. 10

## 140058 Bushing

**Replacing:** TCB113, 54252236

**Servicing:** 26072, 26132, 26132H, 26132J, 26132R, 26133K, 26133R, 26143J, 26143Q, 26145, 26146H, 26146N, 26147J, 26147M, 26148H

**ID** 14.06, **OD** 17.06, **Length** 19.70

**Alternative no.:** B140058

Pkg. 10

## 140059 Bushing

**Replacing:** TCB124, 253316

**Servicing:** 25022, 25071, 25079, 25079A, 25079J, 25083, 25083A, 25083H, 25085, 25085A, 25085B, 25088A, 25088J, 25105, 25105A

**ID** 19.11, **OD** 20.70, **Length** 17.90

## 140102 Bushing Kit

**Replacing:** TCB117, 54244773

**Servicing:** M35J INERTIA, 25147A, 25147H, 25149B, 25149H, 25150A, 25150E, 25241A, 25241B, 25242A, 25242D

**ID** 19.15, **OD/collar** 25.35, **OD** 22.20, **Length** 20.35, **Height/collar** 2.50



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## 140103 Bushing Kit

**Replacing:** TCB116, 54245343

**Servicing:** M35J, M100 8M90, -9M90, 25113A, 25113F, 25130A, 25130B, 25137A, 25137E, 25137F, 25137N, 25140A, 25140E, 25143A, 25143E

**ID** 11.20, **OD/collar** 26.15, **OD** 15.85, **Length** 12.35, **Height/collar** 2.85

## 140104 Bushing Kit

**Replacing:** TCB118, SSP0020, 61194019, 54243853

**Servicing:** M45, M50, 26125F, 26148, 26186, 26196, 26208A, 26208E, 26211, 26211A, 26211L, 26211M, 26211T, 26211U, 26213, 26213A

Pkg. 10

## 140144 Bushing

**Replacing:** TCB120, 271364

**Servicing:** 26132A, 26132F, 26133A, 26133J, 26143A, 26143H, 26145A, 26145F, 26146A, 26146F, 26147A, 26147H, 26148A, 26148F, 26149A

**ID** 12.76, **OD** 15.91, **Length** 16.50

Pkg. 10

## 140207 Bushing

**Replacing:** 256112

**ID** 12.77, **OD** 14.36, **Length** 17.40

Pkg. 10

## 140212 Bushing

**Replacing:** TCB112, 54252494

**Servicing:** 26132, 26143J, 26143Q, 26145, 26154, 26167, 26172A, 26172D, 26172E, 26172L, 26200, 26219, 26220, 26391, 27421

**ID** 25.47, **OD** 28.65, **Length** 21.60

**Alternative no.:** B140212

Pkg. 5

## 140215 Bushing

**Replacing:** 54246200

**Servicing:** 35MT

**ID** 14.35, **OD** 17.55, **Length** 19.00

## 140528 Bushing Kit

**Replacing:** TCB129, 60600914

**Servicing:** 26587, 26600, 26600E, 26600F, 26601, 26601E, 26601F, 26602, 26602D, 26602H, 26604, 26604E, 26604J, 26605, 26605A

## 140590 Bushing Kit

**Replacing:** TCB106, 60600306

**Servicing:** 26372A, 26372B, 26385A, 26385B, 26390A, 26390B, 26390E, 26394A, 26394D, 26437A, 26437B, 26925188D, 26925189D, 26925193A

## 140592 Bushing Kit

**Replacing:** TCB108, 60600178

**Servicing:** 25148A, 25148K, 25198A, 25238A, 25238E, 25239A, 25239F, 25265A, 25265F, 25276A, 25276E, 25295A, 25295E, 25345A

*15.85x11.19x18.84. 15.90x11.12x12.73. 22.26x19.08x20.50.*

## 140593 Bushing Kit

**Replacing:** TCB110, 60600047

**Servicing:** 26269A, 26269F, 26269H, 26269L, 26327A, 26327H, 26346A, 26346D, 26346E, 26346K, 26381A, 26381D, 26381E, 26381F, 26383A

Pkg. 10

## 140594 Bushing

**Replacing:** 271733

**Servicing:** 26173

**ID** 25.50, **OD** 28.66, **Length** 17.30

Pkg. 10

## 140625 Bushing

**ID** 12.03, **OD** 13.50, **Length** 18.79

**Alternative no.:** B140625

**140646** Bushing Kit

**Replacing:** TCB130, 60600924

**Servicing:** 26009, 26701A, 26701J, 26702, 26702E, 26702K, 26707A, 26707L, 26708, 26713A, 26713D, 26715, 26715B, 26716B, 26717

**140655** Bushing Kit

**Replacing:** TCB131, 60600956

**Servicing:** 26689, 26910D, 26910F, 26911B, 26911D, 26913, 26913A, 26920A, 26920E, 26921, 26922B, 26924B, 26929A, 26929B, 26930A

Pkg. 10

**140656** Bushing

**Replacing:** 54257833

**Servicing:** 26025007A, 26211, 26213, 26227, 26284, 26284E, 26291, 26312, 26330, 26336, 26428, 26428A, 26430, 26430A, 26430D

**ID** 12.75, **OD** 19.14, **Length** 14.00

**Alternative no.:** B140656

Pkg. 10

**140657** Bushing

**Replacing:** 54256132

**Servicing:** 26148, 26186, 26196, 26213, 26233, 26264, 26267, 26273, 26283, 26286, 26330, 26365, 26379, 26391A, 26411, 26412, 27408

**ID** 12.80, **OD** 15.95, **Length** 14.00

**Alternative no.:** B140657

Pkg. 10

**140658** Bushing

**Replacing:** 54255966

**Servicing:** 26025007A, 26925196A, 26925196B

**ID** 17.07, **OD** 21.05, **Length** 22.00

**Alternative no.:** B140658

Pkg. 10

**140659** Bushing

**Replacing:** 54256151

**Servicing:** 26148, 26186, 26196, 26211, 26213, 26227, 26233, 26264, 26273, 26283, 26284, 26284E, 26286, 26291, 26312, 26316, 26329

**ID** 28.56, **OD/collar** 38.10, **OD** 31.77, **Length** 13.00, **Height/collar** 2.35

**Alternative no.:** B140659

Pkg. 10

**140661** Bushing

**Servicing:** 25016, 25024, 25041, 25061, 25062, 25063, 25065, 25075, 25087, 25088, 25089, 25097, 25138, 25147, 25149, 25201, 25238

**ID** 19.10, **OD/collar** 25.40, **OD** 22.25, **Length** 20.50, **Height/collar** 2.50

**Alternative no.:** B140661

Pkg. 10

**140662** Bushing

**Servicing:** 25326, 25338, 26267

**ID** 12.07, **OD** 15.05, **Length** 14.05

**Alternative no.:** B140662

Pkg. 10

**140663** Bushing

**Replacing:** 54264884

**Servicing:** 25290, 25326, 25338, 25339, 25355

**ID** 11.17, **OD/collar** 26.20, **OD** 15.85, **Length** 12.60, **Height/collar** 3.00

**Alternative no.:** B140663

Pkg. 10

**140664** Bushing

**ID** 22.35, **OD/collar** 31.70, **OD** 26.25, **Length** 34.00, **Height/collar** 5.00

**Alternative no.:** B140664

Pkg. 10

**140665** Bushing

**Servicing:** 26009, 26602, 26605, 26607, 26616, 26618, 26667, 26681, 26689, 26692, 26696, 26699, 26801, 26809, 26810, 26813, 26815

**ID** 12.05, **OD** 15.10, **Length** 7.80

**Alternative no.:** B140665

Pkg. 10

**140666** Bushing

**ID** 11.18, **OD** 15.85, **Length** 18.85



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Pkg. 10

**140688** Bushing
**Servicing:** 27564, 27595
**ID** 14.32, **OD** 17.62, **Length** 22.20
**Alternative no.:** B140688

Pkg. 10

**140689** Bushing
**Servicing:** 27455
**ID** 12.09, **OD** 15.08, **Length** 19.00
**Alternative no.:** B140689

Pkg. 10

**140746** Bushing
**Replacing:** TCB122, 270038
**Servicing:** M45G, 25521F, 25533A, 25533E, 25555A, 25555F, 25578A, 25578B, 25598A, 25605A, 25605D, 25607A, 25609A, 25609E, 25610A
**ID** 22.05, **OD** 25.45, **Length** 33.60

Pkg. 10

**140997#** Bushing
**Servicing:** 25349, 25350, 25351
**ID** 11.03, **OD** 13.55, **Length** 20.00

Pkg. 10

**141013** Bushing
**Servicing:** M78, M80R, 26009, 26805, 26806, 26807, 26809, 26810, 26813, 26815, 26816, 26820, 26823, 26824, 26827, 26829, 26830
**ID** 16.50, **OD/collar** 22.00, **OD** 20.00, **Length** 8.00, **Height/collar** 1.50

Pkg. 10

**141014** Bushing
**Servicing:** M78, M80R, 26009, 26715, 26801, 26809, 26810, 26813, 26815, 26816, 26823, 26824, 26830, 26831, 26832, 26833, 26834
**ID** 11.14, **OD/collar** 17.50, **OD** 14.34, **Length** 9.00, **Height/collar** 1.50

Pkg. 10

**141016** Bushing
**ID** 17.03, **OD** 18.75, **Length** 25.00

Pkg. 10

**141072#** Bushing
**ID** 17.30, **OD** 18.85, **Length** 24.90

Pkg. 100

**B140053** Bushing
**Replacing:** TCB123, 255491
**ID** 15.99, **OD** 19.15, **Length** 18.90
**Alternative no.:** 140053

Pkg. 100

**B140056** Bushing
**Replacing:** 54241267
**ID** 11.15, **OD/collar** 26.20, **OD** 15.85, **Length** 16.30, **Height/collar** 2.60
**Alternative no.:** 140056

Pkg. 100

**B140057** Bushing
**Replacing:** TCB114, 54252054
**ID** 12.08, **OD** 15.07, **Length** 16.90
**Alternative no.:** 140057

Pkg. 100

**B140058** Bushing
**Replacing:** TCB113, 54252236
**ID** 14.06, **OD** 17.07, **Length** 19.50
**Alternative no.:** 140058

Pkg. 100

**B140062** Bushing
**Replacing:** 227818, 227713
**ID** 15.10, **OD** 18.20, **Length** 22.15
**Alternative no.:** 140062

Pkg. 100

**B140212** Bushing
**Replacing:** TCB112, 54252494
**ID** 25.47, **OD** 28.65, **Length** 21.60
**Alternative no.:** 140212

Pkg. 100

**B140625** Bushing
**Replacing:** 140625
**ID** 12.04, **OD** 13.52, **Length** 18.80
**Alternative no.:** 140625

Pkg. 100

**B140656** Bushing
**Replacing:** 54257833
**ID** 12.75, **OD** 19.14, **Length** 14.00
**Alternative no.:** 140656

Pkg. 100

**B140657** Bushing
**Replacing:** 54256132
**ID** 12.80, **OD** 15.95, **Length** 14.00
**Alternative no.:** 140657

Pkg. 100

**B140658** Bushing
**Replacing:** 54255966
**ID** 17.07, **OD** 21.05, **Length** 22.00
**Alternative no.:** 140658

Pkg. 100

**B140659** Bushing
**Replacing:** 54256151
**Servicing:** 26025007A, 26925196A, 26925196B
**ID** 28.56, **OD/collar** 38.10, **OD** 31.77, **Length** 13.00, **Height/collar** 2.40
**Alternative no.:** 140659

Pkg. 100

**B140661** Bushing
**Replacing:** 140661
**ID** 19.10, **OD/collar** 25.40, **OD** 22.25, **Length** 20.50, **Height/collar** 2.50
**Alternative no.:** 140661

Pkg. 100

**B140662** Bushing
**Replacing:** 140662
**ID** 12.07, **OD** 15.05, **Length** 14.05
**Alternative no.:** 140662

Pkg. 100

**B140663** Bushing
**Replacing:** 54264884
**ID** 11.17, **OD** 15.85, **Length** 12.60
**Alternative no.:** 140663

Pkg. 100

**B140664**[#] Bushing
**Replacing:** 140664
**ID** 22.35, **OD/collar** 31.70, **OD** 26.25, **Length** 34.00, **Height/collar** 5.00
**Alternative no.:** 140664

Pkg. 100

**B140665** Bushing
**Replacing:** 140665
**ID** 12.02, **OD** 15.07, **Length** 7.80
**Alternative no.:** 140665



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[#]Available while stock last, ***** Program development.

Pkg. 100

**B140688** Bushing
**Replacing:** 140688
**ID** 14.32, **OD** 17.62, **Length** 22.20
**Alternative no.:** 140688

Pkg. 100

**B140689** Bushing
**Replacing:** 140689
**ID** 12.09, **OD** 15.08, **Length** 19.00
**Alternative no.:** 140689

## Bearings

### Ball Bearings

Pkg. 10

**140271** FAG 6000-C-2HRS-C3 Ball Bearing
**Replacing:** UMB120
**ID** 10.00, **OD** 26.00, **Height** 8.00
**Alternative no.:** 142277, 333099

Pkg. 10

**140412** M410X12971 Ball Bearing
**Replacing:** SSP6002
**ID** 19.00, **OD** 37.00, **Height** 9.00, **Bushing** w/

### Needle Bearings

Pkg. 10

**141263** 5★ Needle Bearing
**Replacing:** 720000400
**Servicing:** 26925159A, 26925159B, 26925159E
**ID** 12.50, **OD** 16.00, **Height** 9.93

## Repair Kits

**233045** Repair Kit
**Servicing:** M50, M127, 26265, 26273, 26365, 26411, 27408, 27432, 27474
*Incl.: HC-CARGO 130879, 131298, 4x HC-CARGO 132209, 135500, 140104, LASX364.*

## Sundry Parts

### Covers

Pkg. 5

**132928** Cap
**Servicing:** 8M90, 25277, 25281, 25281B, 25326, 25331, 25332, 25335, 25338, 25339, 25344, 25349, 25350, 25351, 25355, 25356, 25357
**OD** 28.00, **Height** 14.55

Pkg. 5

**133637** Cap
**Servicing:** 8M90, 9M90
**OD** 26.80, **Height** 13.15

Pkg. 5

**138884** Cover
**Servicing:** M79, 26587, 26600, 26601, 26602, 26605, 26614, 26616, 26618, 26619, 26622, 26626, 26628, 26648, 26655, 26660, 26667
**ID** 20.00, **OD** 32.50, **Height** 13.50
*Gasket: HC-CARGO 138881.*

**231195** Cover Kit
**Replacing:** SSP0034, LTH211

Pkg. 10

**232065** Dust Cover
**Servicing:** M79, M80, 26667, 26921, 26929, 26936, 26938, 27022, 27043, 27047
**OD** 15.80, **Height** 5.60
*Tolerance of thickness is +0.10/-0.05 mm.*

### O-rings

Pkg. 10

**134692** O-ring
**Servicing:** M127, 26355, 26356, 26388, 26407, 27511, 27554
**ID** 6.00, **Thickness** 2.50



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Pkg. 10

**139839** O-ring

**Servicing:** 26025007A, 26355, 26356, 26388, 26407, 26925196A, 26925196B

**ID** 7.00, **Thickness** 2.50

## Thru Bolts

Pkg. 10

**232066**# Through Bolt

**Servicing:** 26607, 26692, 26696, 26702, 26715, 26717, 26722, 27045

**Total length** 136.15, **Thread size** M6, **Thread size/rear** M6

**235008** Through Bolt Kit

**Servicing:** M50, M127, 26025007A, 26925196A, 26925196B

**Thread** M8, **Total length** 200.60, **Thread length** 18.90

## Various

Pkg. 10

**130869** Insulator

**Servicing:** M35J

Pkg. 10

**130871** Terminal Bolt

**Replacing:** SSP0025, 272022

**Servicing:** M45G, 26148, 26173, 26196, 26256, 26259, 26267, 26278, 26283, 26321, 26371, 26386, 26400, 26414, 27417, 27478, 27486

**Total length** 40.55, **Thread length** 23.60, **Thread size** 1/4" BSF

**130879** Brake Kit

**Replacing:** TZT110, SSP0027, 54243852

**Servicing:** M50, 26025007A, 26148, 26186, 26196, 26208A, 26208E, 26209A, 26209E, 26211, 26213, 26215A, 26215F, 26215H, 26227, 26233

**131298** Seal Kit

**Replacing:** SSP0015, SSP0014, 61194014, 61194013, 60600020, 54244971

**Servicing:** M50, M127, 26025007A, 26213, 26273A, 26273D, 26273E, 26273F, 26273H, 26273M, 26274, 26274A, 26274D, 26274E, 26274F

Pkg. 10

**132771** Insulator

**Servicing:** M35G

Pkg. 10

**133914** Star Washer

**Replacing:** TLB185

**Servicing:** M35J, K, M78, M79, 5M90, 25137A, 25137E, 25137F, 25137N, 25145A, 25145H, 25145J, 25146A, 25146J, 25146K, 25157A, 25157J

Pkg. 10

**134095**# Insulator

**Servicing:** 2M100, 3M100

Pkg. 5

**134096** Dust Cover

**Servicing:** 2M100, 3M100

**ID** 35.00, **OD** 24.00, **Height** 14.50

Pkg. 10

**134459** Brass Nut

**Replacing:** SSP0023, 172580, 134459

**Servicing:** M35J

**Thread** 1/4" UNFx28, **OD** 11.00, **Lock nut** No



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Pkg. 10

**134460** Brass Nut

**Servicing:** M35J

**Thread** M6, **OD** 10.00, **Lock nut** No

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**135122** Screw

**Servicing:** M35, M45, M50, M418, 26025007A, 26925196A, 26925196B

**Thread** 3/8" W, **Length** 7.40, **Total length** 14.65

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Pkg. 5

**135123** Insulator

**Servicing:** M79, 26812, 26835, 26847

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**135499** Pole Screw Kit

**Servicing:** M45, 26173, 26256, 26259, 26267, 26321, 26371, 26400, 26925188D, 26925189D, 26925193A, 26925194D, 26925196A, 26925198D

*Metric.*

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**135500** Parts Kit

**Replacing:** TLB189, 54243855

**Servicing:** M50, M127, 25128A, 25128B, 25130A, 25130B, 26208A, 26208E, 26211A, 26211L, 26211M, 26211T, 26211U, 26213, 26215A

*Metric.*

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**135501** Terminal Kit

**Servicing:** M45, M50, M127

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Pkg. 5

**135916** Dust Cover

**Servicing:** M79, 26602, 26607, 26614, 26618, 26619, 26622, 26626, 26692, 26696, 27026, 27045, 27061

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Pkg. 5

**136272** Gasket

**Servicing:** M45G

**Length** 352.90, **Thickness** 1.95, **Width** 39.80

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Pkg. 10

**136274** Gasket

**Servicing:** M50

**Length** 75.00, **Thickness** 0.55, **Width** 8.00

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Pkg. 5

**136275** Gasket

**Servicing:** M45G

**Length** 289.00, **Thickness** 0.50, **Width** 27.80

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Pkg. 5

**136277** Gasket

**Servicing:** M50

**ID** 36.00, **OD** 58.00, **Thickness** 0.30

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Pkg. 5

**136279** Gasket

**Servicing:** M50, 26025007A, 26925196A, 26925196B

**Length** 283.35, **Thickness** 0.35, **Width** 38.10

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Pkg. 5

**136322** Insulator

**Servicing:** 2M113

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**136339** Sealing Kit

**Replacing:** 60600026

**Servicing:** M45G, 2M113, 27430

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Pkg. 5

**136949** Insulator

**Servicing:** M50, 26211, 26227, 26265, 26267, 26291

Pkg. 5

**136950** Insulator

**Servicing:** M50, 26211, 26227, 26274, 26284, 26284E, 26291, 26295, 26312, 26323, 26345, 26349, 26358, 26366, 26374, 26410, 26416

Pkg. 5

**137494** Insulator

**Servicing:** M50

Pkg. 5

**137495** Insulator

**Servicing:** 2M113, 26173, 26271, 26278, 26413, 27413, 27417, 27425, 27432, 27446, 27460, 27463, 27468, 27478, 27486

Pkg. 10

**137532** Nut

**Replacing:** SSP0026, 54132580

**Servicing:** M35J, 26125, 26126, 26145, 26148, 26154, 26156, 26163, 26165, 26167, 26186, 26196, 26200, 26220, 26233, 26264, 26265

**Thread** 1/4" BSF, **OD** 13.25, **Lock nut** No

Pkg. 5

**138138** Terminal Bolt

**Replacing:** SSP0024, 256746

**Servicing:** M45G, 26125, 26126, 26156, 26163, 26165, 26311, 26341, 26342, 26360, 26373, 26431, 27564, 27595

**Total length** 53.00, **Thread length** 34.65, **Thread size** 1/4" BSF

**138683** Stop Collar Kit

**Replacing:** TLB186

**Servicing:** 0001108...,0001109..., 26614, 26619, 26622, 26667, 26813, 26834, 26841, 26845, 26903, 26903B, 26903D, 26913, 26935

Pkg. 10

**138880**# Snap Ring

**Servicing:** M78, M79, M80, M35G, 25206, 25250, 25255, 25276, 25288, 25368, 25400, 26587, 26600, 26601, 26602, 26618, 26628, 26648

**Thickness** 2.00

*Stop collar: HC-CARGO 235084.*

Pkg. 100

**192404** Hex Screw

**Replacing:** 192404

**Servicing:** M45G

**Thread** 1/4" UNF, **Spanner size** 7/16", **DIN norm** 933, **ISO Norm** 4017

**231194** Stop Collar Kit

**Replacing:** SSP0033, LTH105

**ID** 12.10, **OD** 17.40, **Height** 5.00

Pkg. 10

**235084** Stop Collar

**Servicing:** M35, M78, M79, M80, 25400, 26648, 26655, 26686, 26925159B, 26925159E

**ID** 12.30, **OD** 17.10, **Height** 4.00



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## Armatures

### 9 V

**138338** Armature

**Servicing:** 63217101, 63217105, 63217106, 63217116, 63217118, 63217138, 63217147, 63217152

9 **V**, 2.5 **kW**, **Shaft length** 295.90, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

*High torque.*

### 12 V

**130360** Armature

**Replacing:** 74861761

**Servicing:** 63220700, 63220701, 63220703, 63220704, 63220705, 63220706, 63220721, 63220724, 63220732, 63220734, 63220735, 63220740

12 **V**, 0.8 **kW**, **Shaft length** 250.00, **Core thickness** 54.40, **No./splines** 12, **Rotation** CR

**130370** Armature

**Replacing:** 74874761, 74868531, 74866521

**Servicing:** 63222243, 63222408, 63222430, 63222435, 63222437, 63222438, 63222439, 63222453, 63222506, 63222531, 63222532, 63222536

12 **V**, 1.3 **kW**, **Shaft length** 268.55, **Core thickness** 67.00, **No./splines** 12, **Rotation** CR

**130386** Armature

**Replacing:** 72386803, 72386801

**Servicing:** 63216800, 63216808, 63216814, 63216815, 63216816, 63216825, 63216826, 63216827, 63216851, 63216852, 63216873, 63216876

12 **V**, 3.5 **kW**, **Shaft length** 321.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

**130945** Armature

**Replacing:** 74870031, 74869671

**Servicing:** 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201030, 63201050, 63201100, 63220107, 63220108, 63220137

12 **V**, 0.5 **kW**, **Shaft length** 230.00, **Core thickness** 51.75, **No./splines** 2, **Rotation** ACR

**131132** Armature

**Replacing:** 74892151, 74886931

**Servicing:** 63220507, 63220536, 63220537, 63220538

12 **V**, 0.5 **kW**, **Shaft length** 232.50, **Core thickness** 51.70, **No./splines** 12, **Rotation** CR

**131472** Armature

**Replacing:** 72163701

**Servicing:** 63217126, 63217148, 63217154, 63217156, 63217158, 63217163, 63217186, 63217188, 63217407, 63217408, 63217410, 63217433

12 **V**, 2.5 **kW**, **Shaft length** 292.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

**Alternative no.:** F032131472

**131668** 5★ Armature

**Manufacturer:** Magneti Marelli

**Replacing:** 74880991

**Servicing:** 63221300, 63221302, 63221303, 63221330, 63221332, 63221333, 63221338, 63221400, 63221401, 63221430, 63221431, 63221531

12 **V**, 0.9 **kW**, **Shaft length** 220.00, **Core thickness** 60.00, **No./splines** 12, **Rotation** CR

**131670** Armature

**Replacing:** 72382301

**Servicing:** 63217101, 63217104, 63217105, 63217106, 63217107, 63217110, 63217116, 63217117, 63217118, 63217119, 63217120, 63217121

12 **V**, 2.5 **kW**, **Shaft length** 296.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

**132615** Armature

**Replacing:** 74893711

**Servicing:** 63101003, 63221800, 63221830, 63221832, 63221834, 63221890, 63221892

12 **V**, 0.8 **kW**, **Shaft length** 185.50, **Core thickness** 60.00, **No./splines** 12, **Rotation** CR

**132619** Armature

**Replacing:** 74891011

**Servicing:** 63221403, 63221404, 63221408, 63221433, 63221434, 63221436, 63221438, 63221500, 63221530, 63221533, 63221539, 63221630

12 **V**, 1.1 **kW**, **Shaft length** 231.40, **Core thickness** 59.85, **No./splines** 10, **Rotation** CR

## 132817 Armature

**Replacing:** 74899021, 74894221

**Servicing:** 50246416, 63114008, 63114010, 63114014, 63114017, 63221801, 63221831, 63222000, 63222001, 63222005, 63222030, 63222031

12 **V**, 2.2 **kW**, **Shaft length** 134.20, **Core thickness** 58.95, **No./teeth** 11, **Rotation** CR/ACR

**Alternative no.:** F032132817

## 132849# Armature

**Replacing:** 74888921

**Servicing:** 63223203, 63223233, 63223236, 63223237, 63223238, 63223239, 63223330, 63223331, 63223332

12 **V**, 1.6 **kW**, **Shaft length** 266.50, **Core thickness** 64.90, **No./splines** 10, **Rotation** CR

## 133567 Armature

**Manufacturer:** Magneti Marelli

**Replacing:** 83225372, 83220031

**Servicing:** 50246532, 50246648, 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63222897, 63223031, 63223032, 63223033

12 **V**, 1 **kW**, **Shaft length** 216.30, **Core thickness** 51.45, **No./splines** 12, **Rotation** CR

**Alternative no.:** 335084

## 133955 Armature

**Replacing:** 72169501, 72162601

**Servicing:** 63216731, 63216817, 63216818, 63216831, 63216852, 63216884, 63216896, 63616896, MT68AD, MT68LC, MT68PB, MT68RA, MT68T

12 **V**, 3.5 **kW**, **Shaft length** 317.50, **Core thickness** 74.95, **No./splines** 12, **Rotation** CR

## 133970 Armature

**Replacing:** 72378301

**Servicing:** 63216802, 63216833, 63616831

12 **V**, 3.5 **kW**, **Shaft length** 328.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

## 134122 Armature

**Replacing:** 74895901, 74845901

**Servicing:** 63224600, 63224602, M125M3-Z9(3/12)

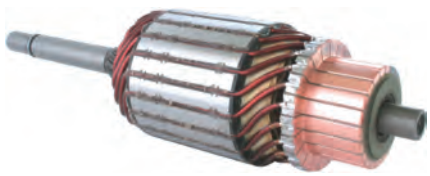
12 **V**, 3 **kW**, **Shaft length** 336.60, **Core thickness** 82.60, **No./splines** 12, **Rotation** CR

## 134653# Armature

**Replacing:** 74885041

**Servicing:** 63221304, 63221305, 63221437, 63221535

12 **V**, 0.9 **kW**, **Shaft length** 223.60, **Core thickness** 59.90, **No./splines** 12, **Rotation** CR



## 135620 Armature

**Replacing:** 86226811, 83227678, 83226811, 83226536, 83225727, 83225127

**Servicing:** 63101000, 63101002, 63101008, 63102003, 63102004, 63102007, 63102008, 63103002, 63103003, 63103007, 63103008, 63103015

12 **V**, 1 **kW**, **Shaft length** 202.40, **Core thickness** 51.45, **No./splines** 12, **Rotation** CR

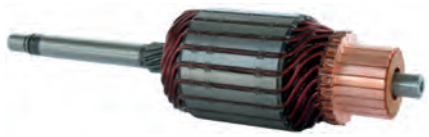
**Alternative no.:** F032135620

## 136643 Armature

**Replacing:** 74891351

**Servicing:** 63221405, 63221435, 63221536

12 **V**, 1.1 **kW**, **Shaft length** 231.50, **Core thickness** 59.90, **No./splines** 10, **Rotation** ACR

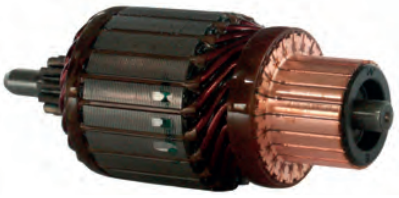


## 138443 Armature

**Replacing:** 83225758

**Servicing:** 30000A, 30001A, 30002A, 30003A, 63223103, 63223104, 63223182, 63230001, 63230003, 63293103, 63293104

12 **V**, 0.8 **kW**, **Shaft length** 218.45, **Core thickness** 51.55, **No./splines** 12, **Rotation** ACR



## 138526 5★ Armature

**Manufacturer:** Magneti Marelli

**Replacing:** 83227126

**Servicing:** 63111001, 63111005, 63111006, 63111007, 63111008, 63111009, 63111010, 63111016, 63111017, 63111018, 63111023, 63111027

12 **V**, 1.4 **kW**, **Shaft length** 120.00, **Core thickness** 47.45, **No./teeth** 11



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## 231159 Armature

**Replacing:** 83226316

**Servicing:** 63113001, 63113002, 63113003, 63113004, 63193001

12 **V**, 1.8 **kW**, **Shaft length** 130.50, **Core thickness** 48.50, **No./teeth** 11

**Alternative no.:** F032231159

## 234093 Armature

**Replacing:** 83225937

**Servicing:** 63102000, 63102000A, 63192000, 63223106

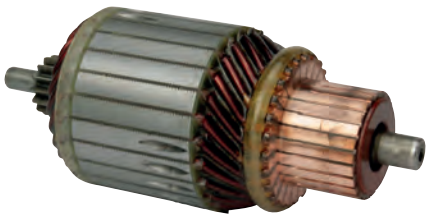
12 **V**, 0.9 **kW**, **Shaft length** 202.90, **Core thickness** 51.45, **No./splines** 12, **Rotation** CR

## 235469 Armature

**Replacing:** 83225702

**Servicing:** 63223039, 63293039

12 **V**, 0.9 **kW**, **Shaft length** 195.30, **Core thickness** 51.60, **No./splines** 12



## 235662 Armature

**Servicing:** 63280040

12 **V**, 3 **kW**, **Shaft length** 147.00, **Core thickness** 59.00, **No./teeth** 14

## 237078 Armature

**Servicing:** 063102018010, 063102021010, 63101015, 63101018, 63101021, 63101022, 63101023, 63102020, 63102022, 63103024

12 **V**, 0.9 **kW**, **Shaft length** 187.00, **Core thickness** 51.50, **No./splines** 12, **Rotation** CR

## 238843 Armature

**Servicing:** 63103031

12 **V**, 1 **kW**, **Shaft length** 202.00, **Core thickness** 51.58, **No./splines** 12

### 24 V

## 130347 Armature

**Replacing:** 74899901

24 **V**, 2.3 **kW**, **Shaft length** 298.00, **Core thickness** 74.90, **No./splines** 3, **Rotation** CR

*w/ 12 splines: HC-CARGO 134641.*

## 131470 Armature

**Replacing:** 72163201

**Servicing:** 63216731, 63216741, MT67AA, MT67AD, MT67CB

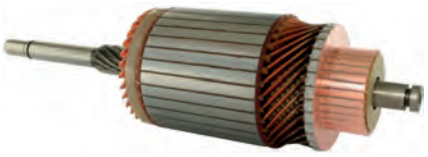
24 **V**, 4 **kW**, **Shaft length** 317.55, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

## 132951 Armature

**Replacing:** 72386601

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216740, MT67A, MT67AB, MT67C, MT67CA

24 **V**, 4 **kW**, **Shaft length** 321.00, **Core thickness** 74.90, **No./splines** 12, **Rotation** CR



## 133030 Armature

**Replacing:** 72161601

**Servicing:** 63217226, MT72AB

24 **V**, 3 **kW**, **Shaft length** 292.20, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

## 134641 Armature

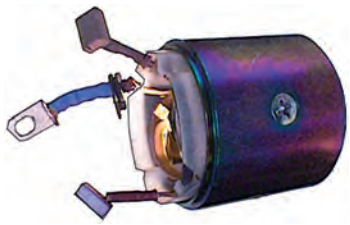
**Replacing:** 74700901

**Servicing:** 63221535, 63223800, 63223802, 63223807, 63223830, 63223832

24 **V**, 2.3 **kW**, **Shaft length** 298.60, **Core thickness** 74.85, **No./splines** 12, **Rotation** CR

*w/ 3 splines: HC-CARGO 130347.*

### Field Cases



## 136143 Field Case

**Replacing:** 83223311, 83221651, 83220991

**Servicing:** 50246532, 50246648, 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63223031, 63223032, 63223033, 63223034

12 **V**, 0.8/1 **kW**, **OD/middle** 80.45, **Length** 76.00, **Brush gear** w/o

**138536**# Field Case

**Replacing:** 83226348, 83225146

**Servicing:** 30000A, 30001A, 63101000, 63101002, 63101008, 63222888, 63222889, 63222905, 63222908, 63222909, 63222936, 63223104

12 **V**, 0.8 **kW**, **OD/middle** 80.50, **Length** 70.60, **Brush gear** w/o

*Field coil: HC-CARGO 135621. Brush: HC-CARGO JSX38-412.*

**139625** Field Case

**Replacing:** 83226564

**Servicing:** 63114014, 63280040

12 **V**, 2.6 **kW**, **OD/middle** 94.50, **Length** 75.25, **Brush gear** w/o

*Field coil: HC-CARGO 234092. Brush set: HC-CARGO JSX53-54.*

## Field Coils

### 12 V

**130325** Field Coil

**Replacing:** 70494804, 70494803

**Servicing:** 63213853, 63213855, 63216225, 63216233

12 **V**, 3 **kW**, **Height** 116.00, **Internal height** 71.25, **Inner width** 28.65

**130359**# Field Coil

**Replacing:** 74860061

**Servicing:** 63220700, 63220701, 63220703, 63220704, 63220705, 63220706, 63220721, 63220724, 63220732, 63220734, 63220735, 63220740

12 **V**, 0.8 **kW**, **Height** 80.45, **Width** 166.00, **Internal height** 55.25, **Inner width** 16.35

**130368**# Field Coil

**Replacing:** 74866471

**Servicing:** 63103002, 63222408, 63222438, 63222506, E100-1.3/12V8

12 **V**, 1.3 **kW**, **Height** 93.80, **Internal height** 62.45, **Inner width** 24.20

**130369** Field Coil

**Replacing:** 74866481

**Servicing:** 63103002, 63222408, 63222438, 63222506, E100-1.3/12V8

12 **V**, 1.3 **kW**, **Height** 97.20, **Internal height** 62.25, **Inner width** 24.30

**131314** Field Coil

**Replacing:** 60737105

12 **V**, 2.3/2.7 **kW**, **Height** 113.55, **Internal height** 72.85, **Inner width** 33.00

**131474** 5★ Field Coil

**Manufacturer:** Magneti Marelli

**Replacing:** 72166001

**Servicing:** 63217126, 63217148, 63217154, 63217188, 63217410, MT71AB, MT71DB, MT71TA, MT74L

12 **V**, 2.5 **kW**, **Height** 105.55, **Internal height** 70.25, **Inner width** 27.30

**131680** Field Coil

**Replacing:** 72381901, 72142401

**Servicing:** 63217101, 63217104, 63217105, 63217118, 63217119, 63217120, 63217121, 63217125, 63217147, MT71A, MT71AA, MT71D, MT71DA

12 **V**, 2.5 **kW**, **Height** 119.90, **Internal height** 73.00, **Inner width** 27.45

**134017** Field Coil

**Replacing:** 74890961

**Servicing:** 63221403, 63221404, 63221405, 63221408, 63221433, 63221434, 63221435, 63221436, 63221438, 63221500, 63221530, 63221533

12 **V**, 1.1 **kW**, **Height** 75.00, **Internal height** 46.90, **Inner width** 21.45, **Rotation** ACR

**134044** Field Coil

**Replacing:** 74888361, 74885011, 74880921

**Servicing:** 63221300, 63221302, 63221303, 63221308, 63221322, 63221330, 63221332, 63221333, 63221334, 63221335, 63221400, 63221401

12 **V**, 0.9 **kW**, **Height** 78.40, **Internal height** 41.35, **Inner width** 19.95



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**136625** Field Coil

**Replacing:** 74898981, 74894121

**Servicing:** 63114008, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222035, 63222036, 63222038, 63222039

12 **V**, 2.2 **kW**, **Height** 71.80, **Width** 190.00, **Internal height** 43.30, **Inner width** 19.55

*Brush set: HC-CARGO JSX31-32.*

**234092** Field Coil

**Servicing:** 63114014, 63280040

12 **V**, 2.6 **kW**, **Height** 77.65, **Internal height** 42.20, **Inner width** 21.20

## 24 V

**131473** Field Coil

**Replacing:** 72165901

**Servicing:** 63216731, 63216741, MT67AA, MT67AD, MT67CB

24 **V**, 4 **kW**, **Height** 122.55, **Internal height** 88.40, **Inner width** 28.65

**133059** Field Coil

**Replacing:** 74893931

**Servicing:** 63101003, 63221800, 63221830, 63221832, 63221834, 63221890

12 **V**, 0.8 **kW**, **Height** 62.15, **Width** 202.90, **Internal height** 35.30, **Inner width** 21.20

**133595** 5★ Field Coil

**Manufacturer:** Magneti Marelli

**Replacing:** 72165701

**Servicing:** 63217226, MT72AB

24 **V**, 3 **kW**, **Height** 103.70, **Internal height** 70.15, **Inner width** 27.50

## C.E. Brackets

**136163** 5★ C.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72163904, 72163903

**Servicing:** 63216741, 63216896, 63217148, 63217158, 63217410, MT67CB, MT68LC, MT71DB, MT74L

**ID** 105.00

**136206** C.E. Bracket

**Replacing:** 83225386, 83225272, 83221161

**Servicing:** 50246532, 50246648, 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63222897, 63223031, 63223032, 63223033

**136223** 5★ C.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72163901

**Servicing:** 63216731, 63216831, 63216861, 63217126, 63217226, MT67AA, MT67AD, MT68AD, MT71AB, MT72AB

**ID** 106.00

**136974** 5★ C.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72313962, 72163906

**Servicing:** 63216852, 63216884, 63217156, 63217163, MT68PB, MT68RA, MT68T

**ID** 106.00

**136975** 5★ C.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72313961, 72163902

**Servicing:** 63217154, MT71TA

**ID** 106.00

**138556** C.E. Bracket

**Replacing:** 83226699, 83225970, 83225135

**Servicing:** 63101000, 63101002, 63101008, 63101022, 63101023, 63102000, 63102000A, 63102003, 63102004, 63102007, 63102008, 63103002

**ID** 75.00

**231941** C.E. Bracket

**Replacing:** 83226889

**Servicing:** 63114014

**ID** 91.00

**235301** C.E. Bracket

**Replacing:** 83226713, 83225622, 74899041

**Servicing:** 63114008, 63114010, 63114017, 63222005, 63222035

**ID** 91.50

*Bushing: HC-CARGO 140430.*

## D.E. Brackets

**135764** D.E. Bracket

**Replacing:** 85541475

**Servicing:** M50, 63227500, 63227569

**136203** 5★ D.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72362308, 72362307, 72143107, 72143106, 72143105, 72143104, 72143103, 72143101

**Servicing:** 63216731, 63216800, 63216825, 63216826, 63216827, 63216831, 63217121, 63217125, 63217126, 63217201, 63217225, 63217226

**136878** D.E. Bracket

**Replacing:** 85541483

**Servicing:** M50, M127, 63227510, 63227572, 63227578, 63227583, 63227591, 63227594, 63227599

**137025** D.E. Bracket

**Replacing:** 72388401, 72157902, 72157901

**Servicing:** 63216703, 63216740, 63216741, MT67CA, MT67CB

**137213** 5★ D.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 72142003, 72134003, 72134002

**Servicing:** 63216814, 63216876, 63216884, 63217106, MT68P, MT68PA, MT68PB

**138351** D.E. Bracket

**Replacing:** 85541472, 85541456

**Servicing:** M50, M127, 63227541, 63227547, 63227565, 63227568, 63227590, 63227598

**138434** D.E. Bracket

**Replacing:** 85541453

**Servicing:** M127-2.8 KW, 63227502, 63227518, 63227570, 63227574, 63227585, 63227588, 63227592, 63227596

**139032** D.E. Bracket

**Replacing:** 85541468, 85541465, 85541336

**Servicing:** M127, 63227510, 63227553, 63227564, 63227565, 63227571, 63227588, 63227590, 63227596, 63227600, 63227602, 63227603

**139629** 5★ D.E. Bracket

**Manufacturer:** Marelli

**Replacing:** 83226888

**Servicing:** 63114014

**235122** D.E. Bracket

**Replacing:** 83226437

**Servicing:** 63102008, 63222900

**235302** D.E. Bracket

**Servicing:** 63114017, 63222005

**235304** D.E. Bracket

**Replacing:** 83226116, 83225846

**Servicing:** 63102003, 63102004

*Bushing: HC-CARGO 140050.*



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## I.M. Brackets

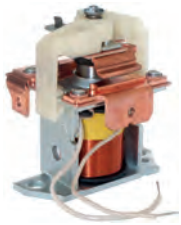
### 231024 I.M. Bracket

**Replacing:** 72364801

**Servicing:** 63216800, 63216815, 63216825, 63216826, 63216827, 63216851, 63216876, MT62BA, MT68A, MT68AA, MT68AB, MT68AC, MT68PA

## Solenoids

### 12 V

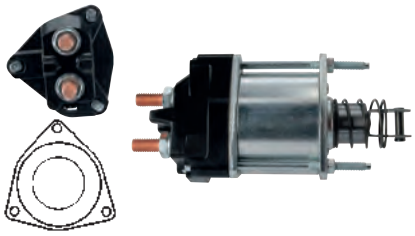


### 130281 Solenoid

**Replacing:** IE14AA, 636331425, 63631425

**Servicing:** 63213853, 63213855, 63216225, 63216233

12 **V**, **B+** Cable, **OD** 85.90, **Total length** 93.80

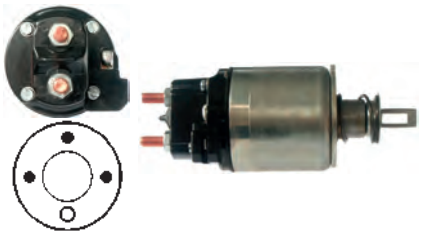


### 130367 Solenoid

**Replacing:** 63600507

**Servicing:** 63222400, 63222430, 63222700, 63222701, 63222730, 63222731

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.80, **OD** 57.90, **OD/cover** 49.70, **Total length** 143.70, **Height/B+** 18.50, **Width/kl. 50** 9.90, **Coil bolt** M8, **Coil bolt 2** 18.50, **No./terminals** 3
*Cap: HC-CARGO 131324.*

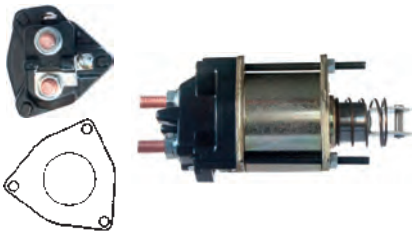


### 130373 Solenoid

**Replacing:** 63602290, 63602200

**Servicing:** 63224600, 63224602, 63224691, M125M3-Z9(3/12)

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 68.45, **OD/cover** 67.00, **Total length** 179.55, **Height/B+** 20.90, **Coil bolt** M8, **Coil bolt 2** 20.90, **No./terminals** 3
*Cap: HC-CARGO 131327.*

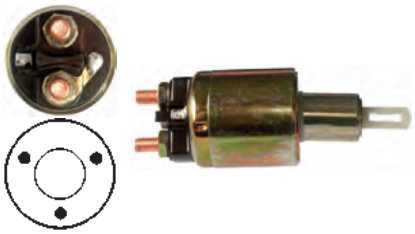


### 130377 Solenoid

**Replacing:** 63902000, 63600400

**Servicing:** 63220700, 63220701, 63220703, 63220721, 63220743, E84-0.8/12V1, E84-0.8/12V3

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.70, **OD/cover** 64.35, **Total length** 148.85, **Height/B+** 22.40, **Width/kl. 50** 22.80, **Coil bolt** M8, **Coil bolt 2** 22.40, **No./terminals** 3
*Cap: HC-CARGO 131325.*



### 130830 Solenoid

**Replacing:** IE36A, 63633603, 63633601, 63602302

**Servicing:** 63216800, 63216808, 63216825, 63216826, 63216827, 63216873, 63217104, 63217105, 63217107, MT62BA, MT68A, MT68AA, MT68AB

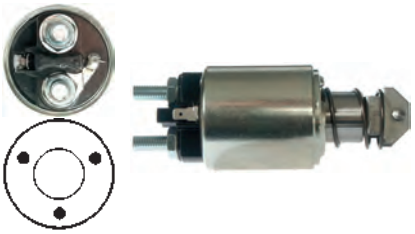
12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.60, **OD** 61.10, **OD/cover** 53.55, **Total length** 142.55, **Height/B+** 21.00, **Width/kl. 50** 9.45, **Coil bolt** M10, **Coil bolt 2** 21.00, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*

### 130848 Solenoid

**Replacing:** 74870151

**Servicing:** 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201100, 63201101, 63220107, 63220108, 63220137, 63220138

12 **V**

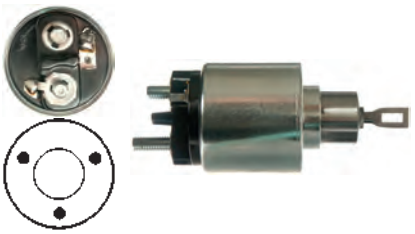


### 131112 Solenoid

**Replacing:** IE38AAA, 85540221, 85540011, 79036683, 63693801, 63633825, 63633806, 63633801

**Servicing:** 63216800, 63216815, 63216825, 63216826, 63216827, 63216831, 63216833, 63216851, 63216859, 63216861, 63216874, 63216896

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 61.00, **Total length** 159.00, **Height/B+** 20.70, **Width/kl. 50** 6.20, **Coil bolt** M10, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*

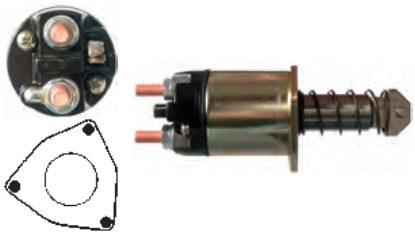


### 131143 Solenoid

**Replacing:** 82368225

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.35, **Total length** 140.80, **Height/B+** 20.00, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 12.60, **No./terminals** 3
*Cap: HC-CARGO 131315.*

**Alternative no.:** 333147 5★, 333665

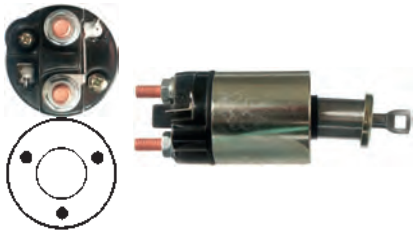


## 131437 Solenoid

**Replacing:** 85540911, 85540721, 85540281, 85530290, 85530280, 63600508, 63600506, 63600505, 63600504, 63600502

**Servicing:** 63206002, 63206003, 63220408, 63220430, 63220432, 63220433, 63220438, 63220439, 63220537, 63220538, 63220700, 63220701

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 50.40, **OD/cover** 50.40, **Total length** 127.50, **Height/B+** 21.45, **Width/kl. 50** 13.95, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

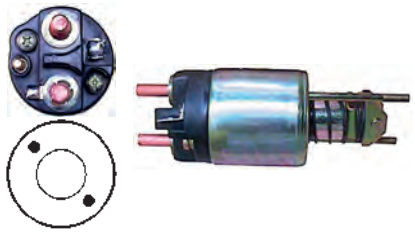


## 131589 Solenoid

**Replacing:** 85540071, 63601600

**Servicing:** 63221800, 63221830, 63223438

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.15, **OD** 50.15, **OD/cover** 50.15, **Total length** 124.55, **Height/B+** 20.60, **Width/kl. 50** 14.15, **Coil bolt** M8, **Coil bolt 2** 20.60, **No./terminals** 3
*Cap: HC-CARGO 132250. Moving Contact: HC-CARGO 132251.*

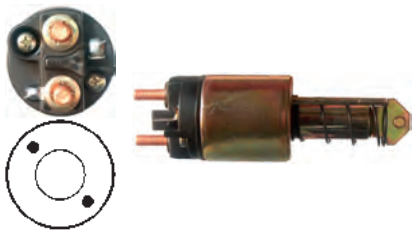


## 132137 Solenoid

**Replacing:** 85540301, 85530000, 63600800

**Servicing:** 63221300, 63221330, 63221401, 63221431

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.30, **OD/cover** 50.30, **Total length** 147.25, **Height/B+** 18.75, **Width/kl. 15a** 7.25, **Width/kl. 50** 15.55, **Coil bolt** M8, **Coil bolt 2** 18.90, **No./terminals** 4
*Cap: HC-CARGO 132138.*

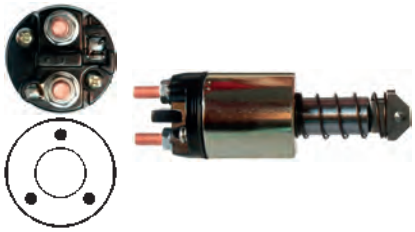


## 132227 Solenoid

**Replacing:** 85540591, 85530010, 63600802

**Servicing:** 63220506, 63220536, 63220901, 63220931, 63221303, 63221309, 63221333, 63221338, 63221404, 63221431, 63221434, 63221637

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.20, **OD/cover** 50.00, **Total length** 148.30, **Height/B+** 19.30, **Width/kl. 50** 14.70, **Coil bolt** M8, **Coil bolt 2** 19.85, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

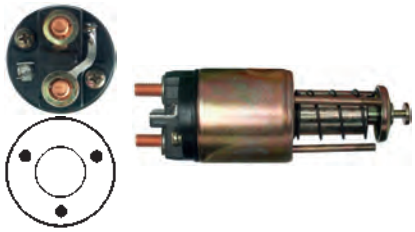


## 132228 Solenoid

**Replacing:** 85540561, 85540001, 85530330, 63601768, 63600901

**Servicing:** 50246416, 63220932, 63221400, 63221403, 63221405, 63221430, 63221433, 63221435, 63221436, 63221438, 63221500, 63221530

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 20.25, **OD/cover** 50.35, **Total length** 127.55, **Height/B+** 20.85, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 21.70, **No./terminals** 3
*Cap: HC-CARGO 132229. Moving Contact: HC-CARGO 132246.*

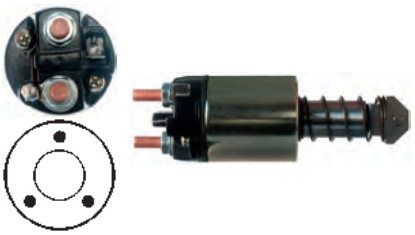


## 132249 Solenoid

**Replacing:** 85540371, 63601700

**Servicing:** 63221834, 63221890

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.00, **OD** 52.30, **OD/cover** 49.55, **Total length** 133.50, **Height/B+** 14.00, **Width/kl. 50** 15.35, **Coil bolt** M8, **Coil bolt 2** 14.75, **No./terminals** 3
*Cap: HC-CARGO 231816. Moving contact: HC-CARGO 132251.*

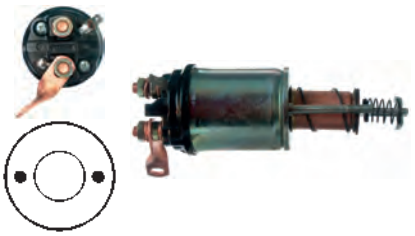


## 133083 Solenoid

**Replacing:** 85540581, 63600900

**Servicing:** 63221831, 63222000, 63222030, 63222031, 63222034, 63222036, 63222038, 63222039, 63222130, 63222133, 63222134

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 50.25, **OD/cover** 50.30, **Total length** 127.00, **Height/B+** 21.25, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 22.70, **No./terminals** 3
*Cap: HC-CARGO 132229.*

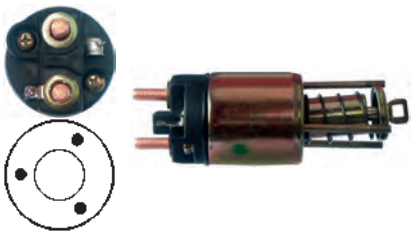


## 133531 Solenoid

**Replacing:** 85541325, 85541322, 85541320

**Servicing:** M127, 63227500, 63227502, 63227510, 63227518, 63227528, 63227539, 63227541, 63227547, 63227564, 63227565, 63227568

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.90, **OD** 53.85, **OD/cover** 60.00, **Total length** 181.00, **Height/B+** 13.00, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3
*Cap: HC-CARGO 131015.*



## 133566 Solenoid

**Replacing:** 85540991, 85540473, 85540471, 85540231, 063601962000

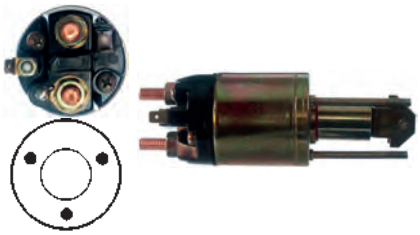
**Servicing:** 50246532, 63221832, 63221892, 63222831, 63222832, 63222833, 63222836, 63222837, 63222897, 63223031, 63223032, 63223033

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.40, **OD/cover** 50.10, **Total length** 141.00, **Height/B+** 19.00, **Width/kl. 50** 21.55, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Cap: HC-CARGO 132229.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



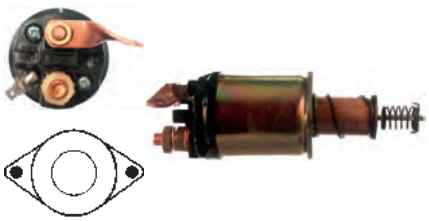
## 134862 Solenoid

**Replacing:** 85540461

**Servicing:** 63221305, 63221437, 63221535

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 23.00, **OD** 51.70, **OD/cover** 50.35, **Total length** 147.30, **Height/B+** 22.00, **Width/kl. 15a** 12.40, **Width/kl. 50** 10.15, **Coil bolt** M8, **Coil bolt 2** 21.15, **No./terminals** 4

*Cap: HC-CARGO 136055.*



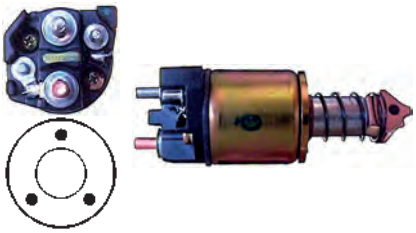
## 134888 Solenoid

**Replacing:** 85541323

**Servicing:** M127/2.8 KW, 63227501, 63227508, 63227567, 63227575, 63227586, 63327575, 63327586

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 26.00, **OD** 53.60, **OD/cover** 59.70, **Total length** 181.45, **Height/B+** 24.55, **Width/kl. 50** 23.55, **Coil bolt** M8, **Coil bolt 2** 19.65, **No./terminals** 3

*Cap: HC-CARGO 132270.*



## 136164 Solenoid

**Replacing:** 85540711

**Servicing:** 63222035, 63292035

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 23.20, **OD** 51.50, **OD/cover** 54.25, **Total length** 131.90, **Height/B+** 14.55, **Width/kl. 30h** 8.20, **Width/kl. 50** 10.15, **Coil bolt** M8, **Coil bolt 2** 13.70, **No./terminals** 4

*Cap: HC-CARGO 231582. w/ 30H terminal.*

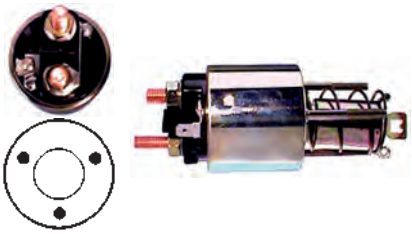
## 136889 Solenoid

**Replacing:** 77222

**Servicing:** M78R, 63226848

12 **V**, **OD** 46.00, **Total length** 126.00, **No./terminals** 3

*Cap: HC-CARGO 136892.*



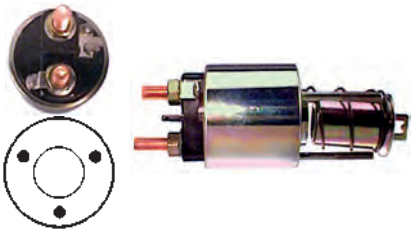
## 137190 Solenoid

**Replacing:** 85541410, 85540981

**Servicing:** 63222889, 63222900, 63222936, 63223109

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.25, **OD** 53.90, **OD/cover** 46.80, **Total length** 126.55, **Height/B+** 23.70, **Width/kl. 50** 13.80, **Coil bolt** M8, **Coil bolt 2** 11.40, **No./terminals** 3

*Cap: HC-CARGO 137347.*



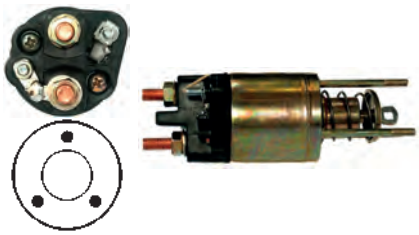
## 137191 Solenoid

**Replacing:** 85541820, 85541430, 85540961

**Servicing:** 63222900, 63223085, 63223303

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 53.80, **OD/cover** 49.00, **Total length** 126.70, **Height/B+** 26.40, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3

*Cap: HC-CARGO 139602.*



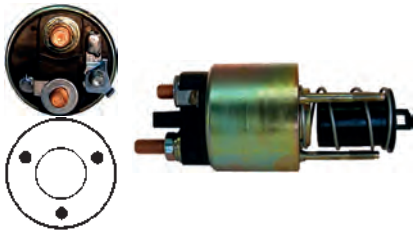
## 137790 Solenoid

**Replacing:** 85541020, 63601966, 63601963

**Servicing:** 63223435

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 23.25, **OD** 52.00, **OD/cover** 52.75, **Total length** 141.60, **Height/B+** 14.15, **Width/kl. 30h** 8.15, **Width/kl. 50** 9.30, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 4

*Cap: HC-CARGO 231880. w/ 30H terminal.*



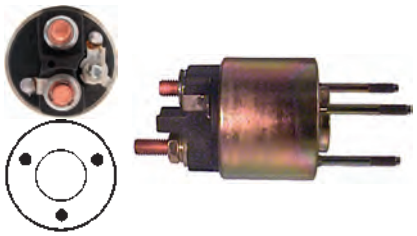
## 138444 Solenoid

**Replacing:** 85541670, 85541420, 85541003, 85511103, 63602106

**Servicing:** 63102008, 63103002, 63103003, 63103007, 63103008, 63111007, 63111008, 63111018, 63111023, 63111037, 63111043, 63112003

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.00, **OD** 53.90, **OD/cover** 46.90, **Total length** 118.85, **Height/B+** 16.40, **Width/kl. 50** 11.95, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 3

*Cap: HC-CARGO 139602. Moving contact: HC-CARGO 233969.*



## 138477 Solenoid

**Replacing:** 85541717, 63602502, 63602404, 63602109

**Servicing:** 63114008, 63114010, 63114014, 63280040

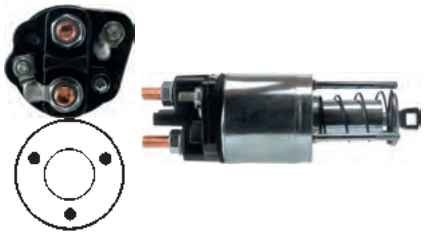
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.50, **OD/cover** 47.50, **Height/B+** M8, **Width/kl. 50** 10.00, **No./terminals** 3

*Cap: HC-CARGO 139602. Moving contact: HC-CARGO 137348.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



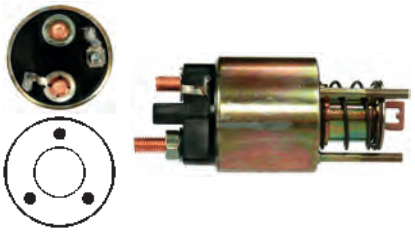
## 138522 Solenoid

**Replacing:** 85541060, 85540841

**Servicing:** 63223433

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M6, **ID/cover** 23.00, **OD** 51.65, **OD/cover** 51.35, **Total length** 149.20, **Height/B+** 18.10, **Width/kl. 15a** 7.85, **Width/kl. 50** 10.10, **Coil bolt** M8, **Coil bolt 2** 22.70, **No./terminals** 4

*Cap: HC-CARGO 231582. w/ 30H terminal.*

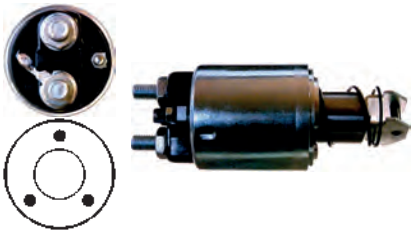


## 138531 Solenoid

**Servicing:** 63223039, 63293039

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.35, **OD** 54.00, **OD/cover** 47.40, **Total length** 124.55, **Height/B+** 20.90, **Width/kl. 50** 11.75, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 3

*Terminal: HC-CARGO 231863.*



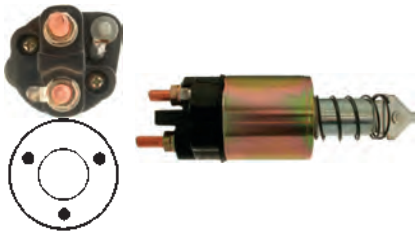
## 138753 Solenoid

**Replacing:** 85540031, 63633804

**Servicing:** 63216816, 63216818, 63216852, 63216876, 63216884, 63217138, 63217156, 63217163, 63217173, 63217180, 63217401, 63217402

12 **V**, **B+** M10, **Kl. 50** 6.30, **OD** 60.90, **Total length** 160.00, **Height/B+** 15.30, **Width/kl. 50** 6.30, **No./terminals** 3

*Cap: HC-CARGO 139141.*



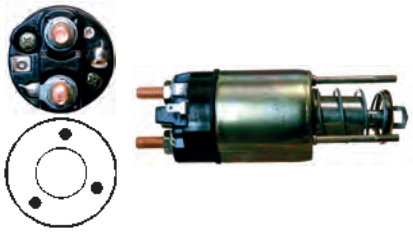
## 139104 Solenoid

**Replacing:** 85540922

**Servicing:** 63222038, 63222131, 63222134, 63222135, 63222136, 63222138, 63222204, 63222206

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.30, **OD** 51.60, **OD/cover** 50.65, **Total length** 144.00, **Height/B+** 25.25, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 20.35, **No./terminals** 3

*Cap: HC-CARGO 232417.*

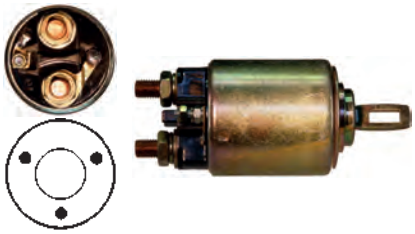


## 139220 Solenoid

**Replacing:** 85540501

**Servicing:** 63223432

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **ID/cover** 23.25, **OD** 52.00, **OD/cover** 53.00, **Total length** 145.50, **Height/B+** 21.10, **Width/kl. 15a** 11.00, **Width/kl. 50** 13.20, **Coil bolt** M8, **Coil bolt 2** 20.00, **No./terminals** 4



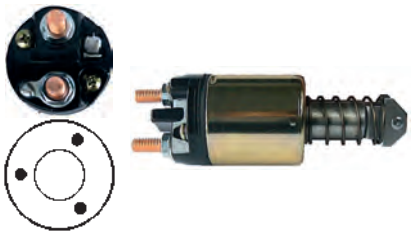
## 139849 Solenoid

**Replacing:** 63633604

**Servicing:** 63216814, 63217106, 63217108, 63217110, 63217112, 63217116, MT68P, MT71H

12 **V**, **B+** M10, **Kl. 50** M5, **ID/cover** 30.45, **OD** 61.00, **OD/cover** 53.25, **Total length** 142.85, **Height/B+** 20.35, **Width/kl. 50** 15.20, **Coil bolt** M10, **Coil bolt 2** 21.80, **No./terminals** 3

*Cap: HC-CARGO 139141.*



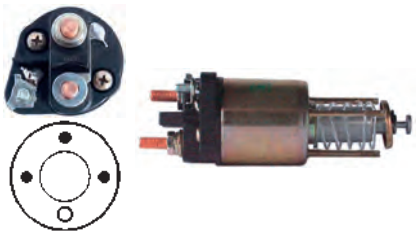
## 230325 Solenoid

**Replacing:** 85540041, 85530220, 63600904

**Servicing:** 63220932, 63221400, 63221430, 63221433, 63221531, 63221532, 63221534, 63221538, 63221539, 63221632, 63221636, 63221731

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.25, **OD** 50.00, **OD/cover** 50.00, **Total length** 126.70, **Height/B+** 21.30, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 20.55, **No./terminals** 3

*Cap: HC-CARGO 132229.*



## 230802 Solenoid

**Replacing:** 85541230

**Servicing:** 63101003

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.20, **OD** 52.45, **OD/cover** 52.15, **Total length** 147.60, **Height/B+** 26.45, **Width/kl. 50** 9.65, **Coil bolt** M8, **Coil bolt 2** 25.90, **No./terminals** 3

## 230805 Solenoid

**Replacing:** 85541210, 83227502

**Servicing:** 63102000, 63102000A, 63111001, 63191001, 63192000, 63223106

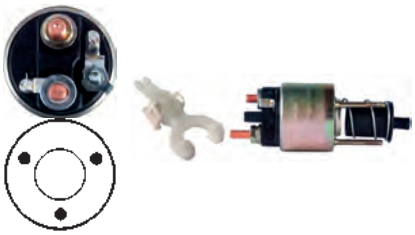
12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.70, **OD** 54.00, **OD/cover** 47.40, **Total length** 112.75, **Height/B+** 12.50, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3

*Cap: HC-CARGO 139602.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



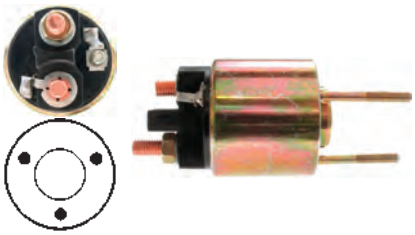
## 230807 5★ Solenoid

**Manufacturer:** Magneti Marelli

**Replacing:** 85541860

**Servicing:** 63102008, 63103002, 63103003, 63103007, 63103008, 63103022, 63103023, 63103025, 63222901, 63222908, 63223101

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.55, **OD** 54.00, **OD/cover** 47.50, **Total length** 123.00, **Height/B+** 23.35, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 9.50, **No./terminals** 3
*Cap: HC-CARGO 139602.*

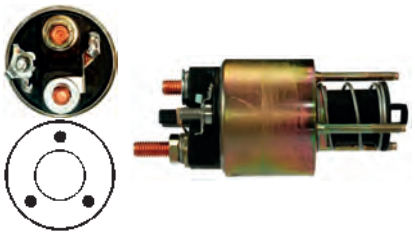


## 230808 Solenoid

**Replacing:** 85541740

**Servicing:** 63103026, 63111010, 63111016, 63111017, 63111036

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.70, **OD** 54.00, **OD/cover** 47.55, **Total length** 122.85, **Height/B+** 23.30, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 9.75, **No./terminals** 3
*Cap: HC-CARGO 139602.*

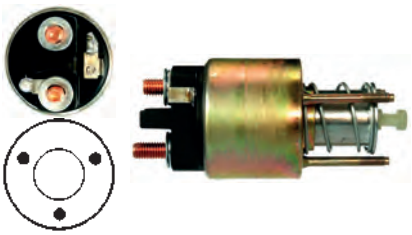


## 230809 Solenoid

**Replacing:** 85541560, 85541400, 85541260, 85541010

**Servicing:** 63101000, 63101002, 63101008, 63102003, 63102004, 63102007, 63103015, 63111005, 63222888, 63222889, 63222909, 63222936

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.75, **OD** 54.00, **OD/cover** 47.40, **Total length** 123.00, **Height/B+** 23.45, **Width/kl. 50** 9.95, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 3
*Cap: HC-CARGO 139601.*

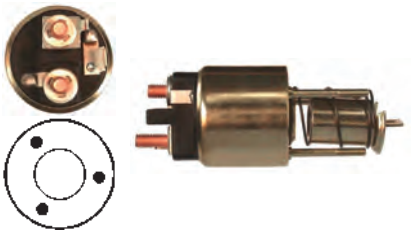


## 231479 Solenoid

**Replacing:** 85541350

**Servicing:** 63101007, 63191007, 63223085

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.65, **OD** 54.00, **OD/cover** 47.20, **Total length** 115.00, **Height/B+** 14.85, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 9.65, **No./terminals** 3
*Cap: HC-CARGO 233074.*

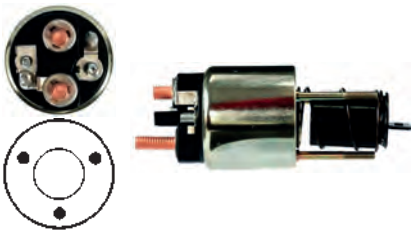


## 231806 Solenoid

**Replacing:** 85541111, 85541110

**Servicing:** 30000A, 30001A, 30002A, 30003A, 63223103, 63223104, 63223182, 63230001, 63230003, 63293103, 63293104

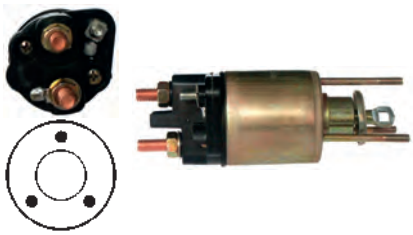
12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 25.30, **OD** 54.00, **OD/cover** 47.00, **Total length** 121.00, **Height/B+** 16.65, **Width/kl. 50** 17.25, **Coil bolt** M8, **Coil bolt 2** 10.65, **No./terminals** 3
*Cap: HC-CARGO 137346.*



## 231990 Solenoid

**Servicing:** 63111006, 63113001, 63193001, 63223537, 63280071, 63293537

12 **V**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 25.25, **OD** 54.00, **OD/cover** 47.85, **Total length** 126.45, **Height/B+** 22.25, **Width/kl. 30h** 7.80, **Width/kl. 50** 9.50, **Coil bolt** M8, **Coil bolt 2** 9.85, **No./terminals** 4
*Cap: HC-CARGO 233968. w/ 30H terminal.*

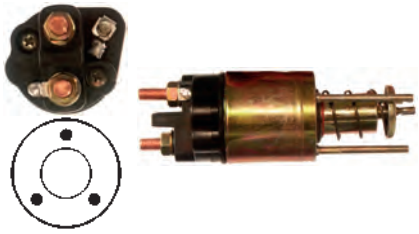


## 233815 Solenoid

**Replacing:** 85540921

**Servicing:** 63222836, 63222837, 63222897, 63223033

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.20, **OD** 52.25, **OD/cover** 50.45, **Total length** 148.30, **Height/B+** 18.10, **Width/kl. 50** 8.00, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3



## 234441# Solenoid

**Replacing:** 85541002

**Servicing:** 50246648, 63111000, 63223436, 63223531, 63223533, 63223539, 63223639

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.00, **OD** 51.90, **OD/cover** 50.85, **Total length** 152.80, **Height/B+** 18.30, **Width/kl. 50** 7.85, **Coil bolt** M8, **Coil bolt 2** 22.35, **No./terminals** 3

## 234733 Solenoid

**Replacing:** 85541770, 85541360

**Servicing:** 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101015, 63101018, 63101022, 63101023, 63102004, 63102007

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.00, **OD** 54.00, **OD/cover** 49.45, **Total length** 125.30, **Height/B+** 22.90, **Width/kl. 50** 9.30, **Coil bolt** M8, **Coil bolt 2** 10.10, **No./terminals** 3
*Cap: HC-CARGO 139601.*



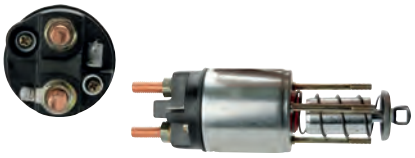
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 235383 Solenoid

**Servicing:** 63114017, 63222005

12 **V**, 18/42 **Amp**, **B+** M8, **Kl. 30h** M5, **Kl. 50** M6, **ID/cover** 39.90, **OD** 54.00, **OD/cover** 52.30, **Total length** 125.90, **Height/B+** 18.20, **Width/kl. 30h** 9.55, **Width/kl. 50** 9.15, **Coil bolt** M8, **Coil bolt 2** 9.55, **No./terminals** 4
*Cap: HC-CARGO 233968.*



## 235771 Solenoid

**Replacing:** 85540891

**Servicing:** 63223034

12 **V**, **B+** M8, **Kl. 50** 6.00, **OD** 52.90, **OD/cover** 49.70, **Total length** 136.50, **Height/B+** 19.25, **Coil bolt** M8, **Coil bolt 2** 19.25, **No./terminals** 3

## 238841 Solenoid

**Replacing:** 85541990

**Servicing:** 63101021, 63102022, 63103031, 63114012

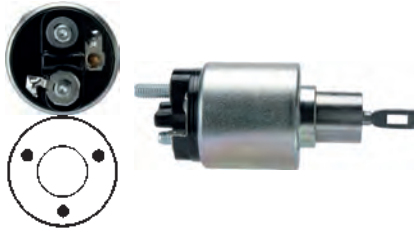
12 **V**, **B+** M8, **OD** 54.05, **Total length** 129.00, **Height/B+** 16.25, **Coil bolt** M8, **Coil bolt 2** 9.25, **No./terminals** 2

## 239075 Solenoid

**Replacing:** 85553402

**Servicing:** 63280091

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.25, **Total length** 106.20, **Height/B+** 18.30, **Width/kl. 50** 9.45, **Coil bolt** M8, **Coil bolt 2** 10.95, **No./terminals** 3



## 333147 5★ Solenoid

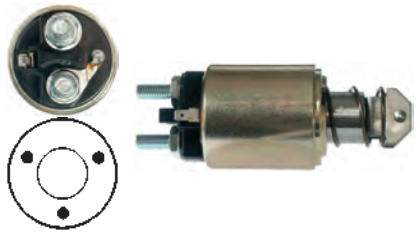
**Manufacturer:** Bosch

**Replacing:** 82368225

12 **V**, **B+** M8, **Kl. 30h** M8, **Kl. 50** 6.30, **ID/cover** 27.10, **OD** 56.35, **OD/cover** 49.35, **Total length** 140.80, **Height/B+** 20.00, **Width/kl. 30h** 14.45, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 12.60, **No./terminals** 3
*Cap: HC-CARGO 131315.*

**Alternative no.:** 131143, 333665

### 24 V

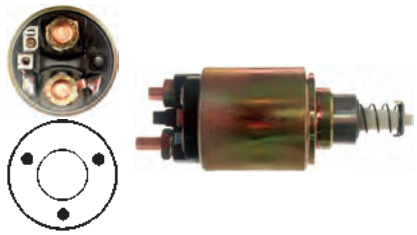


## 131115 Solenoid

**Replacing:** IE39AAA, 85540211, 85540111, 79036685, 63633933, 63633925, 63633902, 63633901

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216731, 63216733, 63216738, 63216740, 63216741, 63216747, 63216748, 63216763

24 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 30.00, **OD** 60.80, **OD/cover** 54.70, **Total length** 157.80, **Height/B+** 20.35, **Width/kl. 50** 14.00, **Coil bolt** M10, **Coil bolt 2** 20.35, **No./terminals** 3
*Cap: HC-CARGO 131329. Moving Contact: HC-CARGO 132248.*

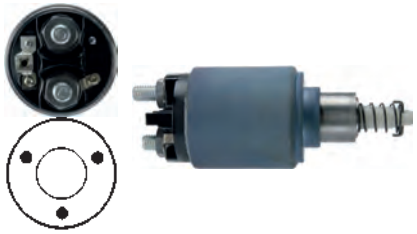


## 132254 Solenoid

**Replacing:** 79033664

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.80, **OD** 61.00, **OD/cover** 53.35, **Total length** 161.85, **Height/B+** 21.90, **Width/kl. 50** 3.70, **Coil bolt** M10, **Coil bolt 2** 15.75, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 333151 5★



## 333151 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 79033664

24 **V**, **B+** M10, **Kl. 50** 4.70, **ID/cover** 29.80, **OD** 61.00, **OD/cover** 53.35, **Total length** 161.85, **Height/B+** 21.90, **Width/kl. 50** 3.70, **Coil bolt** M10, **Coil bolt 2** 15.75, **No./terminals** 3
*Cap: HC-CARGO 131318.*

**Alternative no.:** 132254

## Solenoid Parts

### Solenoid Caps

## 131325 Solenoid Cap

**Servicing:** 63220701, 63220703, 63220721, 63220743, 63600400, E84-0.8/12V1, E84-0.8/12V3

**OD** 57.00, **No./terminals** 3
*HC-CARGO 130377.*

Pkg. 5

## 131329 Solenoid Cap

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216815, 63216825

**OD** 58.25, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 130829, 130830, 131112, 131115.*



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#Available while stock last, * Program development.

**132138**[#] Solenoid Cap

**Servicing:** 63221401, 63221431, 85530000, 85540301

**OD** 50.00, **No./terminals** 4
*HC-CARGO 132137.*

Pkg. 5

**132229** Solenoid Cap

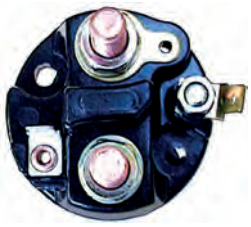
**Servicing:** 50246416, 50246532, 63220505, 63220536, 63220537, 63220538, 63220700, 63220701, 63220703, 63220704, 63220705, 63220706

**OD** 52.45, **No./terminals** 3
*HC-CARGO 131437, 132227, 132228, 133083, 133566, 139785, 139786, 230325.*

**132250** Solenoid Cap

**Servicing:** 63221800, 63221830, 63221834, 63221890, 63601600, 85540071

**OD** 49.80, **No./terminals** 3
*HC-CARGO 131589.*



**136055** Solenoid Cap

**Servicing:** 63221300, 63221330, 63221535, 63601007, 85540461

**OD** 50.50, **No./terminals** 4
*HC-CARGO 134862.*

Pkg. 5

**137346** Solenoid Cap

**Servicing:** 30000A, 30001A, 30002A, 30003A, 63223085, 63223103, 63223104, 63223182, 63223303, 63230001, 85541110, 85541111

**OD** 52.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 231806.*

Pkg. 5

**137347** Solenoid Cap

**Servicing:** 85540981

**OD** 52.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137190.*

**139141** Solenoid Cap

**Servicing:** 63216814, 63216876, 63216884, 63633604, 63633804, 85540031, MT68P, MT68PA, MT68PB, MT68R, MT68RA

**OD** 58.80, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138753, 139849.*

Pkg. 5

**139601** Solenoid Cap

**Servicing:** 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101018, 63101022, 63101023, 63102003, 63102004, 63102007

**OD** 52.20, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 230809, 234733.*

Pkg. 5

**139602** Solenoid Cap

**Servicing:** 63102000, 63102008, 63103002, 63103003, 63103007, 63103022, 63111001, 63111007, 63111008, 63111010, 63111016, 63111017

**OD** 51.75, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137191, 138444, 138477, 230805, 230807, 230808.*

**231386** Solenoid Cap

**Servicing:** 63223438, 85540901

**OD** 51.50, **No./terminals** 3

**231582** Solenoid Cap

**Servicing:** 63222035, 63223433, 85540711

**OD** 44.50, **No./terminals** 4
*w/ 30H terminal. HC-CARGO 136164, 231582.*

**231880** Solenoid Cap

**Servicing:** 63223435, 63223532, 636019063, 636019066, 85541020

**OD** 50.00, **No./terminals** 4
*w/ 30H terminal. HC-CARGO 137790.*

**231881** Solenoid Cap

**Servicing:** 50246648, 63111000, 63223436, 63223531, 63223639

**OD** 49.70, **No./terminals** 3

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**232417** Solenoid Cap

**Servicing:** 63222038, 63222131, 63222134, 63222135, 63222204, 63222206, 63222836, 63222837, 63222897, 85540922

**OD** 50.70, **No./terminals** 4

*HC-CARGO 139104.*

---

Pkg. 5

**233074** Solenoid Cap

**Servicing:** 63101007, 63191007, 85541350

**OD** 52.65, **No./terminals** 3,
**Bracket type** Crimp

*HC-CARGO 231479.*

---

**233968** Solenoid Cap

**Servicing:** 63111006, 63113001, 63114017, 63193001, 63222005, 63223537, 63293537

**OD** 52.30, **No./terminals** 4,
**Bracket type** Crimp

---

**234285**# Solenoid Cap

**Replacing:** 74883371

**Servicing:** 63291405

**OD** 49.65, **No./terminals** 3

*HC-CARGO 234284.*

---

## Moving Contacts

Pkg. 5

**132139** Moving Contact

**Servicing:** 85530000, 85540301

**Shaft measurement** 30.50,
**Thickness** 3.00, **Width** 30.00

---

Pkg. 5

**132246** Moving Contact

**Servicing:** 85530010, 85530220, 85530280, 85530290, 85530330

**Shaft measurement** 30.20,
**Thickness** 2.45, **Width** 32.00

**Alternative no.:** B132246

---

Pkg. 5

**132248** Moving Contact

**Servicing:** 63633801

**Shaft measurement** 37.40, **Thickness** 3.90

---

Pkg. 5

**132251** Moving Contact

**Servicing:** 63601700, 85540371

**Length** 28.30, **Shaft measurement** 26.48,
**Thickness** 1.98, **Width** 32.00

---

Pkg. 5

**137348** Moving Contact

**Servicing:** 063102018010, 063102021010, 63101000, 63101002, 63101008, 63101018, 63101022, 63101023, 63102000, 63102003, 63102004

**Length** 26.50, **Shaft measurement** 24.30,
**Thickness** 1.60, **Width** 12.50

---

Pkg. 5

**231383** Moving Contact

**Servicing:** 85540901

**Shaft measurement** 29.15,
**Thickness** 2.45, **Width** 38.00

---

Pkg. 5

**233969** Moving Contact

**Servicing:** 30000A, 30001A, 30002A, 30003A, 63101007, 63101021, 63103008, 63103019, 63103031, 63111001, 63111006, 63111007

**Shaft measurement** 24.90,
**Thickness** 1.55, **Width** 26.10

---



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All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

Pkg. 5

**234655** Contact Plate

**Thickness** 9.55, **Width** 24.00

Pkg. 100

**B132246** Moving Contact

**Replacing:** 132246

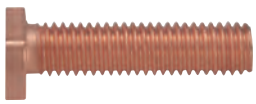
**Servicing:** 63220505

**Shaft measurement** 30.08, **Thickness** 2.46

**Alternative no.:** 132246

## Fixed Contacts

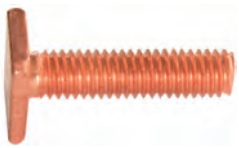
Pkg. 10



**232418** Fixed Contact

**Total length** 35.30, **Length/ rear collar** 31.82, **Thread length** 26.82, **Thread size** M8x1.25

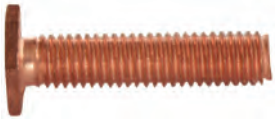
Pkg. 5



**234316** Fixed Contact

**Total length** 26.75, **Thread size** M6

Pkg. 5



**234317** Fixed Contact

**Total length** 37.00, **Thread length** 32.80, **Thread size** M8

## Various

Pkg. 10

**138953** Gasket

**ID** 50.35, **OD** 57.00, **Thickness** 1.70, **Material** Rubber

Pkg. 5

**231863** Terminal 50

**Servicing:** 63111000, 63223039, 63223639, 63293039

## Drives

**130417** Drive

**Replacing:** 74372530, 72372530, 70616002

**Servicing:** 63211665, 63211669, 63213127, 63214349, 63214371, 63214376, 63216225, 63216233, 63216325, 63216333, MT43PA, MT63BA

**ID** 14.70, **OD** 34.70, **OD/housing** 35.00, **Total length** 120.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

**130437** Drive

**Replacing:** 74899601

**Servicing:** 63223800

**ID** 16.00, **OD** 35.00, **OD/housing** 60.00, **Total length** 88.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

*Drive w/ 12 splines: HC-CARGO 134643.*

**130439** Drive

**Replacing:** 85540731, 74868891

**Servicing:** 63220409, 63220439, E76-0.5/12S-V9

**ID** 11.54, **OD** 25.20, **OD/housing** 40.35, **Total length** 62.45, **Splines A** 6, **No./teeth** 9, **Rotation** ACR

**130452** Drive

**Replacing:** 85541490, 85541479, 85541454

**Servicing:** 63226604, 63227025, 63227408, 63227409, 63227415, 63227417, 63227425, 63227468, 63227470, 63227474, 63227478, 63227483

**ID** 17.00, **OD** 39.90, **OD/housing** 60.00, **Total length** 73.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 130452Z

HC CARGO **Best Choice**

**130452Z** Drive

**Replacing:** 85541490, 85541479, 85541454

**ID** 17.00, **OD** 39.50, **OD/housing** 60.00, **Total length** 73.50, **Splines A** 12, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 130452

## 130735 Drive

**Replacing:** 74867931

**Servicing:** 63220400, 63220430

**ID** 12.00, **OD** 26.85, **OD/housing** 40.40, **Total length** 63.75, **Splines A** 2, **No./teeth** 8, **Rotation** CR

## 130737 Drive

**Replacing:** 85540811, 85540661, 85540311, 74981251, 74886731, 74881251, 74876851, 74861441, 74860391

**Servicing:** 63220700, 63220701, 63220703, 63220704, 63220705, 63220706, 63220721, 63220724, 63220732, 63220734, 63220735, 63220740

**ID** 11.70, **OD** 25.55, **OD/housing** 43.70, **Total length** 71.15, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 130738 Drive

**Replacing:** 85540271, 74874241, 74867401, 74866611

**Servicing:** 63222408, 63222430, 63222435, 63222438, 63222439, 63222506, 63222531, 63222532, 63222536, 63222730, 63222731, 63222736

**ID** 14.00, **OD** 29.15, **OD/housing** 46.20, **Total length** 68.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 130739 Drive

**Replacing:** 74871431, 74827301

**Servicing:** 63224170, 63224580, 63224600, 63224602, M125M3-Z9(3/12)

**ID** 17.00, **OD** 34.88, **OD/housing** 60.00, **Total length** 83.35, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 130740 Drive

**Replacing:** 74870111

**Servicing:** 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201100, 63201101, B76-0.5/12S

**ID** 11.50, **OD** 25.30, **OD/housing** 41.30, **Total length** 65.00, **Splines A** 2, **No./teeth** 9, **Rotation** ACR

## 130749 Drive

**Replacing:** 72138801

**Servicing:** 63216733, 63216816, 63216833, 63217117, 63217173, 63217182, 63217402, 63217404, MT67BA, MT68BA, MT68R, MT71LA, MT71RA

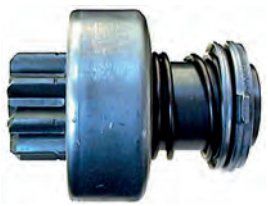
**ID** 14.35, **OD** 34.40, **OD/housing** 60.30, **Total length** 77.20, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 130946 Drive

**Replacing:** 72399501, 72378801

**Servicing:** 63216702, 63217107, 63217110, 63217116, MT67B

**ID** 14.30, **OD** 34.50, **OD/housing** 60.20, **Total length** 76.95, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



## 131109 Drive

**Replacing:** 72363402, 72139001

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216740, 63216800, 63216825, 63216826, 63216827, 63216852, 63216898, 63217118

**ID** 14.30, **OD** 34.55, **OD/housing** 59.70, **Total length** 77.20, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*Drive w/ lever: HC-CARGO 234921, 234922.*

## 131588 Drive

**Replacing:** 85540081

**Servicing:** 63221802, 63221830, 63221832

**ID** 11.68, **OD** 25.60, **OD/housing** 43.70, **Total length** 63.95, **Splines A** 6, **No./teeth** 9, **Rotation** CR

*Drive: HC-CARGO 132119.*

## 131715 Drive

**Replacing:** 85540601, 74889271, 74886971

**Servicing:** 63220506, 63220507, 63220536, 63220537, 63220538

**ID** 11.64, **OD** 25.60, **OD/housing** 43.80, **Total length** 68.56, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 131716 Drive

**Replacing:** 85540611, 85540491, 74887061, 74886131

**Servicing:** 63220901, 63220931, 63221338, 63221400, 63221401, 63221430, 63221431, 63221538, 63221637

**ID** 11.55, **OD** 29.30, **OD/housing** 46.40, **Total length** 71.00, **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 131728 Drive

**Replacing:** 85541541, 85541496

**Servicing:** M45G, 63227419, 63227508, 63227533, 63227543, 63227575, 63227586, 63227601, 63227604

**ID** 17.05, **OD** 39.85, **OD/housing** 59.95, **Total length** 100.20, **Splines A** 12, **No./teeth** 10, **Rotation** CR



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#Available while stock last, * Program development.

## 131729 Drive

**Replacing:** 85541538

**Servicing:** M45G, 63227412, 63227416, 63227475, 63227491

**ID** 17.05, **OD** 45.95, **OD/housing** 59.95, **Total length** 73.35, **Splines A** 12, **No./teeth** 13, **Rotation** CR

## 131747 Drive

**Replacing:** 74350433, 74350413

**ID** 14.50, **OD** 45.90, **Total length** 120.00, **Splines A** 3, **No./teeth** 13

## 132075 Drive

**Replacing:** 74866151

**Servicing:** 63222300

**ID** 14.00, **OD** 29.00, **OD/housing** 46.20, **Total length** 70.00, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 132119 Drive

**Replacing:** 74893901

**Servicing:** 50246532, 50246648, 63101003, 63221800, 63221830, 63221832, 63221834, 63221890, 63221892, 63222831, 63222836, 63222837

**ID** 11.50, **OD** 25.20, **OD/housing** 44.45, **Total length** 64.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*Drive w/ lever: HC-CARGO 134859, 230757.*

## 132186 Drive

**Replacing:** 85540651, 74885111

**Servicing:** 63221304, 63221305, 63221306, 63221307, 63221437, 63221535

**ID** 12.00, **OD** 25.50, **OD/housing** 45.00, **Total length** 69.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 132187 Drive

**Replacing:** 85540481, 74895431, 74888761

**Servicing:** 63223000, 63223203, 63223236, 63223237, 63223330, 63223332

**ID** 12.00, **OD** 25.00, **OD/housing** 46.25, **Total length** 65.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132188 Drive

**Replacing:** 85540521, 74991161, 74898071, 74891161

**Servicing:** 63221403, 63221404, 63221433, 63221434, 63221500, 63221530, 63221533, 63221539, 63221632, 63221636, 63221639, 63221731

**ID** 11.60, **OD** 29.15, **OD/housing** 46.00, **Total length** 65.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 132285 Drive

**Replacing:** 85541466, 85541462

**Servicing:** M127/2.8 KW, 63227500, 63227528, 63227553, 63227554, 63227569

**ID** 17.15, **OD** 39.00, **OD/housing** 60.00, **Total length** 70.40, **Splines A** 12, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

## 132293 Drive

**Replacing:** 72139004

**Servicing:** 63216815, 63216851, 63217403, MT68Q, MT68QA

**ID** 14.15, **OD** 32.10, **OD/housing** 60.00, **Total length** 77.60, **Splines A** 6, **No./teeth** 8, **Rotation** CR

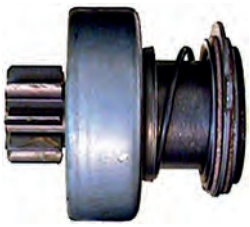
## 132586 Drive

**Replacing:** 85541544, 85541488

**Servicing:** M78, 63226601, 63226609, 63226626, 63226627, 63226678, 63226679, 63226680, 63226681, 63226689, 63226695, 63227004

**ID** 12.00, **OD** 26.70, **OD/housing** 46.25, **Total length** 48.20, **Splines A** 9, **No./teeth** 10, **Rotation** CR

**Best Choice**



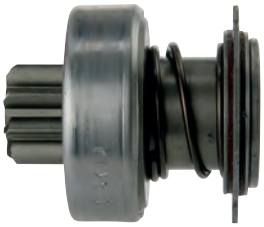
## 132818 Drive

**Replacing:** 85540451, 85540431, 74896591

**Servicing:** 50246416, 63222000, 63222004, 63222030, 63222034, 63222038, 63222130, 63222134, 63222135, 63222138

**ID** 11.60, **OD** 25.80, **OD/housing** 53.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 132818Z

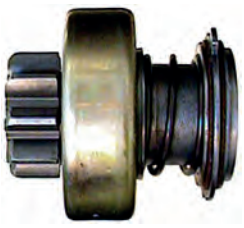


## 132818Z Drive

**Replacing:** 85540451, 85540431, 74896591

**ID** 12.00, **OD** 25.40, **OD/housing** 54.30, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132818



## 132819 Drive

**Replacing:** 85540141

**Servicing:** 63222001, 63222031, 63222039, 63222136

**ID** 12.00, **OD** 34.75, **OD/housing** 53.00, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 132820 Drive

**Replacing:** 85540441, 74894681

**Servicing:** 63221801, 63221831, 63222036, 63222131, 63222133, 63222206

**ID** 12.00, **OD** 27.50, **OD/housing** 53.25, **Total length** 61.90, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 132821 Drive

**Replacing:** 85540191, 85540151, 72159801

**Servicing:** 63216731, 63216741, 63216818, 63216831, 63216852, 63216896, 63217126, 63217148, 63217154, 63217156, 63217158, 63217186

**ID** 14.30, **OD** 34.30, **OD/housing** 60.00, **Total length** 77.50, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 132852 Drive

**Replacing:** 85541459

**Servicing:** 3M127, 63227501, 63227567

**ID** 17.00, **OD** 45.75, **OD/housing** 60.00, **Total length** 71.00, **Splines A** 12, **No./teeth** 13, **Rotation** CR

## 133591 Drive

**Replacing:** 85541389

**Servicing:** M79, 63226921, 63226935, 63226936, 63226939, 63226942, 63226949

**ID** 12.00, **OD** 26.75, **OD/housing** 46.00, **Total length** 50.60, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 133683 Drive

**Replacing:** 85541470

**Servicing:** M127, 63227564, 63227576

**ID** 14.20, **OD** 31.90, **OD/housing** 60.00, **Total length** 100.35, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 133841 Drive

**Replacing:** 99339837

**ID** 11.50, **OD** 25.00, **OD/housing** 44.00, **Total length** 65.30, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333855

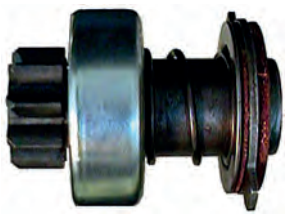
## 133985 Drive

**Replacing:** 72139003

**Servicing:** 63217121, MT71Z

**ID** 14.30, **OD** 34.00, **OD/housing** 60.25, **Total length** 77.25, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*w/ lever.*



## 134018 Drive

**Replacing:** 85540291, 74898111, 74891391

**Servicing:** 63221405, 63221435, 63221536

**ID** 11.65, **OD** 29.55, **OD/housing** 47.65, **Total length** 65.75, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 134364 Drive

**Replacing:** 85541040, 85540321

**Servicing:** 63223430, 63223431, 63223432, 63223436, 63223530, 63223531, 63223532, 63223533

**ID** 12.00, **OD** 29.00, **OD/housing** 46.25, **Total length** 52.35, **Splines A** 10, **No./teeth** 11, **Rotation** CR

## 134643 Drive

**Replacing:** 74703401

**Servicing:** 63223800, 63223802, 63223807, 63223830, 63223832

**ID** 16.00, **OD** 35.00, **OD/housing** 60.45, **Total length** 87.50, **Splines A** 6, **No./teeth** 9, **Rotation** CR

*Drive w/ 3 splines: HC-CARGO 130437.*

## 134859 Drive

**Replacing:** 85540411, 83221541, 83221531

**Servicing:** 63222831, 63222832, 63222833, 63222836, 63222837, 63222838, 63222897, 63223031, 63223032, 63223033, 63223034, 63223035

**ID** 11.55, **OD** 25.30, **OD/housing** 43.40, **Total length** 64.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*Drive: HC-CARGO 132119.*



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#Available while stock last, * Program development.

## 135117 Drive

**Replacing:** 85540681

**Servicing:** 63222035, 63222204, 63229035, 63292035

**ID** 12.00, **OD** 29.00, **OD/housing** 54.25, **Total length** 62.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 135463 Drive

**Replacing:** 85540861

**Servicing:** 63223434, 63223438, 63223494

**ID** 12.00, **OD** 25.60, **OD/housing** 47.65, **Total length** 52.55, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 135711 Drive

**Replacing:** 85541503, 85541303

**Servicing:** M79, 63226667, 63227043

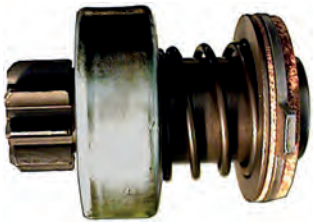
**ID** 12.00, **OD** 28.00, **OD/housing** 46.25, **Total length** 48.15, **Splines A** 9, **No./teeth** 8, **Rotation** CR

## 135717 Drive

**Replacing:** 85541780, 85540971

**Servicing:** 63101000, 63101002, 63101008, 63102003, 63102004, 63102007, 63102008, 63103002, 63103003, 63103008, 63103025, 63103026

**ID** 11.60, **OD** 25.80, **OD/housing** 46.00, **Total length** 64.00, **Splines A** 6, **No./teeth** 9, **Rotation** CR

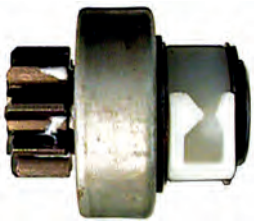


## 135762 Drive

**Replacing:** 85540121, 74891611

**Servicing:** 63221438, 63221630, 63221635

**ID** 12.00, **OD** 25.20, **OD/housing** 48.70, **Total length** 65.55, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 136257 Drive

**Replacing:** 85540881

**Servicing:** 63111000, 63223435, 63223533, 63223639

**ID** 12.00, **OD** 28.65, **OD/housing** 46.30, **Total length** 53.25, **Splines A** 10, **No./teeth** 9, **Rotation** CR

*Drive w/ lever: HC-CARGO 138167.*

## 136770 Drive

**Replacing:** 85541381

**Servicing:** M78R, 63226801

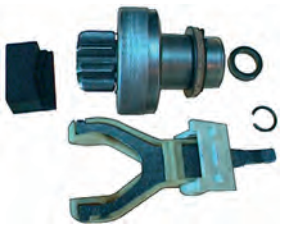
**ID** 12.00, **OD** 25.75, **OD/housing** 47.65, **Total length** 56.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 138167 Drive

**Servicing:** 63111000, 63223435, 63223639

**ID** 12.00, **OD** 28.70, **OD/housing** 47.00, **Total length** 52.55, **Splines A** 10, **No./teeth** 9, **Rotation** CR

*Drive only: HC-CARGO 136257.*



## 138533 Drive

**Servicing:** 63223039, 63293039

**ID** 11.60, **OD** 24.90, **OD/housing** 44.00, **Total length** 60.85, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333856

## 138752 Drive

**Replacing:** 72138802

**Servicing:** 63216814, 63216876, 63216884, 63217138, MT68P, MT68PA, MT68PB, MT71FA

**ID** 14.35, **OD** 40.65, **OD/housing** 60.30, **Total length** 77.30, **Splines A** 6, **No./teeth** 11, **Rotation** CR

*w/ lever.*

## 138793 Drive

**Servicing:** 63111005, 63111006, 63111007, 63223537, 63223730, 63293537

**ID** 11.85, **OD** 28.25, **OD/housing** 48.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

*Drive w/ lever: HC-CARGO 231216.*

## 138865 Drive

**Replacing:** 85541100

**Servicing:** 30000A, 30001A, 30002A, 30003A, 63223103, 63223104, 63223182, 63230001, 63230003, 63293103, 63293104

**ID** 12.00, **OD** 25.60, **OD/housing** 41.30, **Total length** 84.75, **Splines A** 4, **No./teeth** 9, **Rotation** ACR



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#Available while stock last, * Program development.

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## 138985 Drive

**Replacing:** 85541160

**Servicing:** 63114008, 63114010

**ID** 12.00, **OD** 29.00, **OD/housing** 53.70, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 138985Z

## 138985Z Drive

**Replacing:** 85541160

**ID** 12.00, **OD** 28.70, **OD/housing** 54.20, **Total length** 65.15, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 138985

## 139131 Drive

**Replacing:** 79035321, 72392104, 72139002, 72138902

**Servicing:** 63216738, 63216747, 63216748, 63216763, 63216859, 63216874, MT67DA, MT67DB, MT67FA, MT67FB, MT68MA, MT68MB

**ID** 14.35, **OD** 34.70, **OD/housing** 60.25, **Total length** 106.30, **Splines A** 6, **No./teeth** 9, **Rotation** CR

*w/ lever.*

## 139655 Drive

**Replacing:** 85541870, 85541280

**Servicing:** 063102018010, 063102021010, 63101015, 63101018, 63101021, 63101022, 63101023, 63102020, 63103007, 63103008, 63103015

**ID** 11.45, **OD** 23.50, **OD/housing** 44.00, **Total length** 64.00, **Splines A** 12, **No./teeth** 8, **Rotation** CR

*Drive w/ lever: HC-CARGO 230804.*

## 139710 Drive

**Replacing:** 54294817

**Servicing:** 63223538, 63293538

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

**Alternative no.:** 139710Z

## 139710Z Drive

**Replacing:** 54294817

**ID** 12.00, **OD** 54.00, **OD/housing** 48.20, **Total length** 51.35, **Splines A** 10, **No./teeth** 23, **Rotation** CR

**Alternative no.:** 139710

## 139848 Drive

**Replacing:** 72399502

**Servicing:** 63216814, 63217106, MT68P, MT71F

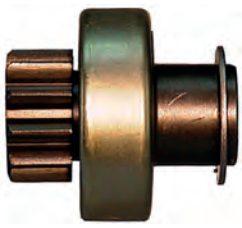
**ID** 14.45, **OD** 40.60, **OD/housing** 60.00, **Total length** 77.55, **Splines A** 12, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 139900 Drive

**Replacing:** 85540831

**Servicing:** 63223433

**ID** 12.00, **OD** 27.50, **OD/housing** 47.60, **Total length** 53.15, **Splines A** 10, **No./teeth** 10, **Rotation** CR

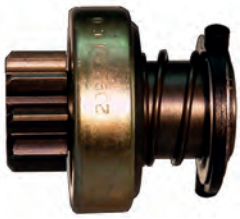


## 139901 Drive

**Replacing:** 85541690, 85541680, 85541250

**Servicing:** 63111008, 63111009, 63111018, 63111027, 63111037, 63112003, 63113003, 63113004, 63223536

**ID** 12.00, **OD** 29.75, **OD/housing** 47.55, **Total length** 50.20, **Splines A** 10, **No./teeth** 11, **Rotation** CR

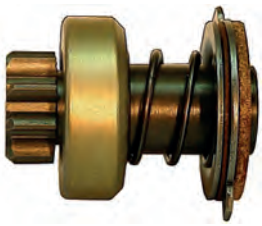


## 139902 Drive

**Replacing:** 85541700, 83226569

**Servicing:** 63114014

**ID** 12.00, **OD** 34.25, **OD/housing** 60.00, **Total length** 64.65, **Splines A** 10, **No./teeth** 9, **Rotation** CR



## 230025 Drive

**Replacing:** 85540401

**Servicing:** 63223209, 63223239

**ID** 12.00, **OD** 29.50, **OD/housing** 47.60, **Total length** 64.90, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 230757 Drive

**Replacing:** 85540381

**Servicing:** 50246532, 63101003, 63221800, 63221834, 63221890, 63221892, 63223031, 63223033

**ID** 11.60, **OD** 25.30, **OD/housing** 43.45, **Total length** 64.10, **Splines A** 12, **No./teeth** 9, **Rotation** CR

*Drive: HC-CARGO 132119.*



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#Available while stock last, * Program development.

## 231330 Drive

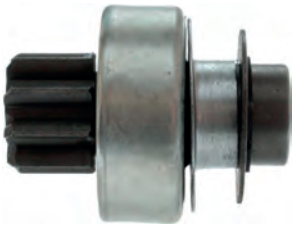
**ID** 14.00, **OD** 34.35, **OD/housing** 60.00, **Total length** 77.25, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 231414 Drive

**Replacing:** 85541220

**Servicing:** 63102000, 63102000A, 63103019, 63192000, 63223106

**ID** 11.65, **OD** 27.80, **OD/housing** 45.00, **Total length** 63.30, **Splines A** 12, **No./teeth** 8, **Rotation** CR



## 231478 Drive

**Replacing:** 85541390

**Servicing:** 63101007, 63191007

**ID** 11.00, **OD** 25.40, **OD/housing** 45.25, **Total length** 57.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 231899 Drive

**Replacing:** 85541300, 83226407

**Servicing:** 63113001, 63113002, 63193001

**ID** 12.00, **OD** 35.00, **OD/housing** 47.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 333868

## 233331 Drive

**Replacing:** 54294771

**Servicing:** 63111001, 63191001, 63223534

**ID** 12.00, **OD** 27.95, **OD/housing** 48.00, **Total length** 65.75, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 233945 Drive

**Replacing:** 85541180

**Servicing:** 63223304

**ID** 12.00, **OD** 26.45, **OD/housing** 45.00, **Total length** 80.00, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

## 233946 Drive

**Replacing:** 85541810, 85541750

**Servicing:** 63111010, 63111016, 63111017, 63111036

**ID** 12.00, **OD** 25.40, **OD/housing** 47.00, **Total length** 48.45, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333881

## 234921 Drive

**Replacing:** 72397101

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216801, 63216808, 63216826, 63216873, 63217104, 63217105, MT67A, MT67AA

**ID** 14.20, **OD** 34.50, **OD/housing** 60.20, **Total length** 77.15, **Splines A** 6, **No./teeth** 9

*w/ lever. Drive only: HC-CARGO 131109.*

## 234922 Drive

**Replacing:** 72139007

**Servicing:** 63216727, 63216740, 63216827, 63216898, 63217118, 63217119, 63217147, MT67AC, MT67CA, MT68AC, MT68LB, MT71DA, MT71U

**ID** 14.20, **OD** 34.45, **OD/housing** 60.20, **Total length** 77.35, **Splines A** 6, **No./teeth** 9

*w/ lever. Drive only: HC-CARGO 131109.*

## 235427 Drive

**Replacing:** 54295253

**Servicing:** 63226688, 63227041

**OD** 43.00, **OD/housing** 27.00, **Total length** 48.00, **Splines A** 9, **No./teeth** 10, **Rotation** ACR

## 235428 Drive

**Replacing:** 85541370

**Servicing:** 26950, 63226849, 63226950

**ID** 12.10, **OD** 36.00, **OD/housing** 86.00, **Total length** 52.00, **Splines A** 9, **No./teeth** 11, **Rotation** ACR

## 235663 Drive

**Servicing:** 63280040, 63280041

**ID** 28.50, **OD** 40.63, **OD/housing** 60.10, **Total length** 73.14, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333865



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#Available while stock last, * Program development.

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**238793** Drive

**Servicing:** 63114017, 63222005

**ID** 12.00, **OD** 28.77, **OD/housing** 59.19, **Total length** 64.01, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**239080** Drive

**Replacing:** 85553621

**Servicing:** 63280091

**ID** 11.00, **OD** 30.00, **OD/housing** 44.82, **Total length** 43.23, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**332145** Drive

**Servicing:** 063280071010

**ID** 12.00, **OD** 34.89, **OD/housing** 49.50, **Total length** 50.47, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**333125** Drive

**Replacing:** 74869711

**Servicing:** 63220107, 63220108, 63220137, 63220138

**ID** 11.55, **OD** 25.25, **OD/housing** 40.50, **Total length** 62.60, **Splines A** 2, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**333855** Drive

**Replacing:** 99339837

**ID** 11.50, **OD** 25.00, **OD/housing** 39.00, **Total length** 65.30, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 133841

**333865** Drive

**ID** 12.00, **OD** 40.63, **OD/housing** 60.10, **Total length** 73.14, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 235663

**333868** Drive

**Replacing:** 85541300

**Servicing:** 63113001, 63193001

**ID** 12.00, **OD** 35.00, **OD/housing** 48.00, **Total length** 50.50, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 231899

**333881** Drive

**Replacing:** 85541810, 85541750

**Servicing:** 63111010, 63111016, 63111017, 63111036

**ID** 12.00, **OD** 25.40, **OD/housing** 47.00, **Total length** 48.45, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 233946

**333991** Drive

**Servicing:** 63217180, 63217425, MT74AA

**ID** 14.30, **OD** 34.60, **OD/housing** 60.20, **Total length** 77.75, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

## Drive Parts

### Caps

Pkg. 25

**134203** Dp Cap

**ID** 48.05, **OD** 49.70

Pkg. 10

**230082** Dp Cap

**ID** 61.00, **OD** 62.75

Pkg. 10

**237957** Dp Cap

**Servicing:** 85541300

**ID** 48.00, **OD** 49.75



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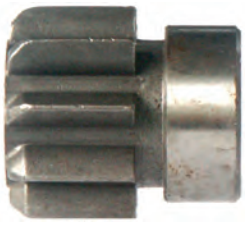
## Gears

Pkg. 10

**134196** Dp Gear

**ID** 11.60, **OD** 25.30, **Height** 27.30, **No./teeth** 9

Pkg. 10



**134197**# Dp Gear

**ID** 11.65, **OD** 25.30, **Height** 27.85, **No./teeth** 9

## Rollers

Pkg. 100

**134217** Dp Rollers

**OD** 8.00, **Length** 18.00

Pkg. 500

**134243** Dp Rollers

**OD** 6.00, **Length** 8.55

Pkg. 500

**134246** Dp Rollers

**OD** 8.00, **Length** 13.90

Pkg. 100

**134821** Dp Rollers

**OD** 4.00, **Length** 7.95

Pkg. 100

**135189** Dp Rollers

**OD** 5.55, **Length** 10.75

Pkg. 100

**230480** Dp Rollers

**OD** 7.90, **Length** 13.80

## Springs

Pkg. 500

**134221** Dp Springs

**OD** 5.85, **Length** 9.10

Pkg. 100

**134822** Dp Springs

**OD** 3.20, **Length** 9.50

Pkg. 100

**135190** Dp Springs

**OD** 4.00, **Length** 10.40

## Washers

Pkg. 5

**230286**# DP Washer

**ID** 30.65, **OD** 56.35, **Thickness** 5.90, **Material** Plastic

## Dp Caps

Pkg. 10

**231609** Dp Cap

**ID** 59.31, **OD** 61.15

## Planet Gears

**135712** Planet Gear

**Replacing:** 85540822, 85540821

**Servicing:** 63111000, 63223430, 63223431, 63223432, 63223433, 63223434, 63223435, 63223436, 63223438, 63223494, 63223530, 63223531

**Shaft dia./middle** 11.90, **Total length** 127.25, **No./splines** 10

**138791**# Planet Gear

**Replacing:** 85541290, 85541240

**Servicing:** 63111005, 63111006, 63111007, 63111008, 63111009, 63111018, 63111023, 63111027, 63111037, 63111043, 63112003, 63113001

**Shaft dia./middle** 11.97, **Total length** 120.35, **No./splines** 10, **Rotation** CR

## Gear Parts

### Gear Shafts

**230823** Gear Shaft

**Servicing:** 63114008, 63114010, 63114014, 63114017, 63222005

**OD/shaft** 15.00, **Total length** 120.00, **No./splines** 10

**235730** Gear Shaft

**Servicing:** 63280040, 63280041

**OD/shaft** 11.95, **Total length** 142.90, **No./splines** 10

### Outer Gear

**139628** Gear Housing

**Replacing:** 83227000

**Servicing:** 63114014, 63114017, 63222005

**OD** 90.00

Pkg. 5

**232912** Outer Gear

**Servicing:** 63223538

**ID** 51.50, **OD** 61.80, **Height** 25.35, **No./teeth** 59

**235308** Gear Cover

**Servicing:** 63111001, 63111005, 63111006, 63111007, 63111008, 63111018, 63111037, 63112003, 63113001, 63113002, 63191001, 63193001

**ID** 67.09, **OD** 70.34

### Gear Wheels

Pkg. 3

**230285** Gear Wheel

**Servicing:** 85540822

**ID** 6.00, **OD** 19.00, **Height** 8.40, **No./teeth** 13

Pkg. 10

**233124** Gear Wheel

**Servicing:** 63223538

**ID** 9.97, **OD** 21.42, **Height** 5.58, **No./teeth** 22

*Bushing: 6.00x9.97x7.90 mm.*

**233462** Gear Wheel

**Servicing:** 63111000, 63223431, 63223432, 63223435, 63223436, 63223438, 63223530, 63223531, 63223532, 63223639

**ID** 46.70, **OD** 58.70, **Height** 13.85, **No./teeth** 37

### Gear Plates

**139650**# Gear Plate

**Servicing:** 85540821

**ID** 19.20, **OD** 55.60

Pkg. 5

**234571** Gear Plate

**Servicing:** 63111001, 63111005, 63111006, 63111007, 63111008, 63111010, 63111016, 63111018, 63111036, 63111037, 63112003, 63113001

**ID** 19.00, **OD** 66.75, **Thickness** 5.25, **Gasket** w/o

## Levers

**131784** Lever

**Replacing:** 74881280

**Servicing:** 63221300, 63221302, 63221303, 63221304, 63221305, 63221306, 63221307, 63221308, 63221309, 63221330, 63221332, 63221333

**Dist.** 45.60, **ID** 7.10, **Length** 98.00



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#Available while stock last, * Program development.

**132202** Lever

**Replacing:** 74869941

**Servicing:** 63201000, 63201002, 63201004, 63201005, 63201100, 63270201, 63270202, 63270205, 63270206, 63270221, 63270223, 63270224

**Dist.** 41.35, **ID** 8.00, **Length** 124.70

Pkg. 5

**135335** Lever

**Servicing:** 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216815, 63216825, 63216826

**Dist.** 45.50, **ID** 8.00, **Length** 110.30

**139133** Lever

**Replacing:** 74886560

**Servicing:** 63220506, 63220535, 63220536, 63220537, 63220538

**Dist.** 41.50, **ID** 7.15, **Length** 89.60

## Lever Parts

### Various

Pkg. 5

**230420** Lever Support

**Servicing:** 85541160

**ID** 37.55, **OD** 45.90, **Height** 3.45

## Clutches

**130328** Clutch

**Replacing:** 74350265, 72294601

**Servicing:** 63211627, 63211665, 63211669, 63213127, 63213853, 63213855, 63214349, 63214371, 63214376, 63216225, 63216233, 63216325

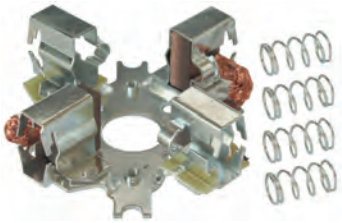
## Brush Gears

**131184** Brush Gear

**Replacing:** 79026095

**OD** 86.25

*Neg. brushes. Brush set: HC-CARGO BSX974.*

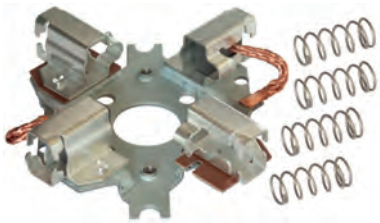


**132303** Brush Gear

**Replacing:** 79033957

12 **V**, **OD** 86.25

*Neg. brushes. Brush set: HC-CARGO BSX134-1444.*



**132304** Brush Gear

**Replacing:** 79044568

**OD** 86.70

*Neg. brushes. Brush set: HC-CARGO BSX1164.*

**134041** Brush Gear

**Replacing:** 72164701

**Servicing:** 63216817, 63216818, 63216831, 63216852, 63216884, 63216896, MT68AD, MT68LC, MT68PB, MT68RA, MT68T

**OD** 93.85

*Brush set: HC-CARGO MASX15-164. Spring: HC-CARGO 234678.*

**134291** 5★ Brush Gear

**Manufacturer:** Magneti Marelli

**Replacing:** 74891101, 74883521, 74881151

**Servicing:** 63221300, 63221302, 63221303, 63221330, 63221332, 63221333, 63221334, 63221335, 63221338, 63221400, 63221401, 63221403

**OD** 89.75

*Neg. brushes. Brush set: HC-CARGO JSX21-224.*

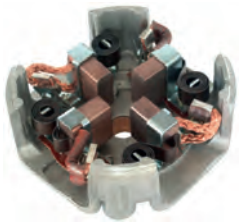
**134670** Brush Gear

**Replacing:** 72165001

**Servicing:** 63216731, 63216741, MT67AA, MT67AD, MT67CB

**OD** 91.55

*Neg. brushes. Brush set: HC-CARGO MASX21-224.*



**134681** Brush Gear

**Replacing:** 72366601

**Servicing:** 63216800, 63216808, 63216814, 63216815, 63216816, 63216825, 63216826, 63216827, 63216833, 63216851, 63216852, 63216859

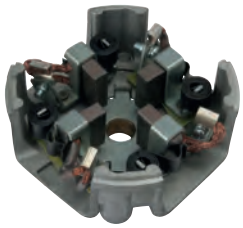
**OD** 48.50

**135242** 5★ Brush Gear
**Manufacturer:** Magneti Marelli
**Replacing:** 72164102
**Servicing:** 63217226, MT72AB
24 **V**, **OD** 92.30
*Neg. brushes. Brush set: HC-CARGO MASX27-284.*

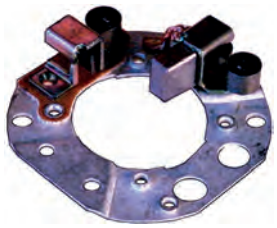
**135565** Brush Gear
**Replacing:** 83227260, 83227226, 83227131, 83226683, 83222681, 83220461
**Servicing:** 30002A, 30003A, 63111000, 63111001, 63111005, 63111006, 63111007, 63111008, 63111009, 63111010, 63111016, 63111017
**OD** 61.25
*Brush set: HC-CARGO JSX33-344. Spring: HC-CARGO 138639.*

**135604** Brush Gear
**Replacing:** 72164101, 135604
**Servicing:** 63217126, 63217148, 63217154, 63217156, 63217158, 63217163, 63217180, 63217186, 63217188, 63217407, 63217408, 63217410
12 **V**, **OD** 90.00
*Neg. brushes. Brush set: HC-CARGO MASX25-264.*

**136204** Brush Gear
**Replacing:** 83226216, 83225359, 83224461, 83221241
**Servicing:** 30002A, 30003A, 50246532, 50246648, 63101000, 63102000, 63102000A, 63102003, 63102004, 63102007, 63102008, 63103002
**OD** 67.00
*Neg. brushes. Brush set: HC-CARGO JSX35-374.*



**136734** Brush Gear
**Replacing:** 72362601
**Servicing:** 63216701, 63216702, 63216703, 63216704, 63216706, 63216707, 63216710, 63216725, 63216726, 63216727, 63216733, 63216738
24 **V**



**138534** Brush Gear
**Replacing:** 83225326
**Servicing:** 30000A, 30001A, 63101000, 63101002, 63101008, 63201008, 63222888, 63222889, 63222897, 63222905, 63222908, 63222909
12 **V**, **OD** 67.20
*Neg. brushes. Brush set: HC-CARGO JSX38-412.*

**138535** Brush Gear
**Replacing:** 83225886
**Servicing:** 30000A, 30001A, 63103019, 63103022, 63103023, 63103024, 63103025, 63103026, 63223039, 63223104, 63223304, 63230001
12 **V**, **OD** 67.15
*Neg. brushes. Brush set: HC-CARGO JSX43-45-574.*

**138537** Brush Gear
**Replacing:** 85540691, 85540341
**Servicing:** 63114008, 63114010, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222035, 63222036, 63222038
12 **V**, **OD** 74.00
*2.2 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.*

**138538** Brush Gear
**Replacing:** 85540351
**Servicing:** 63101003, 63221800, 63221830, 63221832, 63221834, 63221890, 63221892
12 **V**, **OD** 73.65
*Neg. brushes. Brush set: HC-CARGO JSX21-22.*

**139627** Brush Gear
**Replacing:** 83226336
**Servicing:** 63114014, 63114017, 63222005, 63280040
12 **V**, **OD** 69.50
*2.6 kW. Neg. brushes. Brush set: HC-CARGO JSX31-32.*

## Brush Gear Parts

### Brush Holders

Pkg. 10

**134115** Brush Gear
**Replacing:** 74893830
**Servicing:** 63101003, 63221800, 63221830, 63221831, 63221832, 63221834, 63221890, 63221892

Pkg. 10

**134798** Brush Gear
**Replacing:** 74894441
**Servicing:** 50246416, 63114008, 63114010, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222035, 63222036



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#Available while stock last, * Program development.

## Brush Springs

Pkg. 10

### 135768 Brush Spring

**Replacing:** 72364310

**Servicing:** 63201004, 63216741, 63217126, 63217147, 63217201, 63217225, 63217226, MT67CB, MT71A, MT71AA, MT71AB, MT71D, MT71DA

**OD** 16.15, **Length** 29.35

Pkg. 10

### 135769 Brush Spring

**Replacing:** 74703210

**Servicing:** 63201000, 63201004, 63201005, 63201100, 63220536, 63220537, 63220701, 63220703, 63220704, 63220706, 63220721, 63220724

**OD** 14.00, **Length** 29.30

Pkg. 10

### 135770 Brush Spring

**Replacing:** 72363110

**Servicing:** 63216725, 63216726, 63216727, 63216731, 63216740, 63216747, 63216748, 63216800, 63216814, 63216815, 63216825, 63216826

**OD** 15.65, **Length** 30.75

Pkg. 10

### 138639 Brush Spring

**Replacing:** 83221220, 138639

**Servicing:** 30000A, 30001A, 30002A, 30003A, 50246532, 50246648, 63101002, 63101008, 63102000, 63102000A, 63102003, 63102007

**OD** 11.90, **Length** 22.30

Pkg. 10

### 234678 Brush Spring

**Servicing:** 63216731, 63216741, 63216831, 63216884, MT67AA, MT67AD, MT67CB, MT68AD, MT68LC, MT68PB, MT68RA

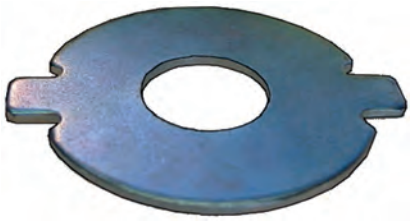
**OD** 15.50, **Length** 28.10

## Various

Pkg. 25

### 133967 Insulator

Pkg. 5



### 139838# Washer

**Servicing:** 63217105, 63217118

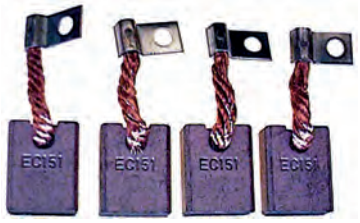
**ID** 16.00, **OD** 42.75, **Thickness** 1.00, **Material** Steel

## Brush Sets

### 141094 Brush Set

**Servicing:** E80SL, 63101007, 63191007

12 **V**, **Length** 17.00, **Lead length** 27.00, **Height** 8.00, **Thickness** 7.00




### JSX134 Brush Set

**Replacing:** 74874701, 74866041

**Servicing:** E100

12 **V**, **Length** 20.00, **Lead length** 33.50, **Height** 16.00, **Thickness** 7.00

**Alternative no.:** JS13

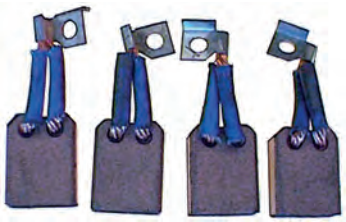
### JSX162 Brush Set

**Replacing:** 74868181, 74861781

**Servicing:** E84, 63220700, 63220732, 63220735, 63220740, 63220741, 63220743, 63220744, 63220746, 63220830, 63220833, 63220834

12 **V**, **Length** 19.00, **Lead length** 31.00, **Height** 17.00, **Thickness** 8.00

**Alternative no.:** JS16



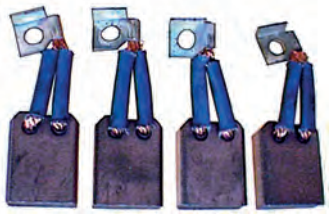
### JSX184 Brush Set

**Replacing:** 74838701

**Servicing:** 63224580

24 **V**, **Length** 28.00, **Lead length** 36.00, **Height** 22.00, **Thickness** 10.00

*M125-4/24.*



### JSX194 Brush Set

**Replacing:** 74846001

**Servicing:** 63224600, 63224602, 63224691, M125M3-Z9(3/12)

12 **V**, **Length** 28.00, **Lead length** 27.49, **Height** 22.00, **Thickness** 10.00

*M125-3/12.*



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#Available while stock last, * Program development.

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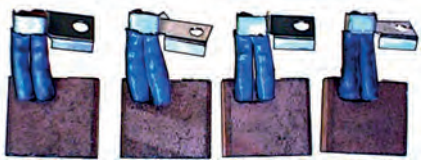


## JSX204 Brush Set

**Replacing:** 74734101

**Servicing:** 63224301, 63224302, 63224398, 63225301, 63225303, 63225391, 63225398, 63226300, 63226302, 63226391

24 **V**, **Length** 30.00, **Lead length** 34.50, **Height** 35.00, **Thickness** 11.50

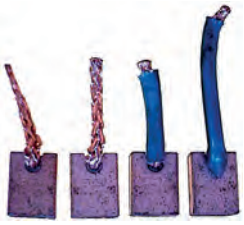
*M130-7/24.*

## JSX21-22 Brush Set

**Replacing:** 74881121, 74880941

**Servicing:** E95, 63221633

12 **V**, **Length** 17.50, **Lead length** 186.00, **Lead length 2** 41.00, **Height** 13.00, **Thickness** 6.00



## JSX23-24-28 Brush Set

**Replacing:** 74891260, 74887911, 74887901

**Servicing:** E100, 63223203, 63223230, 63223235, 63223236, 63223237, 63223330, 63223332

12 **V**, **Length** 20.00, **Lead length** 57.50, **Lead length 2** 36.00, **Height** 15.50, **Thickness** 7.00

## JSX29-302 Brush Set

**Replacing:** 74893811, 74893801

**Servicing:** E95C

12 **V**, **Length** 17.50, **Lead length** 48.82, **Height** 13.00, **Thickness** 6.00

## JSX31-32 Brush Set

**Replacing:** 7489439/1, 7489438/1

**Servicing:** E95R, 50246416, 63114008, 63114010, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222035

12 **V**, **Length** 18.00, **Lead length** 39.63, **Lead length 2** 138.14, **Height** 19.00, **Thickness** 8.00

## JSX33-344 Brush Set

**Replacing:** 83227258, 83227257

**Servicing:** E70R, 63111000, 63111001, 63111005, 63111006, 63111007, 63111008, 63111010, 63111016, 63111017, 63111018, 63111023

12 **V**, **Length** 16.34, **Lead length** 34.00, **Height** 14.85, **Thickness** 5.90

**Alternative no.:** JS33, JS34

## JSX35-364 Brush Set

**Replacing:** 93221201, 83221191

**Servicing:** E80, 50246532, 50246648, 63223031, 63223033, 63223034, 63223035, 63223304

12 **V**, **Length** 17.50, **Lead length** 34.00, **Lead length 2** 28.50, **Height** 13.00, **Thickness** 7.00

## JSX35-374 Brush Set

**Replacing:** 83221681

**Servicing:** E80E, 63222831, 63222836, 63222837, 63223034

12 **V**, **Length** 17.50, **Lead length** 116.00, **Lead length 2** 28.00, **Height** 13.00, **Thickness** 7.00

## JSX38-39-403 Brush Set

**Replacing:** 83227491, 83227490, 83224481

**Servicing:** E80E, 30002A, 30003A, 63101000, 63102000, 63102000A, 63102003, 63102004, 63102007, 63102008, 63103002, 63192000

12 **V**, **Length** 17.50, **Lead length** 37.00, **Lead length 2** 29.00/26.00, **Height** 13.00, **Thickness** 7.00

## JSX38-412 Brush Set

**Replacing:** 83225266

**Servicing:** E80E, 30000A, 30001A, 63101002, 63101008, 63222888, 63222889, 63222897, 63222905, 63222908, 63222909, 63222936

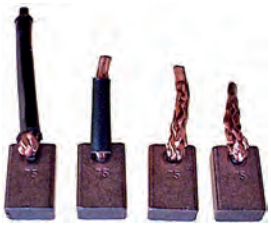
12 **V**, **Length** 17.50, **Lead length** 28.00, **Height** 13.00, **Thickness** 7.00

## JSX40-46-474 Brush Set

**Replacing:** 83226189, 83226148

**Servicing:** E80E, 63103003, 63103007, 63103008, 63103015, 63103019, 63103022, 63103031, 63223182

12 **V**, **Length** 17.50, **Lead length** 66.00, **Lead length 2** 28.00, **Height** 13.00, **Thickness** 7.00



## JSX43-45-444 Brush Set

**Replacing:** 83225824, 83225823, 83225822

**Servicing:** E80E, 63223039, 63293039

12 **V**, **Length** 19.50, **Lead length** 65.00, **Lead length 2** 28.00, **Height** 13.00, **Thickness** 7.00



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#Available while stock last, * Program development.

## JSX51-52-593 Brush Set

**Replacing:** 83227370, 83227364

**Servicing:** E80F, 063102018010, 063102021010, 63102020, 63102022, 63103024

12 **V**, **Length** 19.50, **Lead length** 36.00, **Lead length 2** 29.00, **Height** 8.00, **Thickness** 7.00

## JSX51-52-634 Brush Set

**Replacing:** 83227357

**Servicing:** E80F

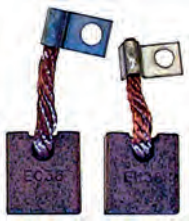
12 **V**, **Length** 19.50, **Lead length** 81.00, **Lead length 2** 28.00, **Height** 8.00, **Thickness** 7.00

## JSX51-522 Brush Set

**Replacing:** 83227362

**Servicing:** E80F, 63101015, 63101018, 63101021, 63101022, 63101023

12 **V**, **Length** 19.50, **Lead length** 26.00, **Height** 8.00, **Thickness** 7.00



## JSX52 Brush Set

**Replacing:** 83226920, 83226919, 74868171

**Servicing:** 63201000, 63201001, 63201002, 63201003, 63201004, 63201005, 63201101, 63220107, 63220108, 63220137, 63220138, 63220232

12 **V**, **Length** 17.00, **Lead length** 24.50, **Height** 16.00, **Thickness** 6.00

**Alternative no.:** JS5

## JSX53-54 Brush Set

**Servicing:** E95RL, 63114014, 63114017, 63222005

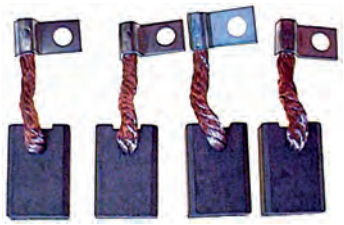
12 **V**, **Length** 20.00, **Lead length** 33.65, **Lead length 2** 162.46, **Height** 19.00, **Thickness** 8.00

## JSX61-62-634 Brush Set

**Replacing:** 83227652, 83227584, 83227383

**Servicing:** D80F

12 **V**, **Length** 19.50, **Lead length** 81.00, **Lead length 2** 28.00, **Height** 8.00, **Thickness** 7.00



## JSX94 Brush Set

**Replacing:** 74702610

**Servicing:** E115-3/24, 63223800, 63223802, 63223807, 63223830, 63223832

24 **V**, **Length** 20.00, **Lead length** 32.61, **Height** 14.00, **Thickness** 6.50

## LASX314 Brush Set

**Replacing:** 85541476

**Servicing:** M50, 63227569

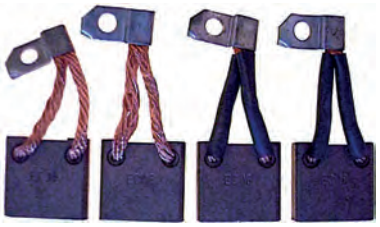
12 **V**, **Length** 22.20, **Lead length** 63.00, **Height** 19.00, **Thickness** 7.90

## LASX364 Brush Set

**Replacing:** 85541333

**Servicing:** M50, M127, 63227570, 63227592, 63227606

12 **V**, **Length** 26.00, **Lead length** 67.50, **Height** 20.00, **Thickness** 9.00

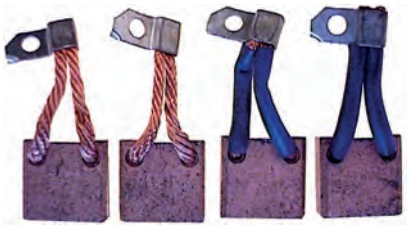


## MASX13-144 Brush Set

**Replacing:** 72363202, 72363201/02, 72363201

**Servicing:** MT67, 63216701, 63216702, 63216703, 63216704, 63216706, 63216707, 63216710, 63216725, 63216726, 63216727, 63216733

24 **V**, **Length** 23.00, **Lead length** 44.00, **Height** 25.00, **Thickness** 8.00



## MASX15-164 Brush Set

**Replacing:** 72363207, 72363205/06, 72363203/04

**Servicing:** MT68, 63216800, 63216814, 63216815, 63216825, 63216826, 63216827, 63216851, 63216874, 63216876, 63216884, MT62BA, MT68A

12 **V**, **Length** 23.00, **Lead length** 42.00, **Height** 25.00, **Thickness** 10.00

## MASX17-184 Brush Set

**Replacing:** 72383701/02

**Servicing:** MT71, MT71Z

12 **V**, **Length** 23.00, **Lead length** 42.00, **Height** 16.00, **Thickness** 9.00



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#Available while stock last, * Program development.

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## MASX19-204 Brush Set

**Replacing:** 72383705/06, 72383703/04

**Servicing:** MT72, 63217201, 63217225, MT72A, MT72AA

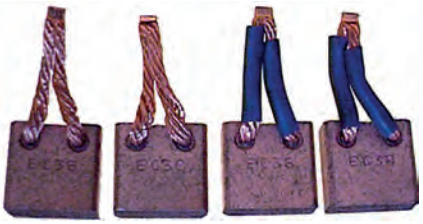
24 **V**, **Length** 23.00, **Lead length** 43.00, **Height** 16.00, **Thickness** 9.00

## MASX21-224 Brush Set

**Replacing:** 72162402, 72162401

**Servicing:** MT67, 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, MT67A, MT67AA, MT67AB, MT67AD, MT67CA, MT67CB

**Length** 23.00, **Lead length** 36.00, **Height** 25.00, **Thickness** 8.00

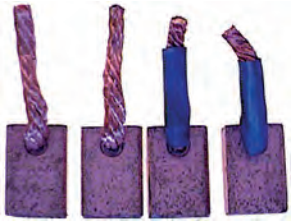


## MASX23-244 Brush Set

**Replacing:** 72162404, 72162403

**Servicing:** MT68, 63216815, 63216817, 63216818, 63216831, 63216851, 63216852, 63216861, 63216876, 63216884, 63216896, MT68AD

12 **V**, **Length** 23.00, **Lead length** 35.00, **Height** 25.00, **Thickness** 10.00



## MASX25-264 Brush Set

**Replacing:** 72161302, 72161301

**Servicing:** MT71, 63217126, 63217147, MT71A, MT71AA, MT71AB, MT71D, MT71DA, MT71DB, MT71E, MT71T, MT71TA, MT71Z, MT74L

12 **V**, **Length** 23.00, **Lead length** 37.00, **Height** 16.00, **Thickness** 9.00

## MASX27-284 Brush Set

**Replacing:** 72161304, 72161303

**Servicing:** MT72, 63217201, 63217225, 63217226, MT72A, MT72AA, MT72AB

24 **V**, **Length** 23.00, **Lead length** 36.50, **Height** 16.00, **Thickness** 9.00

# Brushes

Pkg. 100

## JS13 Brush

**Replacing:** JSX134

12 **V**, **Length** 19.80, **Lead length** 32.20, **Height** 15.88, **Thickness** 6.93

**Alternative no.:** JSX134

Pkg. 100

## JS13/0 Brush

**Replacing:** JSX134

12 **V**, **Length** 19.74, **Lead length** 32.25, **Height** 15.85, **Thickness** 6.95

Pkg. 100

## JS16 Brush

**Replacing:** JSX162

12 **V**, **Length** 18.75, **Lead length** 31.60, **Height** 16.90, **Thickness** 7.95

**Alternative no.:** JSX162

Pkg. 100

## JS16/0 Brush

**Replacing:** JSX162

12 **V**, **Length** 18.95, **Lead length** 31.50, **Height** 16.90, **Thickness** 7.95

**Alternative no.:** JSX162

Pkg. 100

## JS21 Brush

**Replacing:** JSX21-22

12 **V**, **Length** 17.55, **Lead length** 185.00, **Height** 12.89, **Thickness** 6.00

**Alternative no.:** JSX21-22

Pkg. 100

## JS22 Brush

**Replacing:** JSX21-22

12 **V**, **Length** 17.48, **Lead length** 40.20, **Height** 12.85, **Thickness** 5.93

**Alternative no.:** JSX21-22

Pkg. 100

## JS25 Brush

12 **V**, **Length** 17.45, **Lead length** 140.00, **Height** 12.95, **Thickness** 5.90



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#Available while stock last, * Program development.

Pkg. 100

**JS33** Brush
**Replacing:** 83227258, 83227257
**Servicing:** E70R, 63111000, 63111005, 63111006, 63111008, 63111018, 63111037, 63111043, 63112003, 63113001, 63113002, 63193001
12 **V**, **Length** 16.34, **Lead length** 34.00, **Height** 14.85, **Thickness** 5.90
**Alternative no.:** JSX33-344

Pkg. 100

**JS34** Brush
**Replacing:** 83227258, 83227257
**Servicing:** E70R, 63111000, 63111005, 63111006, 63111008, 63111018, 63111037, 63111043, 63112003, 63113001, 63113002, 63193001
12 **V**, **Length** 16.34, **Lead length** 34.00, **Height** 14.85, **Thickness** 5.90
**Alternative no.:** JSX33-344

Pkg. 100

**JS5** Brush
**Replacing:** JSX52
**Servicing:** 63220505
12 **V**, **Length** 17.00, **Lead length** 29.50, **Height** 16.00, **Thickness** 5.95
**Alternative no.:** JSX52

Pkg. 100

**JS5/0** Brush
**Replacing:** JSX52
**Servicing:** 63220505
12 **V**, **Length** 17.03, **Lead length** 29.38, **Height** 15.94, **Thickness** 5.95
**Alternative no.:** JSX52

Pkg. 100

**MAS17** Brush
**Replacing:** MASX17-184
12 **V**, **Length** 23.00, **Lead length** 44.00, **Height** 15.90, **Thickness** 8.75
**Alternative no.:** MASX17-184

## Bushings

Pkg. 10

**140046** Bushing
**Replacing:** 74705710
**Servicing:** 63222408, 63222438, 63222506, 63223203, 63223236, 63223237, 63223330, 63223332, E100-1.3/12V8
**ID** 12.00, **OD** 16.00, **Length** 16.90
**Alternative no.:** B140046

Pkg. 10

**140047** Bushing
**Replacing:** 74860380
**Servicing:** 63221408, 63291405
**ID** 10.08, **OD** 14.02, **Length** 15.00
**Alternative no.:** B140047

Pkg. 10

**140048** Bushing
**Replacing:** 74860300
**Servicing:** 63111000, 63111001, 63111005, 63111006, 63111007, 63111008, 63111010, 63111016, 63111017, 63111018, 63111036, 63111037
**ID** 12.07, **OD** 16.02, **Length** 14.00
**Alternative no.:** B140048

Pkg. 10

**140049** Bushing
**Replacing:** 74866140
**Servicing:** 63222408, 63222438, 63222506, E100-1.3/12V8
**ID** 12.11, **OD** 16.01, **Length** 24.00
**Alternative no.:** B140049

Pkg. 10

**140050** Bushing
**Replacing:** 74868210
**Servicing:** 063102018010, 063102021010, 63101002, 63101018, 63101021, 63101022, 63101023, 63102003, 63102020, 63103002, 63103007
**ID** 10.08, **OD** 14.02, **Length** 13.50
**Alternative no.:** B140050

Pkg. 10

**140065** Bushing
**Replacing:** 74705810
**ID** 14.07, **OD** 18.05, **Length** 20.15
**Alternative no.:** B140065

Pkg. 10

**140109** Bushing
**Replacing:** 74825410
**Servicing:** 63224580, 63224600, M125M3-Z9(3/12)
**ID** 16.12, **OD** 22.00, **Length** 19.00



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# Available while stock last, * Program development.



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Pkg. 10

## 140110 Bushing

**Replacing:** 74826710

**Servicing:** 63224580, 63224600, M125M3-Z9(3/12)

**ID** 16.25, **OD** 22.02, **Length** 29.00

Pkg. 10

## 140200 Bushing

**Replacing:** 72362510

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216814, 63216815

**ID** 12.60, **OD** 18.57, **Length** 19.50

**Alternative no.:** B140200

Pkg. 10

## 140201 Bushing

**Replacing:** 72365010

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216731, 63216741, 63216747, 63216748, 63216800, 63216814, 63216815, 63216825

**ID** 20.31, **OD** 24.00, **Length** 13.90

**Alternative no.:** B140201

Pkg. 10

## 140202 Bushing

**Replacing:** 72362910, 62362910

**Servicing:** 63216703, 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216814, 63216815

**ID** 14.16, **OD** 20.06, **Length** 12.00

**Alternative no.:** B140202

Pkg. 10

## 140211 Bushing

**Replacing:** 74798210

**ID** 18.13, **OD** 24.02, **Length** 28.00

Pkg. 10

## 140268 Bushing

**Replacing:** 74881110

**Servicing:** 63114014, 63221300, 63221302, 63221303, 63221330, 63221333, 63221400, 63221401, 63221403, 63221404, 63221408, 63221431

**ID** 12.09, **OD** 16.00, **Length** 12.00

**Alternative no.:** B140268

Pkg. 10

## 140269 Bushing

**Replacing:** 74887310

**ID** 12.03, **OD** 16.02, **Length** 17.00

**Alternative no.:** B140269

Pkg. 10

## 140270 Bushing

**Replacing:** 74887890, 74887810

**Servicing:** 63223203

**ID** 12.07, **OD** 16.02, **Length** 11.30

**Alternative no.:** B140270

Pkg. 10

## 140452 Bushing

**Replacing:** 74827010

**Servicing:** 63224580, 63224600, M125M3-Z9(3/12)

**ID** 24.20, **OD** 29.00, **Length** 18.00

Pkg. 10

## 140614 Bushing

**Servicing:** 50246416, 63114008, 63114010, 63114014, 63114017, 63221801, 63221831, 63222000, 63222005, 63222030, 63222034, 63222036

**ID** 15.18, **OD** 18.12, **Length** 11.90

**Alternative no.:** B140614

Pkg. 10

## 140653 Bushing

**Servicing:** 63111000, 63111001, 63111005, 63111006, 63111007, 63111008, 63111010, 63111016, 63111018, 63111036, 63111037, 63112003

**ID** 8.10, **OD** 12.00, **Length** 8.75

Pkg. 10

## 140654 Bushing

**Servicing:** 63111000, 63111005, 63111008, 63111018, 63113001, 63113003, 63193001, 63223431, 63223432, 63223433, 63223435, 63223436

**ID** 18.16, **OD** 23.05, **Length** 7.43



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#Available while stock last, * Program development.

Pkg. 10

**140690** Bushing
**ID** 11.53, **OD** 13.50, **Length** 23.00
**Alternative no.:** B140690

**140827** Bushing Kit
**Servicing:** 63216884, MT68PB

Pkg. 10

**140947** Bushing
**Servicing:** 63111001, 63111005, 63111006, 63111008, 63111010, 63111016, 63111017, 63111018, 63111023, 63111036, 63111037, 63111043
**ID** 8.02, **OD/collar** 14.50, **OD** 11.50, **Length** 9.98, **Height/collar** 1.50
**Alternative no.:** B140947

Pkg. 10

**141017** Bushing
**ID** 18.03, **OD** 23.00, **Length** 9.20

Pkg. 10

**141091** Bushing
**Servicing:** 63101007, 63191007, 63280071
**ID** 8.12, **OD/collar** 14.10, **OD** 11.55, **Length** 9.00, **Height/collar** 1.50

Pkg. 10

**141092** Bushing
**Servicing:** 63111007
**ID** 11.15, **OD** 13.97, **Length** 13.90

Pkg. 10

**141197** Bushing
**Servicing:** 63111001, 63111005, 63111006, 63111007, 63111010, 63111016, 63111036, 63111037, 63112003, 63113001, 63113002, 63191001
**ID** 18.08, **OD** 23.05, **Length** 9.30

Pkg. 10

**141271** Bushing
**Servicing:** 138533
**ID** 11.90, **OD** 13.00, **Length** 18.20

Pkg. 10

**142033** Bushing
**Servicing:** 63101007, 63191007
**ID** 11.10, **OD** 14.03, **Length** 13.80

Pkg. 10

**142034** Bushing
**ID** 18.19, **OD** 20.98, **Length** 9.00

Pkg. 100

**B140046** Bushing
**Replacing:** 74705710
**ID** 12.00, **OD** 16.00, **Length** 16.90
**Alternative no.:** 140046

Pkg. 100

**B140047** Bushing
**Replacing:** 74860380
**ID** 10.08, **OD** 14.04, **Length** 15.00
**Alternative no.:** 140047

Pkg. 100

**B140048** Bushing
**Replacing:** 74860300
**ID** 12.07, **OD** 16.02, **Length** 14.00
**Alternative no.:** 140048

Pkg. 100

**B140049** Bushing
**Replacing:** 74866140
**ID** 12.11, **OD** 16.01, **Length** 24.00
**Alternative no.:** 140049

Pkg. 100

**B140050** Bushing
**Replacing:** 74868210
**Servicing:** 63101015, 63102022
**ID** 10.08, **OD** 14.04, **Length** 13.50
**Alternative no.:** 140050

Pkg. 100

**B140065** Bushing
**Replacing:** 74705810
**ID** 14.07, **OD** 18.05, **Length** 20.15
**Alternative no.:** 140065

Pkg. 100

**B140200** Bushing
**Replacing:** 72362510
**ID** 12.60, **OD** 18.55, **Length** 19.70
**Alternative no.:** 140200

Pkg. 100

**B140201** Bushing
**Replacing:** 72365010
**ID** 20.31, **OD** 24.00, **Length** 13.90
**Alternative no.:** 140201

Pkg. 100

**B140202** Bushing
**Replacing:** 72362910, 62362910
**ID** 14.15, **OD** 20.08, **Length** 11.90
**Alternative no.:** 140202

Pkg. 100

**B140268** Bushing
**Replacing:** 74881110
**ID** 12.09, **OD** 16.00, **Length** 12.00
**Alternative no.:** 140268

Pkg. 100

**B140269** Bushing
**Replacing:** 74887310
**ID** 12.03, **OD** 16.02, **Length** 17.00
**Alternative no.:** 140269

Pkg. 100

**B140270** Bushing
**Replacing:** 74887890, 74887810
**ID** 12.08, **OD** 16.02, **Length** 11.30
**Alternative no.:** 140270

Pkg. 100

**B140614** Bushing
**Replacing:** 140614
**ID** 15.17, **OD** 18.12, **Length** 11.80
**Alternative no.:** 140614

Pkg. 100

**B140690** Bushing
**Replacing:** 140690
**ID** 11.53, **OD** 13.50, **Length** 23.00
**Alternative no.:** 140690

Pkg. 100

**B140947** Bushing
**Servicing:** 63193001
**ID** 8.02, **OD/collar** 14.50, **OD** 11.50, **Length** 9.98, **Height/collar** 1.50
**Alternative no.:** 140947

## Bearings

### Needle Bearings

Pkg. 10

**140242** 5★ Needle Bearing
**Replacing:** 83222270
**Servicing:** PMGR SERIES, M78, M79, 63111006, 63111023, 63111043, 63112003, 63113001, 63113002, 63113003, 63193001, 63223537
**ID** 12.00, **OD** 16.00, **Height** 10.00

Pkg. 10

**140421** Needle Bearing
**Replacing:** 74905910
**Servicing:** 5MT
**ID** 11.13, **OD** 15.90, **Height** 12.70

Pkg. 5

**140483** 5★ Needle Bearing
**Servicing:** 50246416, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222036, 63222038, 63222039, 63222130
**ID** 12.00, **OD** 18.00, **Height** 14.00

## Repair Kits

**134029** Repair Kit
**Servicing:** 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216814, 63216815, 63216825



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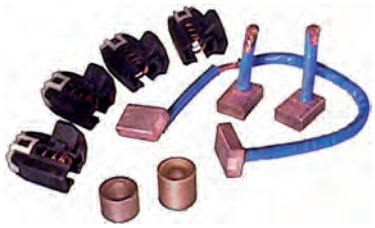


**138373** Repair Kit

**Servicing:** 63101003, 63221800, 63221830, 63221832, 63221834, 63221892

**138374** Repair Kit

**Servicing:** 63114010, 63221801, 63221831, 63222000, 63222001, 63222030, 63222031, 63222034, 63222035, 63222036, 63222039, 63222130

## Sundry Parts

### Covers

**133668** C.E. Bracket

**Servicing:** 63216725, 63216726, 63216727, 63216740, 63216747, 63216748, 63216800, 63216814, 63216815, 63216825, 63216826, 63216827

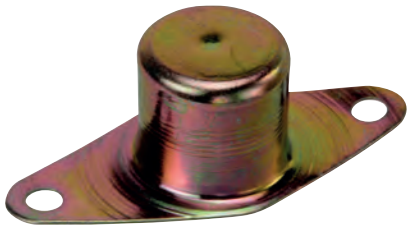
**ID** 113.30

**137738** Cover

**Servicing:** 63216741, 63216831, 63216884, 63217226, 63221535, MT67CB, MT68AD, MT68LC, MT68PB, MT68RA, MT68T, MT71DB, MT71TA, MT72AB

**OD** 64.90, **Height** 9.20

Pkg. 5



**138487** Cover

**Servicing:** 50246532, 63222831, 63222836, 63222837, 63222897, 63223031, 63223033, 63223034, 63223035

**ID** 18.30, **OD** 25.75x56.15, **Height** 18.25, **Rubber** w/o

Pkg. 10

**232065** Dust Cover

**Servicing:** M79, M80

**OD** 15.80, **Height** 5.60

*Tolerance of thickness is +0.10/-0.05 mm.*

### Oil Seals

Pkg. 10

**235524** Oil Seal

**Servicing:** 63216747, 63216748, 63216874, MT68MA

**ID** 35.00, **OD** 50.00, **Height** 7.00

### Thru Bolts

Pkg. 10

**231378** Through Bolt

**Servicing:** 63114010, 63222034, 63222138

**Total length** 181.25, **Thread size** M6, **Thread size/rear** M6

Pkg. 10

**232066**# Through Bolt

**Servicing:** 63221302, 63221303, 63221333

**Total length** 136.15, **Thread size** M6, **Thread size/rear** M6

### Various

Pkg. 5

**133851**# Bracket

**Servicing:** 63217147, MT71D, MT71DA, MT71E, MT71T, MT71TA

**133911** Stop Collar Kit

**Servicing:** 63224580

*For 16.00 mm shaft.*

**133912** Stop Collar Kit

**Servicing:** 063102018010, 063102021010, 30000A, 30001A, 30002A, 30003A, 50246532, 50246648, 63101000, 63101002, 63101003, 63101008

*For 11.50 mm shaft.*

**133913** Stop Collar Kit

**Servicing:** 63222408, 63222438, 63222506, E100-1.3/12V8, MT68T

*For 14.00 mm shaft.*

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**134604** Cover Band

**Servicing:** 63220700, 63220701, 63220703, 63220704, 63220705, 63220706, 63220721, 63220724, 63220734, 63220743, 63220901

**Mount. hole** 5.30, **OD** 95.00, **Height** 32.00

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**135359** Stop Collar Kit

**Servicing:** 63216725, 63216726, 63216727, 63216731, 63216740, 63216741, 63216747, 63216748, 63216800, 63216814, 63216815, 63216825

**ID** 14.70, **OD** 20.98, **Height** 5.98

---

Pkg. 10

**135644** Screw

**Replacing:** 74751110

**Servicing:** 063102018010, 063102021010, 30000A, 30001A, 30002A, 30003A, 63101002, 63101003, 63101008, 63101015, 63101018, 63101021

**Thread** M10, **Total length** 12.10, **Thread length** 7.40

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Pkg. 10

**135969** Grommet

**Servicing:** 63221300, 63221302, 63221330, 63221401, 63221431, 63221437, 63221500, 63221530, 63221532, 63221533, 63221535, 63221539

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Pkg. 5

**136321** Insulator

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Pkg. 10

**139526** Grommet

**Servicing:** 63221801, 63221831, 63221832, 63221890, 63222001, 63222031, 63222034, 63222035, 63222036, 63222038, 63222039, 63222131

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Pkg. 5

**139889** Spacer

**Servicing:** 63221431, 63222034, 63222138

**ID** 6.40, **OD** 22.00, **Height** 17.75

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Pkg. 10

**231559** Grommet

**Servicing:** 63101008, 63223035, 63223433, 63223435, 63223436, 63223438, 63223531

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Pkg. 10

**232176** Spring/roller retainer

**ID** 27.90, **OD** 45.75, **Thickness** 14.60, **Material** Metal

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Pkg. 10

**232849** Rubber Bushing

**Servicing:** 63111001, 63111005, 63111006, 63111007, 63111008, 63111018, 63111037, 63112003, 63113001, 63113002, 63191001, 63193001

**ID** 38.40, **OD** 54.85, **Length** 9.30

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**233827** Washer Kit

**Servicing:** 63216725, 63216726, 63216727, 63216800, 63216814, 63216825, 63216826, 63216827, 63216874, 63217201, 63220704, 63220724

**OD** 37.10, **Thickness** 7.00, **Material** Steel

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Pkg. 10

**234952** Gasket

**Servicing:** 063341658000, 063377002010, 063377008010, 063377423010, 063377424010, 063377425010, 63321200, 63321234, 63321270

**Length** 36.85, **Thickness** 1.90, **Width** 26.75

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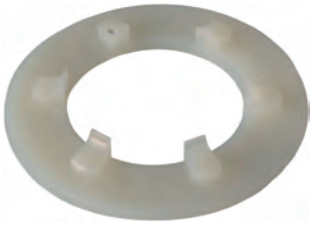
Pkg. 10



**235237** Spring/roller retainer

**Servicing:** 85541680, 85541750, 85541810

**ID** 27.25, **OD** 45.45, **Thickness** 1.75, **Material** Shockproof plastic

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**236184** Spring Kit

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## Armatures

### 12 V

**131929** 5★ Armature
**Manufacturer:** Magneton
**Replacing:** 443930158061, 0158061
**Servicing:** 443115144702, 443115144722, 443115144742, 443115144763, 9144702, 9144703, 9144722, 9144742, 9144743, 9144744, 9144763
12 **V**, 3 **kW**, **Shaft length** 324.40, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR

**132937** Armature
**Servicing:** 11590400, 443115142112, 443115142350
12 **V**, 0.8 **kW**, **Shaft length** 250.00, **Core thickness** 58.00, **No./splines** 12, **Rotation** ACR

**136265** 5★ Armature
**Manufacturer:** Magneton
**Replacing:** 7150882, 443937150880
**Servicing:** 443115141310, 443115141311, 443115141320, 443115141331, 443115141338, 9141310, 9141311, 9141312, 9141317, 9141319
12 **V**, 1 **kW**, **Shaft length** 131.00, **Core thickness** 49.00, **No./teeth** 12

**231680**# 5★ Armature
**Manufacturer:** Magneton
**Replacing:** 7151542, 7151540, 443937151540
**Servicing:** 443115142700, 443115142701, 443115142702, 443115142704, 443115142708, 443115142709, 443115142721, 443115142722
12 **V**, 3 **kW**, **Shaft length** 168.00, **Core thickness** 60.00, **No./teeth** 12

## Yokes w/ magnets

### 12 V

**136269** 5★ Yoke
**Manufacturer:** Magneton
**Replacing:** 7155351, 7150892, 443937150890
**Servicing:** 443115141310, 443115141311, 9141310, 9141312, 9141317, 9141319, 9141371, 9141390, 9141391, 9141392, 9141393, 9141396
12 **V**, 1 **kW**, **OD/middle** 74.70, **Length** 54.55, **Brush gear** w/, **Magnets** w/
*Brush box: HC-CARGO 136449.*

## D.E. Brackets

**136266** 5★ D.E. Bracket
**Manufacturer:** Magneton
**Replacing:** 6954930, 443936954930
**Servicing:** 443115141310, 443115141311, 9141310, 9141311, 9141399, 9141430

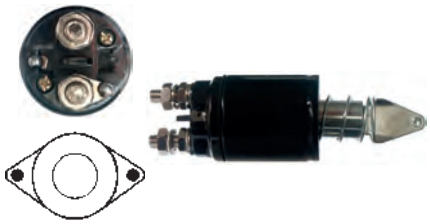
## I.M. Brackets

**136268**# 5★ I.M. Bracket
**Replacing:** 6954940, 443936954940
**Servicing:** 443115141310, 443115141311, 443115141320, 9141310, 9141311, 9141312, 9141317, 9141319, 9141320, 9141325, 9141326
*Magneton.*

## Solenoids

### 12 V

**130904** Solenoid
**Replacing:** 443930157911, 0157912
**Servicing:** 02914207, 11490400, 443115142062, 443115142063, 443115142071, 443115142110, 443115142112, 443115142162, 9142063
12 **V**, **B+** M10, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 24.20, **OD** 54.70, **OD/cover** 55.20, **Total length** 134.20, **Height/B+** 21.25, **Width/kl. 15a** 9.85, **Width/kl. 50** 10.25, **Coil bolt** M10, **Coil bolt 2** 22.75, **No./terminals** 4
*Cap: HC-CARGO 133413.*

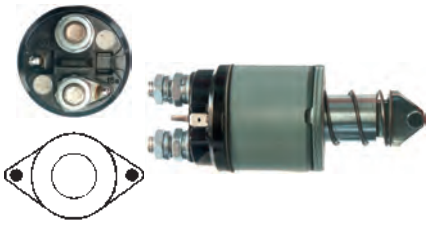


**132120** Solenoid
**Replacing:** 443930157971, 0157972
**Servicing:** 44311514442, 443115144420, 443115144620, 443115144702, 443115144722, 443115144724, 443115144742, 443115144763, 9144702
12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 24.35, **OD** 54.85, **OD/cover** 55.15, **Total length** 151.35, **Height/B+** 24.45, **Width/kl. 50** 10.00, **Coil bolt** M10, **Coil bolt 2** 25.25, **No./terminals** 3
*Cap: HC-CARGO 135773.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 134795 Solenoid

**Replacing:** 7150242, 443937150241, 443930150241

**Servicing:** 11590400, 443115142350

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 24.35, **OD** 55.00, **OD/cover** 55.00, **Total length** 144.45, **Height/B+** 21.45, **Width/kl. 50** 10.85, **Coil bolt** M10, **Coil bolt 2** 21.35, **No./terminals** 3
*Cap: HC-CARGO 135773.*

## 136270 Solenoid

**Replacing:** 7150872, 443937150870, 113937150870

**Servicing:** 443115141310, 443115141311, 443115141320, 9141310, 9141311, 9141312, 9141317, 9141319, 9141320, 9141325, 9141326

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.10, **OD** 49.85, **OD/cover** 44.65, **Total length** 114.25, **Height/B+** 21.00, **Width/kl. 50** 9.60, **Coil bolt** M8, **Coil bolt 2** 20.90, **No./terminals** 3
*Cap: HC-CARGO 139329.*

**Alternative no.:** F032136270

## 231681 5★ Solenoid

**Manufacturer:** Magneton

**Replacing:** 7154142, 7153912, 7153612, 7153182, 7153142, 7152762, 7152560, 443937151560

**Servicing:** 443115142700, 443115142701, 443115142702, 443115142723, 443115142740, 443115142780, 9142700, 9142702, 9142723, 9142724

12 **V**, **B+** M10, **Kl. 50** 6.30, **ID/cover** 24.30, **OD** 54.80, **OD/cover** 55.10, **Total length** 122.00, **Height/B+** 24.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 25.10, **No./terminals** 3

## 235488 5★ Solenoid

**Manufacturer:** Magneton

**Replacing:** 7152822

**Servicing:** 443115141331, 443115141338, 7141331, 7141338, 9141331

12 **V**, **B+** M8/14.00, **ID/cover** 16.80, **OD** 50.00, **OD/cover** 47.80, **Switch dim.** 8.60, **Height/B+** M8/14.00, **No./terminals** 3
*Cap: HC-CARGO 233788.*

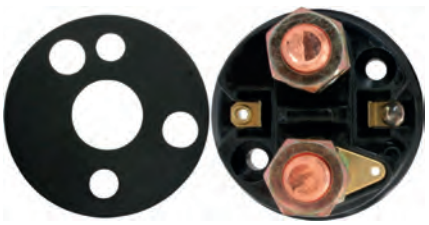
## Solenoid Parts

### Solenoid Caps

## 132282 Solenoid Cap

**Replacing:** 443936150600

**OD** 54.35, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 132265, 132266, 132267.*



## 133413 Solenoid Cap

**Replacing:** 443930157540, 0157541

**Servicing:** 02914207, 11490400, 443115142071, 443115142110, 443115142112, 443930157911

**OD** 55.20, **No./terminals** 4
*HC-CARGO 130904.*

## 135773 Solenoid Cap

**Replacing:** 443930157941, 443930157940, 0157941

**Servicing:** 11590400, 443115142350, 44311514442, 443115144420, 443115144620, 443115144722, 443930157971

**OD** 55.00, **No./terminals** 3
*HC-CARGO 132120, 134795.*

## 139329 Solenoid Cap

**Servicing:** 443937150870

**OD** 47.65, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 136270.*

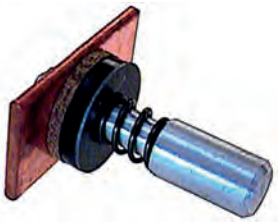
## 233788 5★ Solenoid Cap

**Servicing:** 443115141331, 443115141338, 9141331

**OD** 47.50, **No./terminals** 3, **Bracket type** Crimp
*Magneton.*

### Moving Contacts

Pkg. 5



## 133412 Moving Contact

**Replacing:** 443930157560, 0157561

**Servicing:** 02914207, 11490400, 11590400, 443115142071, 443115142110, 443115142112, 443115142350

**Shaft measurement** 30.00, **Thickness** 2.00

Pkg. 5

**135772**# Spring
**Replacing:** 316116119950
**Servicing:** 44311514442, 443930157971
**OD** 10.55, **Length** 12.00

Pkg. 5

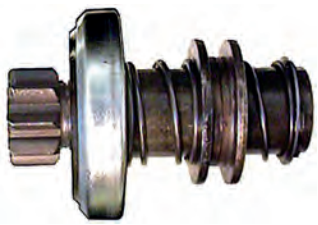
**139327** Moving Contact
**Servicing:** 443115141310, 443937150870
**Shaft measurement** 49.55, **Thickness** 2.60

Pkg. 10

**236082** Moving Contact
**Replacing:** 7152920
**Servicing:** 443115141331, 443115141338, 9141331, 9141338, 9141394, 9141395, 9141399, 9141413, 9141414
**Length** 37.00, **Shaft measurement** 30.00, **Thickness** 2.00

## Drives

**130729** 5★ Drive
**Manufacturer:** Magneton
**Replacing:** 8014251, 443930154211, 443930154210
**Servicing:** 44311514442, 443115144420, 443115144620, 443115144722, 443115144742, 9144722, 9144742, 9144743, 9144820, 9144821
**ID** 14.65, **OD** 40.70, **OD/housing** 59.00, **Total length** 91.25, **Splines A** 12, **No./teeth** 11, **Rotation** CR



**132941** Drive
**Replacing:** 7150171, 443937150171
**Servicing:** 11590400, 443115142350
**ID** 12.55, **OD** 25.35, **OD/housing** 54.00, **Total length** 78.95, **Splines A** 12, **No./teeth** 9, **Rotation** ACR

**133961**# 5★ Drive
**Manufacturer:** Magneton
**Replacing:** 8014241, 443930154220
**Servicing:** 443115144702, 443115174602, 9144702, 9174602
**ID** 14.65, **OD** 36.50, **OD/housing** 59.00, **Total length** 91.20, **Splines A** 12, **No./teeth** 9

**136267** Drive
**Replacing:** 7153860, 7152960, 7152860, 7150860, 443937150860
**Servicing:** 443115141310, 443115141311, 443115141331, 443115141338, 9141310, 9141311, 9141327, 9141331, 9141391, 9141392, 9141393
**OD** 25.40, **Total length** 78.45, **No./teeth** 9, **Rotation** ACR
**Alternative no.:** 136267Z

**231679** 5★ Drive
**Manufacturer:** Magneton
**Replacing:** 7153180
**Servicing:** 443115142780, 9142780
**OD** 36.00, **Total length** 107.45, **No./teeth** 10, **Rotation** CR

**234445** 5★ Drive
**Manufacturer:** Magneton
**Replacing:** 71553360, 7153360
**Servicing:** 443115142780, 9142724, 9142860
**OD** 45.60, **Total length** 105.75, **No./teeth** 13, **Rotation** CR

## Drive Parts

### Rollers

Pkg. 100

**239300** Roller
**OD** 5.00, **Length** 10.00

### Pinion

**231877** Pinion
**Servicing:** 443937150860
**OD** 25.35, **Height** 79.10, **No./splines** 10, **No./teeth** 9

## Levers

**133411** 5★ Lever
**Manufacturer:** Magneton
**Replacing:** 443930158411, 443930158410, 0158411
**Servicing:** 02914207, 11490400, 11590400, 443115142071, 443115142110, 443115142112, 443115142350, 9142063, 9142110, 9142112
**Dist.** 30.10, **ID** 8.15, **Length** 85.85



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#Available while stock last, * Program development.

Pkg. 5

**139615** 5★ Lever
**Manufacturer:** Magneton
**Replacing:** 5233420
**Servicing:** 443115141310, 443115141311, 443115141320, 443115141331, 443115141338, 9141331, 9141430
**Dist.** 5.09, **Length** 51.40

## Clutches

**231878** Clutch
**Servicing:** 443937150860
**OD** 10.50, **Total length** 43.00, **No./splines** 10, **No./teeth** 44, **Rotation** CR

## Brush Gears

**136449** Brush Gear
**Servicing:** 443115141310, 443115141311, 443115141331, 443115141338, 9141331, 9141430
12 **V**, **OD** 73.65

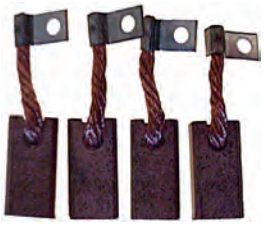
## Brush Gear Parts

### Brush Springs

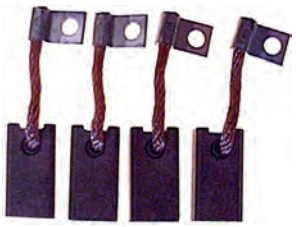
Pkg. 10

**135775**# Brush Spring
**Replacing:** 315677064480, 315238040
**Servicing:** 433115144702, 433115144722, 433115144742, 44311514442
**OD** 16.15, **Length** 35.30

## Brush Sets



**PLSX24** Brush Set
12 **V**, **Length** 25.35, **Lead length** 32.50, **Height** 12.85, **Thickness** 8.90



**PLSX34** Brush Set
**Replacing:** 344174503246, 344154113246, 344122021, 344112021, 334174503246
**Servicing:** 9142063, 9142110, 9142112, 9142350
12 **V**, **Length** 22.00, **Lead length** 33.00, **Height** 12.00, **Thickness** 8.00
**Alternative no.:** PLS3

**PLSX44** Brush Set
**Replacing:** 932232, 344174143386, 344154123387, 344112027
**Servicing:** 44311514442, 443115144420, 443115144620, 443115144722, 9144702, 9144703, 9144722, 9144724, 9144742, 9144743, 9144744
12 **V**, **Length** 26.00, **Lead length** 50.00, **Lead length 2** 45.00, **Height** 26.60, **Thickness** 8.80

**PLSX54** Brush Set
**Servicing:** 443115141310, 443115141311, 443115141331, 443115141338, 9141331, 9141430
12 **V**, **Length** 12.50, **Lead length** 21.00, **Height** 12.50, **Thickness** 6.00

## Brushes

Pkg. 100

**PLS3** Brush
**Replacing:** PLSX34
12 **V**, **Length** 22.25, **Lead length** 37.00, **Height** 11.80, **Thickness** 7.95
**Alternative no.:** PLSX34

Pkg. 50

**PLS3/0** Brush
**Replacing:** 110904300
12 **V**, **Length** 22.34, **Lead length** 35.54, **Height** 11.88, **Thickness** 7.96

## Bushings

Pkg. 10

**140012** Bushing
**Replacing:** 323125723125
**Servicing:** 02914207, 11490400, 11590400, 443115142071, 443115142110, 443115142350
**ID** 12.56, **OD** 16.55, **Length** 14.00
**Alternative no.:** B140012

Pkg. 10

**140397** Bushing
**Replacing:** 931550
**ID** 23.10, **OD** 27.05, **Length** 20.00
**Alternative no.:** B140397



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#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

**140527** Bushing

**Replacing:** 931544

**ID** 15.00, **OD** 20.00, **Length** 19.85

Pkg. 10

**140691** Bushing

**Replacing:** 323662642933, 323622642933, 323144016, 323114016

**Servicing:** 11590400, 443115142112, 443115142350, 9142063, 9142110, 9142112, 9142350

**ID** 9.95, **OD** 14.00, **Length** 14.75

Pkg. 10

**140756** Bushing

**Replacing:** 323622641703, 323125641703, 323125527131, 323114011, 2000940

**Servicing:** 44311514442, 443115144420, 443115144620, 443115144722, 9144702, 9144722, 9144724, 9144742, 9144743, 9144744, 9144763

**ID** 14.52, **OD** 18.00, **Length** 17.00

**Alternative no.:** B140756

Pkg. 10

**140757** Bushing

**Replacing:** 323144014, 323125527127, 323114014

**Servicing:** 44311514442, 443115144420, 443115144620, 443115144722, 9144702, 9144722, 9144724, 9144742, 9144743, 9144744, 9144763

**ID** 14.50, **OD** 18.00, **Length** 15.00

**Alternative no.:** B140757

Pkg. 10

**140758** Bushing

**Replacing:** 323125436125

**Servicing:** 44311514442, 443115144420, 443115144620, 443115144722

**ID** 19.06, **OD** 22.55, **Length** 14.00

**Alternative no.:** B140758

Pkg. 10

**141055**# Bushing

**ID** 21.09, **OD** 24.70, **Length** 4.30

Pkg. 100

**B140397**# Bushing

**Replacing:** 931550

**ID** 23.10, **OD** 27.05, **Length** 20.00

**Alternative no.:** 140397

Pkg. 100

**B140756** Bushing

**Replacing:** 323622641703, 323125641703, 323125527131, 323114011, 2000940

**ID** 14.52, **OD** 18.00, **Length** 17.00

**Alternative no.:** 140756

Pkg. 100

**B140757** Bushing

**Replacing:** 323144014, 323125527127, 323114014

**ID** 14.48, **OD** 18.03, **Length** 14.90

**Alternative no.:** 140757

Pkg. 100

**B140758** Bushing

**Replacing:** 323125436125

**ID** 19.05, **OD** 22.56, **Length** 13.90

**Alternative no.:** 140758

## Bearings

### Needle Bearings

Pkg. 5

**140381** 5★ Needle Bearing

**Replacing:** 324592003, 324592000000

**Servicing:** 443115142740, 9142700, 9142702, 9142704, 9142708, 9142709, 9142720, 9142722, 9142723, 9142724, 9142727, 9142728

**ID** 22.00, **OD** 28.00, **Height** 12.00,

## Sundry Parts

### C.E. Covers

**136271** 5★ C.E. Bracket

**Manufacturer:** Magneton

**Replacing:** 443931658400, 1658400

**Servicing:** 443115141310, 443115141311, 443115141320, 9141310, 9141311, 9141312, 9141317, 9141319, 9141320, 9141325, 9141326



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#Available while stock last, * Program development.

## O-rings

Pkg. 5

**136681** O-ring

**Replacing:** 273111014174

**Servicing:** 44311514442, 443115144420, 443115144620, 443115144702, 443115144722, 443115144742

**ID** 38.00, **Thickness** 2.50

## Various

Pkg. 5

**138606** Lock Ring

**Replacing:** 315817120910, 3155238077

**Servicing:** 11590400, 443115142350

**Thickness** 2.10

*For 13.00 mm shaft.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Armatures

### 12 V

**139752** Armature

**Servicing:** SM302-01, SM302-03, SM302-07, SM302-09, SM302-10, SM302-12, SM302-15, SM302-25, SM302-46, SM302-48

12 **V**, 1/1.3 **kW**, **Shaft length** 137.00, **Core thickness** 46.00, **No./teeth** 9, **Rotation** CR
*Gear reduction.*

## I.M. Brackets

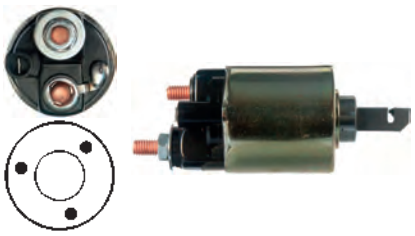
**136760**# I.M. Bracket

**Servicing:** SM302-07, SM302-10, SM302-12, SM302-15, SM302-25, SM402-17, SM402-17N, SM402-21N

**ID** 15.00

## Solenoids

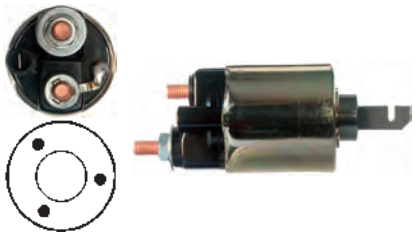
### 12 V



**133076** Solenoid

**Servicing:** SM302-02, SM302-04, SM302-08, SM302-16, SM302-19, SM302-24, SM302-40, SM402-04N

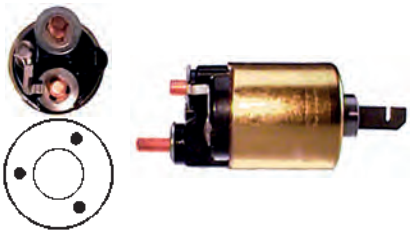
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.65, **OD/cover** 43.80, **Total length** 130.00, **Height/B+** 17.30, **Coil bolt** M8, **Coil bolt 2** 10.70, **No./terminals** 3
*Cap: HC-CARGO 133782.*



**133290** Solenoid

**Servicing:** SM302-01, SM302-02, SM302-03, SM302-04, SM302-09, SM302-16, SM302-18, SM302-27, SM302-28, SM302-41N, SM402-10

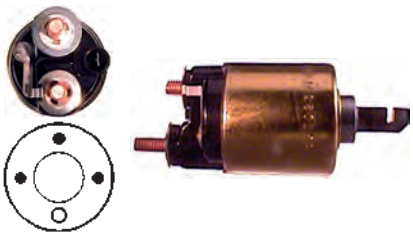
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.60, **OD/cover** 48.10, **Total length** 129.60, **Height/B+** 17.70, **Coil bolt** M8, **Coil bolt 2** 10.50, **No./terminals** 3
*Cap: HC-CARGO 133782.*



**136983** Solenoid

**Servicing:** SM302-07, SM302-10, SM302-12, SM302-15, SM302-24, SM302-25, SM302-44, SM302-44N, SM302-45, SM302-45N, SM302-46

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.70, **OD/cover** 43.20, **Total length** 129.55, **Height/B+** 16.40, **Coil bolt** M8, **Coil bolt 2** 8.35, **No./terminals** 3
*Cap: HC-CARGO 137084.*



**137023** Solenoid

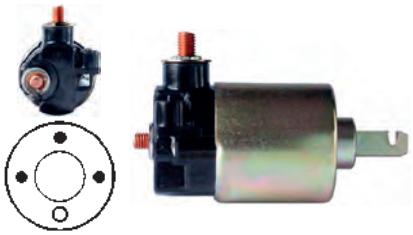
**Servicing:** SM302-22, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-11N

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.70, **OD/cover** 47.65, **Total length** 129.00, **Height/B+** 16.15, **Coil bolt** M8, **Coil bolt 2** 8.80, **No./terminals** 3
*Cap: HC-CARGO 137084.*

**138009** Solenoid

**Servicing:** SM402-07

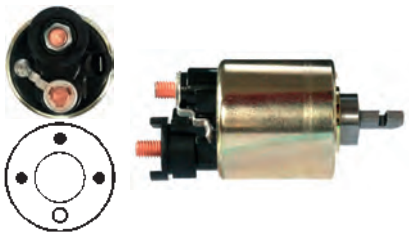
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.55, **OD/cover** 48.00, **Total length** 130.00, **Height/B+** 12.80, **Coil bolt** M8, **Coil bolt 2** 10.60, **No./terminals** 3
*Cap: HC-CARGO 138010.*



**230018** Solenoid

**Servicing:** SM402-01, SM442-32, SM442-36

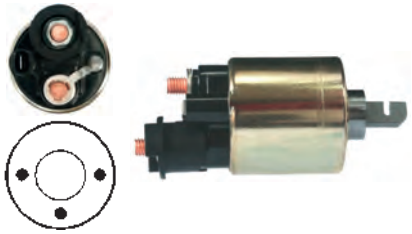
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.80, **OD/cover** 45.25, **Total length** 117.20, **Height/B+** 9.50, **Coil bolt** M8, **Coil bolt 2** 6.25, **No./terminals** 3
*Cap: HC-CARGO 232009.*



**232003** Solenoid

**Servicing:** SM422-09, SM442-01, SM442-08, SM442-10, SM442-19, SM442-22, SM442-24

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.85, **OD/cover** 46.35, **Total length** 111.85, **Height/B+** 11.30, **Coil bolt** M8, **Coil bolt 2** 8.60, **No./terminals** 3
*Cap: HC-CARGO 232005.*



**232004** Solenoid

**Servicing:** SM422-02, SM442-02

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.90, **OD/cover** 45.45, **Total length** 115.55, **Height/B+** 9.00, **Coil bolt** M8, **Coil bolt 2** 8.50, **No./terminals** 3
*Cap: HC-CARGO 232006.*



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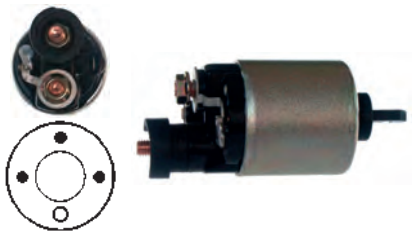
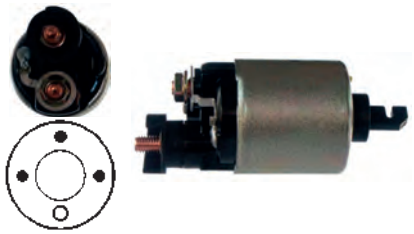
#Available while stock last, * Program development.



**234159** Solenoid

**Servicing:** SM402-15, SM402-15N

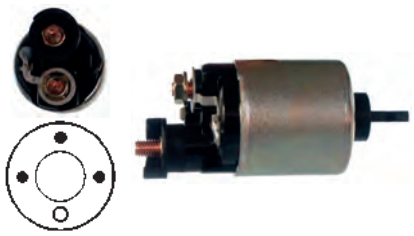
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.80, **OD/cover** 49.20, **Total length** 122.50, **Height/B+** 10.75, **Coil bolt** M8, **Coil bolt 2** 8.75, **No./terminals** 3



**234160** Solenoid

**Servicing:** SM422-09, SM442-01

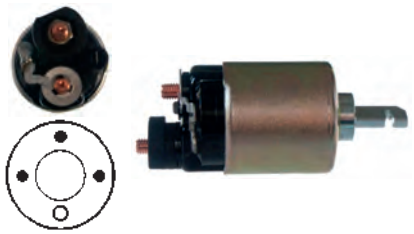
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.70, **OD/cover** 49.10, **Total length** 122.65, **Height/B+** 11.45, **Coil bolt** M8, **Coil bolt 2** 8.20, **No./terminals** 3



**234161** Solenoid

**Servicing:** SM422-27

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.75, **OD/cover** 49.00, **Total length** 122.80, **Height/B+** 10.90, **Coil bolt** M8, **Coil bolt 2** 8.70, **No./terminals** 3



**234162** Solenoid

**Servicing:** SM402-13, SM402-13N, SM402-19

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.75, **OD/cover** 49.00, **Total length** 124.40, **Height/B+** 10.90, **Coil bolt** M8, **Coil bolt 2** 8.25, **No./terminals** 3

**237404** Solenoid

**Servicing:** SM442-25, SM442-46

12 **V**, **No./terminals** 3

## Solenoid Parts

### Solenoid Caps

Pkg. 5

**133782** Solenoid Cap

**Servicing:** SM302-02, SM302-04, SM302-07, SM302-08, SM302-10, SM302-12, SM302-15, SM302-16, SM302-19, SM302-24, SM302-25, SM302-40

**OD** 48.40, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 133076, 133290.*

**137084** Solenoid Cap

**Servicing:** SM302-22, SM302-24, SM302-25, SM302-44, SM302-44N, SM302-45, SM302-45N, SM302-46, SM302-48, SM302-52, SM402-05

**OD** 48.60, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 136083, 137023.*

Pkg. 5

**232005** Solenoid Cap

**Servicing:** SM422-09, SM422-10, SM442-10, SM442-23, SM44223

**OD** 48.70, **No./terminals** 2, **Bracket type** Crimp

*HC-CARGO 232003.*

Pkg. 5

**232009** Solenoid Cap

**Servicing:** SM402-01

**OD** 49.25, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 230018.*

### Moving Contacts

Pkg. 5

**132037** Moving Contact

**Shaft measurement** 29.25, **Thickness** 2.45

**Alternative no.:** B132037

## Drives

**134284** Drive

**Servicing:** SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15, SM302-16, SM302-18

**OD** 28.35, **Total length** 99.00, **No./teeth** 9, **Rotation** CR

*Pinion: HC-CARGO 134283.*

**230761** Drive

**Servicing:** SM13

**OD** 44.50, **Total length** 107.00, **Splines A** 29, **No./teeth** 19, **Rotation** ACR



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# Available while stock last, * Program development.

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**230762** Drive

**Replacing:** SM1329850

**Servicing:** SM13, SM13298

**OD** 39.00, **Total length** 91.50, **No./teeth** 17, **Rotation** ACR

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**333901** Drive

**OD** 29.00, **Total length** 95.00, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

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## Drive Parts

### Rollers

Pkg. 10

**238549** Roller

**OD** 8.00, **Length** 11.90

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### Pinion

**134283** Pinion

**Servicing:** SM302-02, SM302-07, SM302-08, SM302-10, SM302-18, SM302-22, SM302-24, SM302-25, SM402-04, SM402-04N, SM402-05

**OD** 28.80, **Height** 99.10, **No./splines** 18, **No./teeth** 9, *For HC-CARGO 134284.*

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## Clutches

**233743**# Clutch

**Servicing:** SM302-21, SM302-22, SM302-27, SM302-28, SM302-42, SM302-44, SM302-45, SM302-46, SM302-48, SM402-10, SM402-11, SM402-13

**OD** 14.40, **OD/housing** 61.90, **Total length** 77.60, **Splines A** 18, **No./teeth** 44, **Drive type** Steel, **Rotation** CR

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## Brush Gears

**232311** Brush Gear

**Servicing:** SM402-01, SM402-03, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-16, SM402-16N, SM402-17, SM402-17N, SM402-21N

12 **V**, **OD** 65.80

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**234139** Brush Gear

**Servicing:** SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15, SM302-16, SM302-18

**OD** 60.65

*Brush set: HC-CARGO 140706 (x2).*

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## Brush Sets

**140706** Brush Set

**Servicing:** SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15, SM302-16, SM302-18

12 **V**, **Length** 15.00, **Lead length** 33.00, **Height** 14.00, **Thickness** 6.00

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**140841** Brush Set

**Servicing:** SM402-01, SM402-04, SM402-04N, SM402-05, SM402-05N, SM402-10, SM402-16, SM402-16N, SM402-17, SM402-17N, SM402-21N

12 **V**, **Length** 16.50, **Lead length** 121.00, **Lead length 2** 35.00, **Height** 17.00, **Thickness** 4.70

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**141246** Brush Set

**Servicing:** SM442-25

12 **V**, **Length** 16.00, **Lead length** 30.00, **Lead length 2** 35.00, **Height** 17.00, **Thickness** 5.00

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## Bushings

Pkg. 10

**140648** Bushing

**Servicing:** SM302-01, SM302-02, SM302-03, SM302-07, SM302-09, SM302-10, SM302-12, SM302-15, SM302-25, SM302-27, SM302-41N, SM302-45

**ID** 8.12, **OD** 13.10, **Length** 8.34

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Pkg. 10

**140698** Bushing

**ID** 23.55, **OD** 27.00, **Length** 5.85

**Alternative no.:** B140698

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#Available while stock last, * Program development.

Pkg. 5

**141182** Bushing
**ID** 23.85, **OD** 27.00, **Length** 5.65

## Bearings

### Needle Bearings

Pkg. 5

**140468** 5★ Needle Bearing
**ID** 8.00, **OD** 12.00, **Height** 10.00

## Sundry Parts

### O-rings

Pkg. 10

**235692** O-ring
**ID** 44.00, **Thickness** 2.45,
**Material** Rubber

### Various

Pkg. 5

**133561** Lock Ring
**Thickness** 1.85, **Material** Steel

Pkg. 5

**133562** Lock Ring
**ID/housing** 5.95, **OD/housing** 13.70,
**Thickness** 4.60, **Material** Steel

Pkg. 5

**133670** Rubber Boot
**Servicing:** SM302-01, SM302-02, SM302-03, SM302-04, SM302-07, SM302-08, SM302-09, SM302-10, SM302-12, SM302-15, SM302-16, SM302-18
**ID** 18.45, **OD** 21.25, **Length** 52.30

Pkg. 5

**135013** Washer
**ID** 23.10, **OD** 46.00, **Thickness** 2.35

Pkg. 5

**136341** Retaining Ring
**Servicing:** 134284
**Thickness** 1.40, **Material** Steel



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#Available while stock last, * Program development.

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## Armatures

### 12 V

**132484** Armature

**Replacing:** M106X57171, M106X54971, M106X53571, M106X53171, M106X51571, M106X29471, M106X08571, M106X01471

**Servicing:** M002T24181, M002T25083, M002T25481, M002T25581, M002T25681, M002T25681G, M002T50171, M002T50181, M002T50281, M002T50285

12 **V**, 1.4 **kW**, **Shaft length** 147.80, **Core thickness** 53.65, **No./teeth** 9, **Rotation** CR/ACR

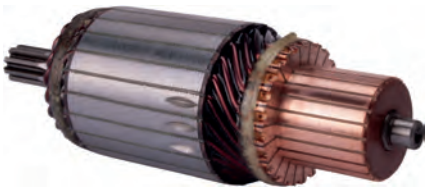
**132486** Armature

**Replacing:** MD618369, MD607636, M106X41674, M106X41673, M106X41672, M106X41671, M106X29871, M106X02271

**Servicing:** M002T54271, M002T54272, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T54771, M002T54871

12 **V**, 2 **kW**, **Shaft length** 152.00, **Core thickness** 53.20, **No./teeth** 9, **Rotation** CR/ACR

**Alternative no.:** F032132486



**132487** Armature

**Replacing:** M106X50671, M106X40671

**Servicing:** M002T60071, M002T60072, M002T60171, M002T60172, M002T60185, M002T92071, M002T92171, M002T92172, M2T60071, M2T60072

12 **V**, 2.2 **kW**, **Shaft length** 169.00, **Core thickness** 53.60, **No./teeth** 9, **Rotation** CR/ACR

**134071** Armature

**Replacing:** MD607413, M106X57271, M106X55071, M106X53271, M106X01871, M106X01271, M106T01871

**Servicing:** M002T52081, M002T52082, M002T52181, M002T52271, M002T52381, M002T52681, M002T52871, M002T52881, M002T52882, M002T53081

12 **V**, 1.2 **kW**, **Shaft length** 139.50, **Core thickness** 53.65, **No./teeth** 9, **Rotation** CR/ACR

**134736** Armature

**Replacing:** MD618443, MD607924, M106X52871, M106X52771, M106X52571, M106X50871, M106X50271, M106T52571

**Servicing:** M002T23081, M002T25772, M003T10476D, M003T21281D, M003T21381, M003T21781, M003T21882D, M003T24482H, M003T24482HC

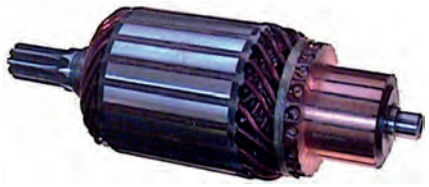
12 **V**, 0.8 **kW**, **Shaft length** 183.10, **Core thickness** 60.00, **No./splines** 8, **Rotation** CR

**134737** Armature

**Replacing:** MD607552, M106X51671, M106T01970

**Servicing:** A3T22681, M003T12572, M003T22681, M003T24482, M003T25081, M003T30081, M003T30082, M003T30088, M003T30281, M003T30282

12 **V**, 0.8 **kW**, **Shaft length** 204.40, **Core thickness** 60.00, **No./splines** 8



**134926** Armature

**Servicing:** M001T50071, M001T50171, M001T50172, M1T50071, M1T50171, M1T50172

12 **V**, 1 **kW**, **Shaft length** 142.45, **Core thickness** 47.90, **No./teeth** 9, **Rotation** CR/ACR

**135118**# Armature

**Replacing:** MD607284, M106T19771, M106T03971, M106T03271

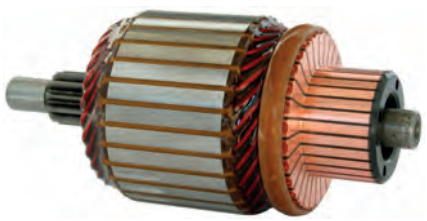
**Servicing:** M003T22581, M003T22582, M003T24181, M003T24481, M003T24482A, M003T24486, M003T25281, M003T25781, M003T25782, M003T25783

12 **V**, 0.9 **kW**, **Shaft length** 226.00, **Core thickness** 60.00, **No./splines** 8, **Rotation** CR

**135824** Armature

**Replacing:** MD604912

12 **V**, 0.8/0.9 **kW**, **Shaft length** 226.00, **Core thickness** 59.90, **No./splines** 10, **Rotation** ACR



**135832** Armature

**Replacing:** M106X58571, M106X52471, M106X52171, M106X08671, M106T52171, M106T50171, M106T08671, M106T06971

**Servicing:** M001T60081, M001T60181, M001T60185, M001T60281, M001T60285, M001T60285A, M001T60381, M001T60581, M001T61181, M001T70283

12 **V**, 1.2/1.4 **kW**, **Shaft length** 121.40, **Core thickness** 53.80, **No./teeth** 11, **Rotation** CR/ACR



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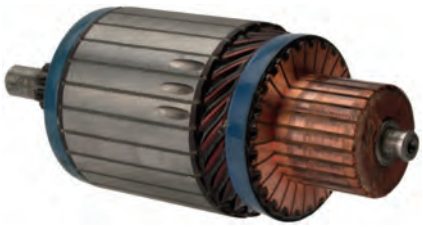
#Available while stock last, * Program development.

## 136334 Armature

**Replacing:** MD618451, MD611204, M806X06971, M106X50471, M106X50171, M106X06971

**Servicing:** M001T70281, M001T70281ZC, M001T70481, M001T70481ZC, M001T70482, M001T70485, M001T70681, M001T70685, M001T70781

12 **V**, 1.2/1.4 **kW**, **Shaft length** 121.60, **Core thickness** 53.80, **No./teeth** 11



## 136613 Armature

**Replacing:** M106X74781, M106X59171, M106X57471, M106X54271

**Servicing:** M001T64285, M001T74081, M001T74087, M001T74181, M001T74281, M001T74281ZC, M001T74283, M001T74381, M001T74381A

12 **V**, 1.7/2 **kW**, **Shaft length** 144.00, **Core thickness** 53.50, **No./teeth** 11

## 138417 Armature

**Replacing:** M106X52271, M106T08371, M106T04771, M00106T08371, M00106T04771

**Servicing:** M002T30481, M002T30581, M002T30585, M002T30586, M002T30881, M002T32281, M002T41381, M002T41581, M002T41586, M002T42381

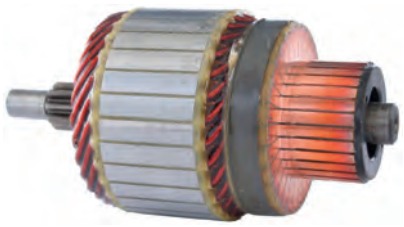
12 **V**, 0.8 **kW**, **Shaft length** 177.55, **Core thickness** 53.80, **No./splines** 8, **Rotation** CR

## 138962 Armature

**Replacing:** MD618958, M106X43572, M106X43571

**Servicing:** 1810A050, 1810A050R, 1810A053, 32A66-10101, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T84771

12 **V**, 2/2.2 **kW**, **Shaft length** 141.00, **Core thickness** 54.00, **No./teeth** 13, **Rotation** CR



## 139398 Armature

**Replacing:** MD619164, M106X58771, M106X57671, M106T57671

**Servicing:** M000T65381, M000T80081, M000T80082, M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A

12 **V**, 1 **kW**, **Shaft length** 106.75, **Core thickness** 53.75, **No./teeth** 9, **Rotation** CR/ACR

## 139399 Armature

**Replacing:** M106X55671

**Servicing:** M002T61871, M002T61871A, M002T61871B, M002T62071A, M002T62571, M002T62671, M2T51681, M2T61871, M2T61871A, M2T61871B

12 **V**, 2/2.2 **kW**, **Shaft length** 147.65, **Core thickness** 53.60, **No./teeth** 9, **Rotation** CR

## 139401 Armature

**Replacing:** MD618536, M106X09971

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T71786, M000T71881, M0T70281, M0T70285

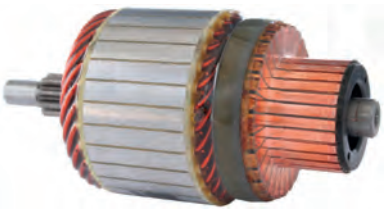
12 **V**, 1 **kW**, **Shaft length** 112.00, **Core thickness** 54.00, **No./teeth** 11, **Rotation** CR

## 139646 Armature

**Replacing:** M106X41971, M106X29272, M106X29271

**Servicing:** M003T67671, M003T67771, M003T90071, M003T90072, M3T66572, M3T67171, M3T67172, M3T67281, M3T67671, M3T67771, M3T90071

12 **V**, 2.5 **kW**, **Shaft length** 177.50, **Core thickness** 60.00, **No./teeth** 9, **Rotation** CR



## 230499 Armature

**Replacing:** M106X59771, M106X58971, M106X58671

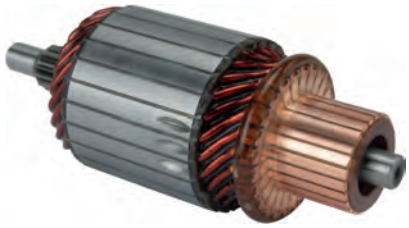
**Servicing:** M000T60081, M000T60081A, M000T60181, M000T60181A, M000T85381, M000T85681, M000T85681ZC, M000T85781, M000T85881

12 **V**, 1.4 **kW**, **Shaft length** 113.30, **Core thickness** 53.60, **No./teeth** 9

## 231468 Armature

**Servicing:** 1810A101, M001T80081, M001T80082, M001T80181, M001T80381, M1T80081, M1T80082, M1T80181, M1T80381

12 **V**, 1.7 **kW**, **Shaft length** 131.95, **Core thickness** 53.90, **No./teeth** 9, **Rotation** CR

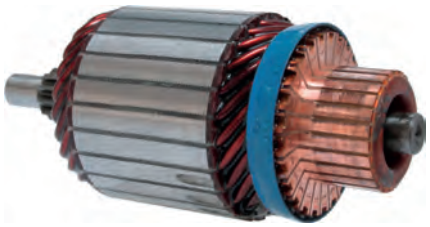


## 231471 Armature

**Replacing:** M106X58171, M106X50571, M106X07271

**Servicing:** M001T74081, M001T74087, M001T74181, M001T74281, M001T74283, M001T74283ZC, M001T74286ZC, M001T74287ZC, M001T74381

12 **V**, 1.7/2 **kW**, **Shaft length** 143.55, **Core thickness** 54.00, **No./teeth** 11, **Rotation** CR/ACR

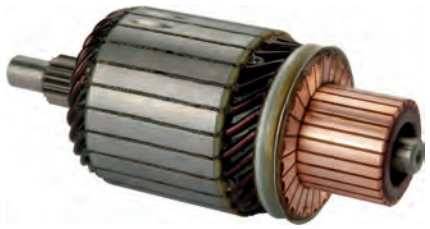


## 234974 Armature

**Servicing:** M001T85681, M001T85682, M001T85781, M001T85981, M001T87081, M1T85681, M1T85682, M1T85781, M1T85981, M1T87081

12 **V**, 1.4/1.7 **kW**, **Shaft length** 128.20, **Core thickness** 53.80, **No./teeth** 11, **Rotation** CR

**Alternative no.:** F032234974



## 235247 Armature

**Servicing:** M001T80481, M1T80481

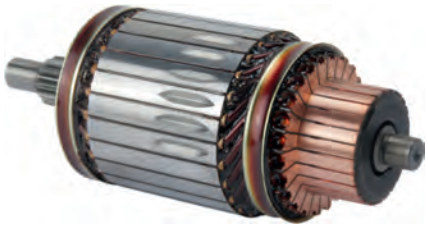
12 **V**, 1.4 **kW**, **Shaft length** 133.00, **Core thickness** 54.00, **No./teeth** 11, **Rotation** CR

**Alternative no.:** F032235247

## 235820 Armature

**Servicing:** M002T13081, M002T13281, M002T13581, M2T13081, M2T13281, M2T13581

12 **V**, 0.85 **kW**, **Shaft length** 164.00, **Core thickness** 53.60, **No./splines** 8, **Rotation** CR



## 237825 Armature

**Replacing:** M106X43871

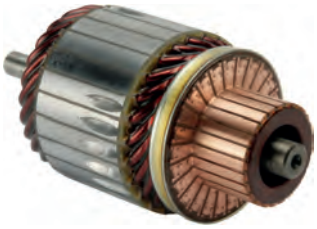
**Servicing:** M008T71371, M008T71371ZE, M008T71471, M008T71471ZE, M008T75371, M2T84271, M2T84371, M2T84671, M2T85071, M2T85771

12 **V**, 1.7 **kW**, **Shaft length** 141.10, **Core thickness** 53.70, **No./teeth** 11

## 237856 Armature

**Servicing:** M000T45271, M000T45271ZT, M0T45271, M0T45271ZT, M0T45275ZT, MR994922

12 **V**, 0.9 **kW**, **Shaft length** 197.50, **Core thickness** 53.00, **No./splines** 12, **Rotation** ACR

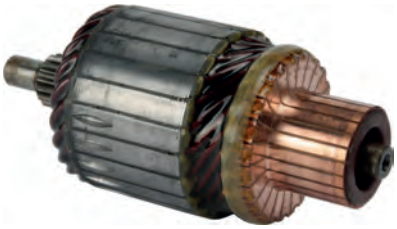


## 239517 Armature

**Servicing:** M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T22471, M000T22472, M00T20871, M0T20871, M0T20871ZE

12 **V**, 1.7 **kW**, **Shaft length** 115.50, **Core thickness** 53.60, **No./teeth** 9

**Alternative no.:** F032239517

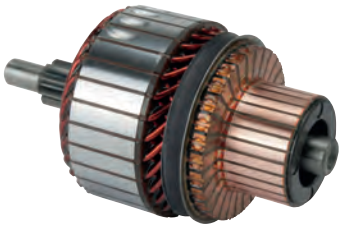


## 239829 Armature

**Servicing:** M001T30071, M001T30072, M001T30171, M001T30172, M001T30173, M001T30271, M1T30071, M1T30072, M1T30073, M1T30171

12 **V**, 1.9 **kW**, **Shaft length** 133.26, **Core thickness** 57.20, **No./teeth** 13

**Alternative no.:** F032239829

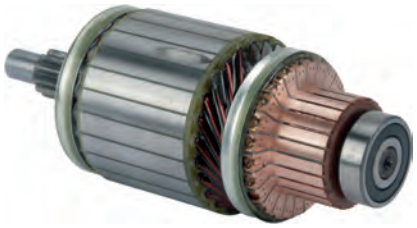


## 330035 Armature

**Replacing:** M106X64771, 330035

**Servicing:** M000T32171, M000T32172, M000T32172ZE, M000T32173ZE, M000T32177, M0T32171, M0T32172, M0T32172ZE, M0T32173, M0T32173ZE

12 **V**, **Shaft length** 100.50, **Core thickness** 53.73, **No./teeth** 9, **Rotation** CR

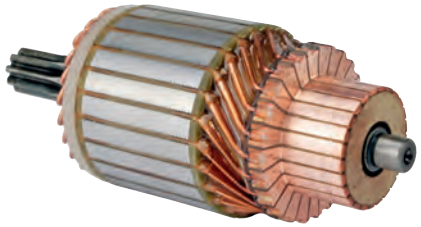


## 330369 Armature

**Servicing:** M002T85671, M002T85672, M008T76071, M008T76072, M008T76072ZE, M2T85671, M2T85672, M8T76071, M8T76071ZE, M8T76072

12 **V**, 2 **kW**, **Shaft length** 141.30, **Core thickness** 53.78, **No./teeth** 11, **Rotation** CR

*kW is not 100%, can be turned OE number up.*



## 330725 Armature

**Servicing:** M002TS0571, M002TS0575, M2TS0571, M2TS0575

12 **V**, 2.2 **kW**, **Shaft length** 140.06, **Core thickness** 53.75, **No./splines** 9, **Rotation** CR

## 331526 Armature

**Servicing:** M000T45171, M000T45171ZT, M0T45171, M0T45171ZT

12 **V**, 0.8 **kW**, **Shaft length** 171.00, **Core thickness** 52.96, **No./splines** 12, **Rotation** CR



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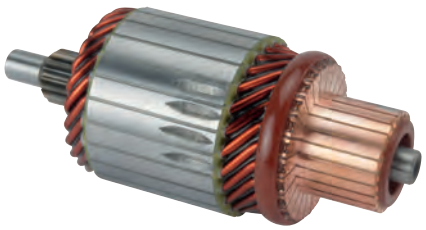
#Available while stock last, * Program development.

## 331889 Armature

**Servicing:** M002T85871, M2T85871

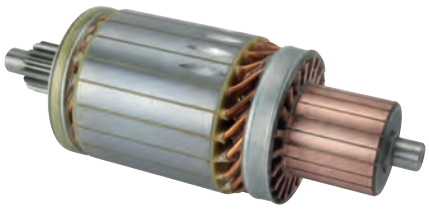
12 **V**, 2 **kW**, **Shaft length** 141.00, **Core thickness** 53.50, **No./splines** 11, **No./teeth** 11, **Rotation** CR



## 332333 Armature

**Servicing:** M001T80681, M1T80681

12 **V**, 2.2 **kW**, **Shaft length** 133.10, **Core thickness** 53.75, **No./splines** 13

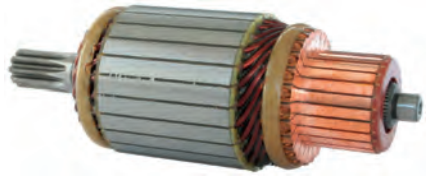


## 333772 Armature

**Replacing:** M106X45073

**Shaft length** 195.50, **Core thickness** 68.00, **No./teeth** 14

### 24 V

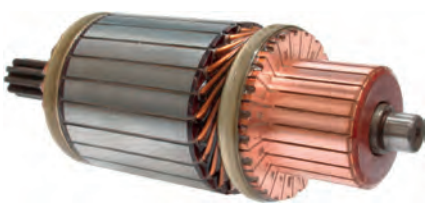


## 133034 Armature

**Replacing:** M106X29371

**Servicing:** M002T64271, M002T65271, M002T65272, M002T66871, M002T66872, M002T66873, M002T67871, M002T67872, M002T67873, M002T67881

24 **V**, 3.2 **kW**, **Shaft length** 151.40, **Core thickness** 53.60, **No./teeth** 9, **Rotation** CR/ACR

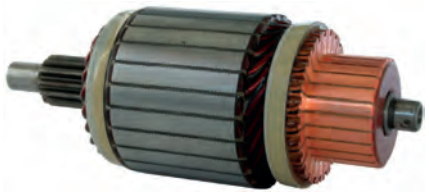


## 136196 Armature

**Replacing:** ME700037, M106X41271, M106X29171

**Servicing:** M003T56071, M003T56072, M003T56074, M003T56082, M003T56084, M003T56174, M003T56181, M003T56182, M003T56183, M003T56272

24 **V**, 4.5 **kW**, **Shaft length** 178.00, **Core thickness** 60.00, **No./teeth** 9, **Rotation** CR/ACR



## 139825 Armature

**Replacing:** ME701492, M106X43772, M105X43771

**Servicing:** M008T80071, M008T80071A, M008T80071B, M008T80371, M008T80373, M008T80471, M008T80471A, M008T80472, M008T80472A

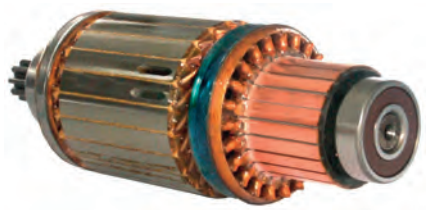
24 **V**, 3.2/3.7 **kW**, **Shaft length** 139.95, **Core thickness** 53.60, **No./teeth** 13, **Rotation** CR

## 231771 Armature

**Replacing:** ME700854, M106X40871

**Servicing:** M002T78072, M002T78372, M002T78381, M002T78382, M002T78383, M002T78481, M2T78071, M2T78072, M2T78271, M2T78372

24 **V**, 5 **kW**, **Shaft length** 169.00, **Core thickness** 53.60, **No./teeth** 9

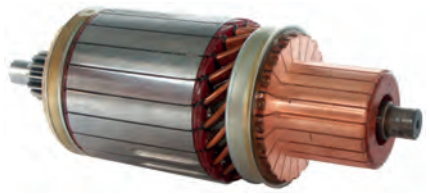


## 233337 Armature

**Replacing:** M106X40471

**Servicing:** M003T95071, M003T95073, M003T95081, M003T95082, M003T95171, M003T95172, M3T95071, M3T95073, M3T95081, M3T95082

24 **V**, 5.5/6 **kW**, **Shaft length** 178.00, **Core thickness** 60.20, **No./teeth** 9



## 233961 Armature

**Replacing:** M106X45071

**Servicing:** 39MT, M009T70379, M009T80472, M009T80473, M009T80571, M009T80572, M009T80671, M009T80771, M009T80772, M009T80871

24 **V**, 8.2 **kW**, **Shaft length** 195.80, **Core thickness** 68.00, **No./teeth** 14, **Rotation** CR

## 234100 Armature

**Servicing:** M009T60371, M009T60471, M009T60671, M009T60672, M009T61473, M009T61474, M009T61571, M009T61671, M009T62172, M009T62671

24 **V**, 6 **kW**, **Shaft length** 176.85, **Core thickness** 60.20, **No./teeth** 13, **Rotation** CR

## 234851 Armature

**Replacing:** ME701446, M105X43671

**Servicing:** M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872, M008T60873, M008T62671, M3T56089

24 **V**, 5 **kW**, **Shaft length** 171.00, **Core thickness** 53.60, **No./teeth** 13



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#Available while stock last, * Program development.

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## Armature Parts

### Various

**B137340**[#] Commutator

**Replacing:** B137340

**Bar dist.** 2.00, **Bar cross dist.** 41.55, **ID** 15.55, **ID/bar lane** 40.50, **OD** 52.85, **Bar length** 5.40, **Height/bar** 5.90, **Height/bar lane** 17.30, **Total height** 25.50, **No./bars** 33

**B138978**[#] Commutator

**Replacing:** B138978

**Bar dist.** 2.25, **Bar cross dist.** 40.95, **ID** 15.25, **ID/bar lane** 38.60, **OD** 55.60, **Bar length** 7.25, **Height/bar** 3.00, **Height/bar lane** 18.75, **Total height** 26.40, **No./bars** 31

## Yokes w/ magnets

### 12 V

**136894** Yoke

**Replacing:** MD611215, M800T53071, M800T39871

**Servicing:** M001T60081, M001T60181, M001T60185, M001T60281, M001T60285, M001T60285A, M001T60381, M001T60581, M001T61181, M001T70281

12 **V**, 1.2/1.4 **kW**, **Length** 63.60, **Brush gear** w/o, **Magnets** w/

**137550**[#] Yoke

**Replacing:** M800X52071, M800X50875, M800X50873

**Servicing:** M001T74491, M001T75581, M001T75581ZC, M001T76481, M1T74491, M1T75581, M1T75581ZC, M1T76481

12 **V**, 1.7 **kW**, **OD/middle** 74.50, **Length** 83.55, **Rotation** ACR, **Brush gear** w/o, **Magnets** w/

**137853** Yoke

**Replacing:** M800X51074

**Servicing:** M001T70781, M001T77081, M001T77181, M001T77281, M1T60681, M1T70781, M1T73081, M1T77081, M1T77181, M1T77281

12 **V**, 1.4 **kW**, **OD/middle** 74.35, **Length** 63.15, **Rotation** ACR, **Brush gear** w/o, **Magnets** w/

**139241** Yoke

**Replacing:** MD619096, M800X64073, M800X61771, M800X60671

**Servicing:** M000T65381, M000T80081, M000T80381, M000T80581, M000T80781, M000T80783, M000T80784, M000T81081, M000T81181, M000T81281

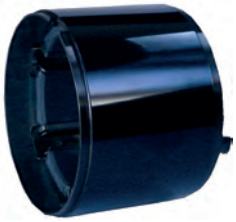
12 **V**, 1 **kW**, **OD/middle** 70.65, **Length** 52.70, **Brush gear** w/o, **Magnets** w/

**139616** Yoke

**Replacing:** M800X57671, M800X52274, M800T57671, M800T52274

**Servicing:** M001T74281, M001T74281ZC, M001T74283, M001T74283ZC, M001T74286ZC, M001T74287ZC, M001T74381, M001T74491, M001T74581

12 **V**, 1.7 **kW**, **OD/middle** 74.30, **Length** 85.30, **Rotation** CR, **Brush gear** w/o, **Magnets** w/



**230459** Yoke

**Replacing:** M800X60471

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M000T80881, M000T81681, M000T83981

12 **V**, 1.2 **kW**, **OD/middle** 70.65, **Length** 54.70, **Rotation** CR, **Brush gear** w/o, **Magnets** w/

**230498** Yoke

**Replacing:** M800X61672, M800X61671

**Servicing:** M000T60081, M000T60081A, M000T60181, M000T85381, M000T85681, M000T85681ZC, M000T85781, M000T85881, M000T85981

12 **V**, 1.4 **kW**, **OD/middle** 70.60, **Length** 60.00, **Brush gear** w/o, **Magnets** w/



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[#]Available while stock last, ***** Program development.

## 331527 Yoke

**Servicing:** M000T45171, M000T45171ZT, M0T45171, M0T45171ZT

12 **V**, 0.8 **kW**, **OD/middle** 70.57, **Length** 79.00, **Rotation** CR, **Brush gear** w/o, **Magnets** w/

## Field Cases

## 135784 Field Case

**Replacing:** M800X49671, M800T43972, M800T35171

**Servicing:** M002T54271, M002T54371, M002T54372, M002T54771, M002T56171, M002T56181, M002T56182, M002T56185, M002T56471, M002T56472

12 **V**, 2 **kW**, **OD/middle** 81.50, **Length** 75.60, **Brush gear** w/o

## 135802 Field Case

**Replacing:** MD604642

12 **V**, 0.6/0.7 **kW**, **OD/middle** 76.00, **Length** 77.00, **Brush gear** w/o

## 135831 Field Case

**Replacing:** M800T34172, M800T34171

**Servicing:** M002T10471, M003T10372, M003T10473, M003T10475, M003T10476, M003T10672, M003T11272, M003T20081, M003T20681, M003T21281

12 **V**, 0.8 **kW**, **OD/middle** 89.30, **Length** 83.70, **Brush gear** w/o

## 135903 Field Case

**Replacing:** MD618270, MD611527, MD611023, M800X45273, M800X45272, M800X45271, M800T47071, M800T45273

**Servicing:** M002T60071, M002T60072, M002T60171, M002T60172, M002T60185, M002T61072, M002T92071, M002T92171, M002T92172, M2T60071

12 **V**, 2.2 **kW**, **OD/middle** 80.65, **Length** 101.65, **Brush gear** w/o

## 135927 Field Case

**Replacing:** M800X54673, M800X54671, M800X52872, M800T54671, M800T52871, M800T38371, M800T35671

**Servicing:** M002T10171, M002T20181D, M002T30481, M002T30581, M002T30586, M002T30881, M002T31081, M002T32281, M002T41381, M002T41581

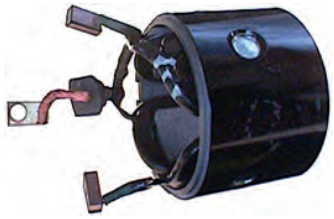
12 **V**, 0.8 **kW**, **OD/middle** 80.50, **Length** 65.55, **Brush gear** w/o

## 136099 Field Case

**Replacing:** MM502416, M800T34971

**Servicing:** M003T24482, M003T30081, M003T30082, M003T30088, M003T30281, M003T30282, M003T30285, M003T30286, M003T30781, M003T30782

12 **V**, 0.8 **kW**, **OD/middle** 89.00, **Length** 70.45, **Brush gear** w/o



## 136135 Field Case

**Replacing:** M800X38973, M800X38871, M800T55971, M800T52971, M800T51871, M800T50471, M800T38973, M800T38972

**Servicing:** M001T72581, M003T10476D, M003T21281D, M003T21882D, M003T24482H, M003T24482HC, M003T24482J, M003T24482K, M003T24486A

12 **V**, 0.8 **kW**, **OD/middle** 89.50, **Length** 62.00, **Brush gear** w/o

## 136377 Field Case

**Replacing:** M800T50373

**Servicing:** M002T51281, M002T51282, M002T52281, M002T54091, M002T58381, M2T51281, M2T51282, M2T52281, M2T54091, M2T58381

12 **V**, 1.4 **kW**, **OD/middle** 80.00

## 136938 Field Case

**Replacing:** M800X43574, M800X43573, M800T47371, M800T43571

**Servicing:** 34466-15101, 34466-15102, M002T64271, M002T64373, M002T65271, M002T65272, M002T66871, M002T66872, M002T66873

24 **V**, 3.2 **kW**, **OD/middle** 81.00, **Length** 85.00, **Brush gear** w/o

*Brush set: HC-CARGO 141273.*

## 138198 Field Case

**Replacing:** M800X47171, M800X46171

**Servicing:** M002T63171, M002T92171, M002T92172, M002T92172A, M2T63171, M2T92171, M2T92172, M2T92172A, MD191437

12 **V**, 2.2 **kW**, **OD/middle** 81.75, **Length** 84.65, **Brush gear** w/o



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## 139361 Field Case

**Replacing:** MD618966, M800X49772, M800X49771

**Servicing:** 32A66-10101, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T84771, M002T87671, M002T88372

12 **V**, 2 **kW**, **OD/middle** 77.00, **Length** 63.00, **Brush gear** w/o

*Brush set: HC-CARGO 140347.*

## 230649 Field Case

**Replacing:** M800X44974, M800X44972

**Servicing:** M002T56272, M2T56272, MM409412, MM409413

12 **V**, 2 **kW**, **OD/middle** 80.75, **Length** 84.50, **Brush gear** w/o

## 230717 Field Case

**Replacing:** MD618269, M800X70171, M800X47072, M800X47071, M00800X47072

**Servicing:** M002T60185, M002T60271, M002T61071, M002T61072, M002T61171, M002T61271, M002T61371, M002T61771, M002T62271, M002T62771

12 **V**, 2.2 **kW**, **OD/middle** 80.45, **Length** 84.60, **Brush gear** w/o

## 231314 Field Case

**Replacing:** M800X35186

**Servicing:** M002T54571, M002T54572, M2T54571, M2T54572

12 **V**, 2.7 **kW**, **OD/middle** 80.70, **Length** 84.85, **Brush gear** w/o

## 231504 Field Case

**Replacing:** MD618974, M800X49877, M800X49871

**Servicing:** 1810A050, 1810A050R, 1810A053, M002T85271, M002T85671, M002T85672, M002T85871, M002T87071, M002T87071ZT, M002T87072ZT

12 **V**, 2.2 **kW**, **OD/middle** 81.65, **Length** 71.75, **Brush gear** w/o

*Field coil only: HC-CARGO 234338.*

## 231772 Field Case

**Replacing:** ME700992, M800T46371

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78481, M2T78372, M2T78381, M2T78382, M2T78481, ME087590

24 **V**, 5 **kW**, **OD/middle** 80.65, **Length** 101.60, **Brush gear** w/o

## 232970 Field Case

**Servicing:** M003T90071, M003T90072, M3T90071, M3T90072, M3T90271

12 **V**, 3.6 **kW**, **OD/middle** 90.55, **Length** 105.70, **Brush gear** w/o

*Terminal kit: HC-CARGO 233065.*

## 234266 Field Case

**Replacing:** M800X70787, M800X70772

**Servicing:** M008T80071, M008T80071A, M008T80071B, M8T80071, M8T80071A, M8T80071B, ME012995, ME013008, ME014418

24 **V**, 3.2 **kW**, **OD/middle** 81.65, **Length** 71.60, **Brush gear** w/o

## 237832 Yoke

**Servicing:** M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

24 **V**, 6.2 **kW**, **OD/middle** 105.30, **Length** 108.20, **Rotation** CR

# Field Coils

## 12 V

## 231872 Field Coil

**Servicing:** M001T50172, M1T50172

12 **V**, 1.7 **kW**, **Height** 79.15, **Width** 165.20, **Internal height** 42.55, **Inner width** 14.30

## 24 V

## 234101 Field Coil

**Servicing:** M003T56174, M003T56181, M003T56182, M003T56183, M3T56174, M3T56181, M3T56182, M3T56183

24 **V**, 5 **kW**, **Height** 91.50, **Internal height** 55.60, **Inner width** 21.35

# C.E. Brackets

## 137219 C.E. Bracket

**Replacing:** MD618458, MD607645, M644X21671, M644B21201, M644B10601, M642X40871, M642X33371, M641B10601

**Servicing:** M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T54771, M002T56171, M002T56181, M002T56182

**ID** 76.50



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#Available while stock last, * Program development.

**139236** C.E. Bracket

**Replacing:** MM502346, M644B10201

**Servicing:** M002T24081, M002T24181, M002T25083, M002T25481, M002T25581, M002T25681, M002T25681G, M002T50171, M002T50181, M002T50281

**ID** 76.00

**230872** C.E. Bracket

**Replacing:** M642X40273, M642X31373, M642X16873, M642X16872, M642X16871

**Servicing:** M000T85681, M000T85681ZC, M000T85881, M000T86081, M001T60081, M001T60181, M001T60381, M001T60581, M001T61181

**231000** C.E. Bracket

**Replacing:** MD607927, M642B16371

**Servicing:** M003T10476D, M003T21281D, M003T21882D, M003T24482H, M003T24482HC, M003T24482J, M003T24482K, M003T24486A, M003T24486H

**ID** 84.50

**231264** C.E. Bracket

**Replacing:** M642X19373, M642X18171

**Servicing:** M001T30071, M001T30072, M001T60281, M001T60285, M001T60285A, M001T68381, M001T70483, M001T70483ZC, M001T70485A

**ID** 72.50

**231291** C.E. Bracket

**Replacing:** M644B16403, M642X19273, M642X18873, M642X17373

**Servicing:** M001T70481, M001T70481ZC, M001T70482, M001T70485, M001T70981, M001T70982, M001T70985, M001T71081, M001T71281

**231502** C.E. Bracket

**Replacing:** MD602211, M642B14371, M642B10271

**Servicing:** A3T22681, M002T10171, M002T10471, M002T20181, M002T20181A, M003T10372, M003T10473, M003T10475, M003T10476, M003T10672

**ID** 85.00

**231503** C.E. Bracket

**Replacing:** MD618968, M642X28771

**Servicing:** 1810A053, M002T80582, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T85271, M002T85671

**ID** 76.50

**231580**[#] C.E. Bracket

**Replacing:** MD611047, M642B15871

**Servicing:** M002T20181, M002T20181D, M002T30381, M002T30385, M002T30481, M002T30581, M002T30585, M002T30586, M002T30681, M002T30786

**ID** 75.80

**232490** C.E. Bracket

**Replacing:** M644B20701

**Servicing:** M003T54071, M003T56071, M003T56072, M003T56082, M003T56174, M003T56181, M003T56182, M003T56183, M003T56272, M003T67671

**ID** 84.50

**234047** C.E. Bracket

**Replacing:** M642X29871

**Servicing:** 1810A050, 1810A050R, 32A66-10101, M008T70371, M008T71571, M008T75071, M008T75071A, M008T75073, M008T75073A, M008T75074

**ID** 75.45

## D.E. Brackets

**135483** D.E. Bracket

**Replacing:** M641X04683, M641X04681, M641X04678, M641X04675, M641X04672

**Servicing:** M003T11272, M003T21281, M003T21282, M003T21781, M003T21881, M003T21882, M003T25181, M3T11272, M3T21281, M3T21282

**135485** D.E. Bracket

**Replacing:** MD618442, MD611371, MD611080, MD607923, M641X33184, M641X33175, M641X33173, M641X33172, M641X33171

**Servicing:** M003T32588, M003T32589, M003T32591, M003T32592, M003T32593, M003T41081, M003T41083, M003T41088, M003T41282, M3T32588



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[#]Available while stock last, * Program development.

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**136068** D.E. Bracket

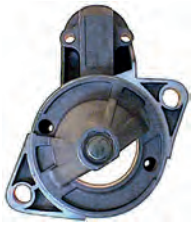
**Replacing:** MM502527, M641X84371

**Servicing:** M002T58581, M2T58581, MM115518

**136753** D.E. Bracket

**Replacing:** M641X81471, M641X80371, M641X37772, M641X37771

**Servicing:** M003T30881, M003T33281, M003T38881, M003T38882, M003T38883, M003T38885, M003T49581, M3T24482L, M3T30881, M3T33281



**136762** D.E. Bracket

**Replacing:** M641X35674, M641X35673, M641X35671

**Servicing:** M003T21281D, M003T21781, M003T21882D, M3T21281D, M3T21781, M3T21781D, M3T21882D

**137221** D.E. Bracket

**Replacing:** M641X71871

**Servicing:** M002T63171, M002T74171, M2T63171, M2T74171, MD140190, MD164976, MD191437

**137641** D.E. Bracket

**Replacing:** M641X71278, M641X71272

**Servicing:** M002T67881, M002T67882, M002T67883, M002T67884, M2T67881, M2T67882, M2T67883, M2T67884, ME017036, ME017085, ME017089

**137710** D.E. Bracket

**Replacing:** M641X43077, M641X43075

**Servicing:** M003T10473, M003T10475, M003T10476, M003T11174, M3T10473, M3T10475, M3T10476, M3T11173, M3T11174

**137712**# D.E. Bracket

**Replacing:** M641X67371, M641X63271

**Servicing:** M002T56471, M002T56472, M002T56475, M002T65271, M002T65272, M2T56471, M2T56472, M2T56475, M2T65271, M2T65272

**138405** D.E. Bracket

**Replacing:** MD607847, M641X67771, M641X66173, M641X66172

**Servicing:** M002T56181, M002T56182, M002T56185, M002T57271, M2T56181, M2T56182, M2T56185, M2T57271, MD061154, MD069166, MD070934

**139235**# D.E. Bracket

**Replacing:** MD618608, M641X96172

**Servicing:** M002T44081, M002T44681, M002T49881, M2T44081, M2T44681, M2T49881, MD161437, MD180238, MD316001

**230567** D.E. Bracket

**Replacing:** M641X35772, M641X35771

**Servicing:** M003T34781, M003T34782, M003T38981, M003T41781, M3T34781, M3T34782, M3T38981, M3T41781

**230568** D.E. Bracket

**Replacing:** M641X83771

**Servicing:** M001T72481, M001T72481ZC, M001T72483, M001T72483ZC, M001T74581, M001T74583, M1T72481, M1T72481ZC, M1T72483, M1T72483ZC

**230648** D.E. Bracket

**Replacing:** M641X65472, M641X65471

**Servicing:** M002T56272, M2T56272, M2T65671, MM409412, MM409413



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#Available while stock last, * Program development.

**231193** D.E. Bracket

**Replacing:** M641X89671

**Servicing:** M003T42781, M003T42781ZC, M0A01901, M3T42781, M3T42781ZC, MD162838

**231364** D.E. Bracket

**Servicing:** M001T74281, M001T74281ZC, M001T74283, M001T74283ZC, M001T74286ZC, M001T74287ZC, M001T84381ZC, M001T84382ZC, M1T74281

**231366**# D.E. Bracket

**Replacing:** M641X32972

**Servicing:** M002T30481, M002T30581, M002T30585, M002T30586, M002T41381, M002T41581, M002T41586, M002T42381, M2T30481, M2T30581

**231367** D.E. Bracket

**Replacing:** M641XA4572, M641XA4571

**Servicing:** M001T74283, M001T79681, M001T79781, M1T74283, M1T79681, M1T79781, MD318086, MD320618

**231788** D.E. Bracket

**Replacing:** M641X88671

**Servicing:** M001T60281, M001T60285, M001T60285A, M1T60281, M1T60285, M1T60285A

**233455** D.E. Bracket

**Replacing:** M841X84571

**Servicing:** M002T54091, M2T54091

**233802**# D.E. Bracket

**Servicing:** 1810A101, M000T80082, M001T80081, M001T80082, M001T90281, M0T80082, M1T80081, M1T80082, M1T90281

**233904** D.E. Bracket

**Replacing:** MM502398, M641X03972, M641X03971

**Servicing:** M002T50371, M002T50381, M2T50371, M2T50381, MM409410

**233906**# D.E. Bracket

**Replacing:** M641XA2971

**Servicing:** M003T44081, M003T44091ZT, M3T44081, M3T44091ZT, MD301348, MD301348G

**234034** D.E. Bracket

**Servicing:** M001T79481, M001T79482, M1T79481, M1T79482

**234046** D.E. Bracket

**Replacing:** M641XA3471

**Servicing:** M008T75071, M008T75073, M008T75074ZT, M8T75071, M8T75073, M8T75074ZT, ME201650, ME201650A, ME202970

**234225** D.E. Bracket

**Servicing:** M001T76481, M001T79581, M1T76481, M1T79581

**234539** D.E. Bracket

**Replacing:** M641XA2072

**Servicing:** M002T87171, M002T87171ZT, M2T87171, M2T87171ZT, MD315548

**234704** D.E. Bracket

**Replacing:** M641X99271

**Servicing:** M003T43381, M3T43381, MD192227

*Bushing in D.E. bracket: HC-CARGO 140186, 140187, 140194.*



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**234706**[#] D.E. Bracket

**Replacing:** M641X06987, M641X06976

**Servicing:** M003T24481, M003T24482, M003T24482A, M003T24486, M003T30281, M003T30282, M003T30285, M003T30286, M003T33581, M003T33582

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**234931** D.E. Bracket

**Servicing:** M002T87671, M2T87671

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**235123** D.E. Bracket

**Servicing:** M001T80381, M001T80481, M1T80381, M1T80481

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**235329** D.E. Bracket

**Replacing:** M641XA0872

**Servicing:** 1810A053, M002T87071, M002T87071ZT, M002T87072ZT, M2T87071, M2T87071ZT, M2T87072ZT, MD312858

*Needle bearing: HC-CARGO 141090.*

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**235339**[#] D.E. Bracket

**Replacing:** M641XB2971

**Servicing:** M002T87971, M2T87971, MD344182

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**235834**[#] D.E. Bracket

**Replacing:** M641XB2871

**Servicing:** M002T88071, M2T88071

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**235898**[#] D.E. Bracket

**Replacing:** M641X35372

**Servicing:** M003T29482, M3T29482, M3T29482D

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**239831** D.E. Bracket

**Servicing:** M001T30071, M001T30072, M1T30071, M1T30072, M1T30073

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## I.M. Brackets

**138619** I.M. Bracket

**Replacing:** MD611018, M640B28371

**Servicing:** M002T60171, M002T60172, M002T60185, M002T61071, M002T61072, M002T61171, M002T61271, M002T62771, M002T62971, M002T63171

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**230647** I.M. Bracket

**Replacing:** M640B13472

**Servicing:** M002T51281, M002T51282, M002T52281, M002T54085, M002T54091, M002T58981, M2T51281, M2T51282, M2T52281, M2T54085

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**231196** I.M. Bracket

**Replacing:** MD607794, M640B28071

**Servicing:** M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773, M002T74171, M2T56181, M2T56182

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**231813** I.M. Bracket

**Replacing:** ME700972, M640B28771

**Servicing:** M002T57871, M002T57881, M002T61771, M002T67881, M002T67882, M002T67883, M002T67884, M2T57871, M2T57881, M2T61771

**ID** 76.50

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**231988** I.M. Bracket

**Replacing:** M640B26571

**Servicing:** M002T54671, M002T56471, M002T56472, M002T57371, M002T65271, M002T65272, M003T64172, M2T54671, M2T56471, M2T56472

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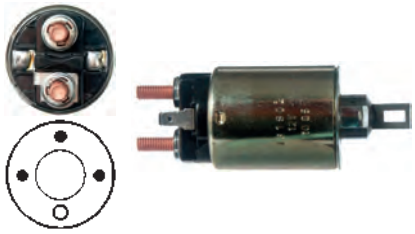
[#]Available while stock last, ***** Program development.

## Solenoids

### 12 V

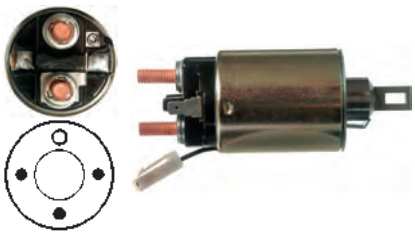


**131802** Solenoid

**Replacing:** MD607933, M371X82373, M371X81871, M371X81371, M371X80571, M371X55072, M371X55071, M371X54871

**Servicing:** M001T50471, M002T10171, M002T10271, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23181, M002T50581, M002T50981

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.30, **OD/cover** 44.75, **Total length** 131.00, **Height/B+** 18.25, **Width/kl. 50** 15.10, **Coil bolt** M8, **Coil bolt 2** 18.25, **No./terminals** 3
*Cap: HC-CARGO 133273.*

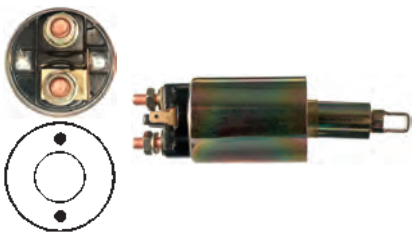


**132095** Solenoid

**Replacing:** M371X33371, M371X31271

**Servicing:** M001T73481A, M001T75381A, M002T10471, M002T23081, M002T25772, M003T10372, M003T20081, M003T20381, M003T20781

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.40, **OD/cover** 44.80, **Total length** 130.70, **Height/B+** 18.25, **Width/kl. 50** 16.10, **Coil bolt** M8, **Coil bolt 2** 18.50, **No./terminals** 4
*Cap: HC-CARGO 133113.*

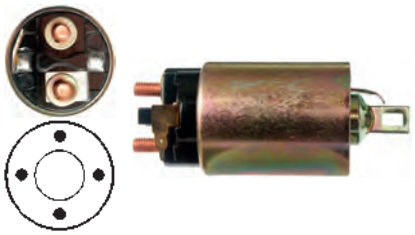


**132470** Solenoid

**Replacing:** M371X41971, M371X14571, M371X12571, M371X11171

**Servicing:** M5T20171, M5T23271, M5T23272

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 21.20, **OD** 52.00, **OD/cover** 45.35, **Total length** 134.20, **Height/B+** 14.75, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3
*Cap: HC-CARGO 230005.*

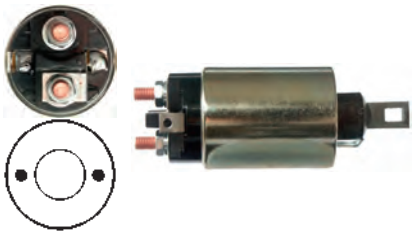


**132471** Solenoid

**Replacing:** M371X46071

**Servicing:** M002T51083, M002T54771, M002T57371, M002T90071, M002T92171, M002T92172, M002T92172A, M2T51083, M2T54771, M2T57371

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 55.25, **OD/cover** 48.85, **Total length** 134.00, **Height/B+** 15.40, **Width/kl. 50** 21.45, **Coil bolt** M8, **Coil bolt 2** 13.80, **No./terminals** 3
*Cap: HC-CARGO 134625.*



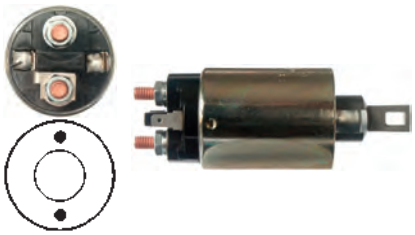
**132472** Solenoid

**Replacing:** ME700115, MD607448, M372X06871, M372X02371, M372X02171, M372X00171, M371X45971

**Servicing:** 32A66-10101, M002T51085, M002T54271, M002T54272, M002T54871, M002T54881, M002T54882, M002T56071, M002T56072, M002T56471

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.00, **OD/cover** 49.10, **Total length** 148.75, **Height/B+** 18.00, **Width/kl. 50** 13.20, **Coil bolt** M8, **Coil bolt 2** 18.20, **No./terminals** 3
*Cap: HC-CARGO 133286.*

**Alternative no.:** 335194

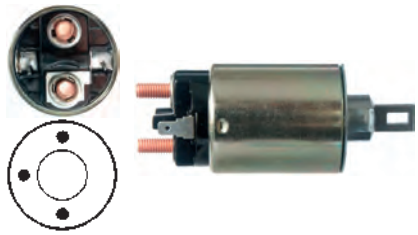


**132473** Solenoid

**Replacing:** M372X04171

**Servicing:** M002T51082, M002T51083, M002T51085, M002T51805, M002T54371, M002T54372, M002T54771, M002T57271, M002T57273, M002T57771

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.75, **OD/cover** 49.20, **Total length** 148.30, **Height/B+** 18.00, **Width/kl. 50** 16.00, **Coil bolt** M8, **Coil bolt 2** 18.15, **No./terminals** 3
*Cap: HC-CARGO 134625.*

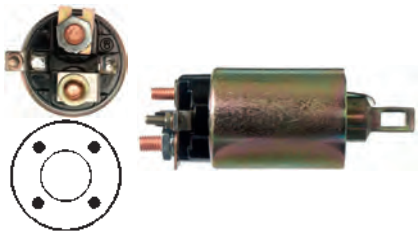


**132763** Solenoid

**Replacing:** M371X01871

**Servicing:** M002T50171, M002T50371, M002T50381, M002T50391, M002T50481, M002T50485, M002T52071, M003T10071, M003T10271, M003T10272

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.35, **OD/cover** 45.30, **Total length** 126.60, **Height/B+** 16.70, **Width/kl. 50** 16.20, **Coil bolt** M8, **Coil bolt 2** 15.90, **No./terminals** 3
*Cap: HC-CARGO 133284.*

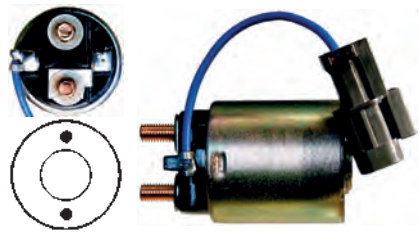


**132917** Solenoid

**Replacing:** MM502322, M371X45471

**Servicing:** M005T22175, M005T22176, M5T22175, M5T22176, M5T22371

12 **V**, **B+** M10, **Kl. 50** 9.40, **OD** 55.20, **OD/cover** 48.50, **Total length** 146.00, **Height/B+** 19.65, **Width/kl. 50** 10.65, **Coil bolt** M10, **Coil bolt 2** 13.00, **No./terminals** 3
*Cap: HC-CARGO 133287.*



**133039** Solenoid

**Replacing:** M371X68771

**Servicing:** M001T70985, M001T71681, M1T70985, M1T71581, M1T71681

12 **V**, **B+** M8, **ID/cover** 24.80, **OD** 51.70, **OD/cover** 44.75, **Total length** 100.70, **Height/B+** 15.15, **Coil bolt** M8, **Coil bolt 2** 15.25, **No./terminals** 3
*Cap: HC-CARGO 138822.*



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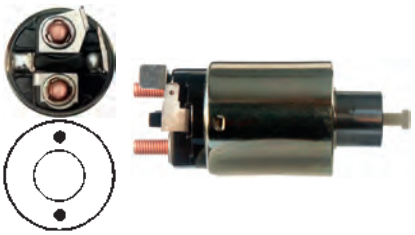
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

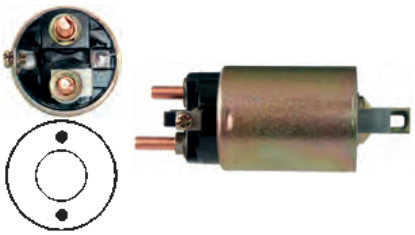


## 133049 Solenoid

**Replacing:** MD611591, M375X95475, M371X97275, M371X95073, M371X93771, M371X93475, M371X74871, M371X74571

**Servicing:** M000T32771, M000T71581, M000T71681, M000T80881, M000T91381, M001T60081, M001T60185, M001T70781, M001T70881, M001T70881A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.10, **OD** 51.50, **OD/cover** 45.15, **Total length** 123.80, **Height/B+** 14.45, **Width/kl. 50** 22.00, **Coil bolt** M8, **Coil bolt 2** 15.65, **No./terminals** 3
*Cap: HC-CARGO 133285.*

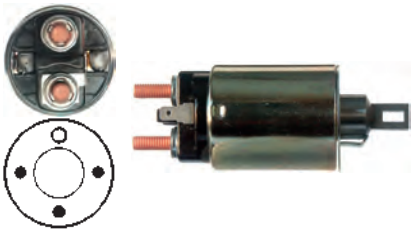


## 133050 Solenoid

**Replacing:** M372X00371

**Servicing:** M002T54671, M002T56471, M002T56472, M002T60271, M002T61371, M003T64172, M2T54671, M2T55571, M2T56471, M2T56472

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 48.60, **Total length** 144.00, **Height/B+** 27.65, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 19.40, **No./terminals** 3
*Cap: HC-CARGO 133286.*

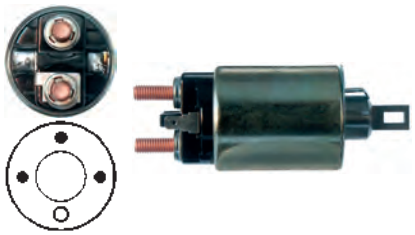


## 133052 Solenoid

**Replacing:** MM502465, MM502461, MD607434, M371X83071, M371X82671, M371X81271, M371X80771, M371X80371

**Servicing:** A3T22681, M001T50071, M001T50171, M002T23685, M002T25481, M002T25681, M002T25681G, M002T50171, M002T50181, M002T50281

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.45, **OD/cover** 45.40, **Total length** 132.45, **Height/B+** 18.55, **Width/kl. 50** 15.55, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Cap: HC-CARGO 133287.*

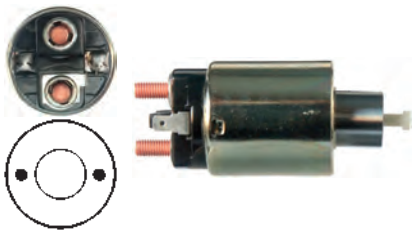


## 133053 Solenoid

**Replacing:** MD607412, M371X59671, M371X36271

**Servicing:** M001T50172, M002T51281, M002T51282, M002T52281, M002T53081, M002T53082, M002T53085, M002T61871, M002T61871A

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.20, **OD/cover** 45.20, **Total length** 132.00, **Height/B+** 19.00, **Width/kl. 50** 16.35, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Cap: HC-CARGO 133273.*

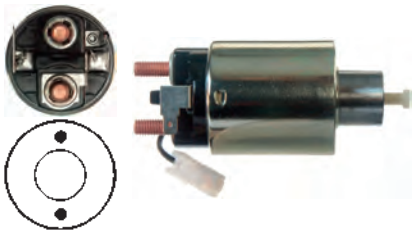


## 133288 Solenoid

**Replacing:** MD618543, M375X00171, M373X71973, M371XA0373, M371X98075, M371X74771, M371X72175, M371X72173

**Servicing:** M000T20171, M000T30471, M000T30571, M000T71385, M000T71881, M000T80081, M000T81482, M000T81681, M000T81981, M000T83981

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.00, **OD** 51.40, **OD/cover** 44.50, **Total length** 122.65, **Height/B+** 16.40, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 15.70, **No./terminals** 3
*Cap: HC-CARGO 133287.*

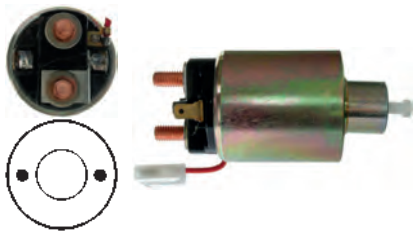


## 133289 Solenoid

**Replacing:** MD618613, MD618581, MD607997, M371X74671, M371X60271

**Servicing:** M000T70381, M001T70481, M001T70481ZC, M001T70482, M001T70483, M001T70483ZC, M001T70485, M001T70485A, M001T73381

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.15, **OD** 51.55, **OD/cover** 45.15, **Total length** 122.30, **Height/B+** 16.55, **Width/kl. 50** 21.00, **Coil bolt** M8, **Coil bolt 2** 16.00, **No./terminals** 4
*Cap: HC-CARGO 134915.*



## 135590 Solenoid

**Replacing:** M371X79273, M371X63571, M371X63271, M371X63171, M371X61571

**Servicing:** M002T30385, M002T30585, M002T30586, M002T41881, M003T24486A, M003T24486H, M003T32782D, M003T33586A, M003T33586D

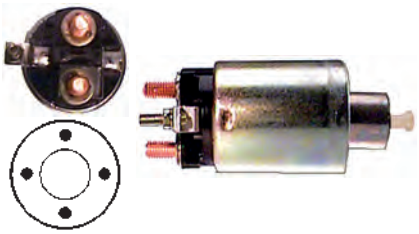
12 **V**, **B+** M8, **Kl. 15a** 6.30, **ID/cover** 25.00, **OD** 52.15, **OD/cover** 45.30, **Total length** 100.90, **Height/B+** 13.60, **Width/kl. 15a** 13.75, **Coil bolt** M8, **Coil bolt 2** 14.15, **No./terminals** 4
*Cap: HC-CARGO 137797.*

## 136327 Solenoid

**Replacing:** M371X69671, M371X68971

**Servicing:** M001T70685, M001T73481A, M001T75381, M001T75381A, M1T70685, M1T70687, M1T73481A, M1T75381, M1T75381A

12 **V**, **B+** M8, **ID/cover** 25.15, **OD** 52.15, **OD/cover** 45.00, **Total length** 100.80, **Height/B+** 14.40, **Coil bolt** M8, **Coil bolt 2** 14.45, **No./terminals** 4
*Cap: HC-CARGO 137871.*



## 137813 Solenoid

**Replacing:** M371X94071, M371X75071, M371X62571

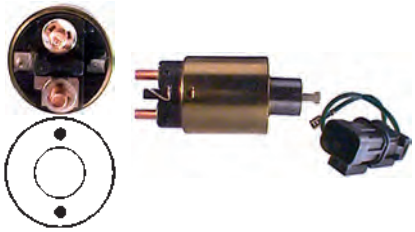
**Servicing:** M001T74281, M001T74281ZC, M001T74283, M001T74283ZC, M001T74286ZC, M001T74287ZC, M001T79481, M001T79482, M001T84381ZC

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 51.40, **OD/cover** 45.25, **Total length** 123.70, **Height/B+** 16.80, **Width/kl. 50** 9.75, **Coil bolt** M8, **Coil bolt 2** 16.00, **No./terminals** 3
*Cap: HC-CARGO 232225.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

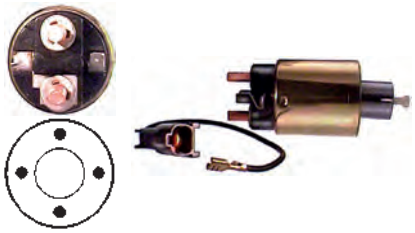


## 137930 Solenoid

**Replacing:** M371X92575, M371X78371, M371X66371, M371X64371

**Servicing:** M001T60281, M001T60285, M001T60285A, M001T70686, M003T38482, M003T41186, M1T60281, M1T60285, M1T60285A, M1T70686

12 **V**, **B+** M8, **ID/cover** 25.20, **OD** 52.15, **OD/cover** 45.10, **Total length** 101.60, **Height/B+** 14.15, **Coil bolt** M8, **Coil bolt 2** 14.40, **No./terminals** 3
*Cap: HC-CARGO 137931.*

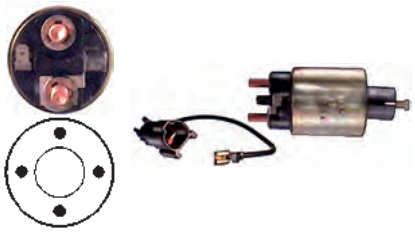


## 138011 Solenoid

**Replacing:** M371X76371, M371X76275, M371X69171

**Servicing:** M000T60081, M000T60081A, M001T72281, M001T72281A, M001T72285, M001T72781A, M001T72781B, M001T72985, M001T78881

12 **V**, **B+** M8, **ID/cover** 25.20, **OD** 51.50, **OD/cover** 45.20, **Total length** 123.30, **Height/B+** 16.30, **Coil bolt** M8, **Coil bolt 2** 15.75, **No./terminals** 3
*Cap: HC-CARGO 138821.*

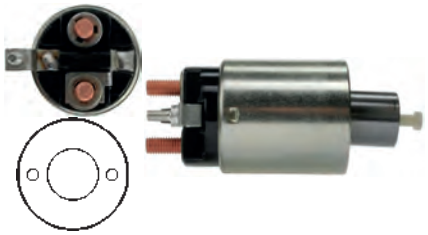


## 138012 Solenoid

**Replacing:** M385X00271, M375X00271, M371X76875, M371X76871, M371X64771

**Servicing:** M000T70281, M000T70285, M000T80285, M000T80285A, M001T72085, M001T72086, M001T72086A, M001T72087, M001T72087A

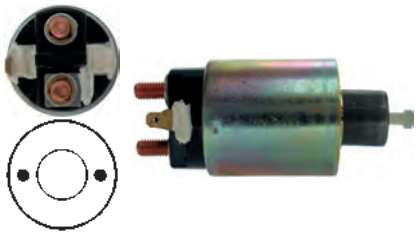
12 **V**, **B+** M8, **ID/cover** 25.25, **OD** 51.30, **OD/cover** 45.30, **Total length** 125.00, **Height/B+** 17.85, **Coil bolt** M8, **Coil bolt 2** 16.85, **No./terminals** 3
*Cap: HC-CARGO 231107.*



## 138013 Solenoid

**Servicing:** M001T76081, M1T76081

12 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 25.15, **OD** 51.60, **OD/cover** 45.15, **Total length** 124.00, **Height/B+** 16.55, **Width/kl. 50** 12.10, **Coil bolt** M8, **Coil bolt 2** 16.10, **No./terminals** 3

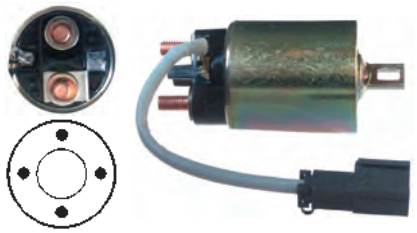


## 138618 Solenoid

**Replacing:** M371X93575, M371X72271

**Servicing:** M001T60381, M001T66081, M1T60381, M1T66081

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.70, **OD** 51.15, **OD/cover** 44.85, **Total length** 120.00, **Height/B+** 14.50, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 3
*Cap: HC-CARGO 133287.*

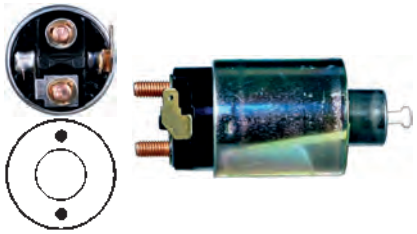


## 138820 Solenoid

**Replacing:** M371X52471

**Servicing:** M002T23685, M002T25481, M002T53881, M002T58481, M2T23685, M2T25481, M2T53881, M2T58481

12 **V**, **B+** M8, **ID/cover** 22.25, **OD** 52.20, **OD/cover** 45.20, **Total length** 114.75, **Height/B+** 15.55, **Coil bolt** M8, **Coil bolt 2** 15.45, **No./terminals** 3
*Cap: HC-CARGO 134626.*

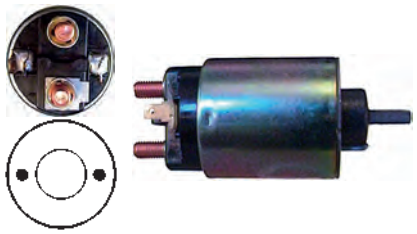


## 139202 Solenoid

**Replacing:** MD619101, M371XA1874, M371X93975, M371X74071

**Servicing:** M000T80381, M000T80581, M000T81281, M000T81283, M000T81284, M000T82281, M000T85981, M001T77081, M001T77381

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.85, **OD** 51.15, **OD/cover** 45.10, **Total length** 120.80, **Height/B+** 15.00, **Width/kl. 50** 20.95, **Coil bolt** M8, **Coil bolt 2** 14.10, **No./terminals** 3
*Cap: HC-CARGO 230385.*

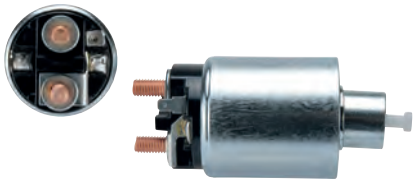


## 139408 Solenoid

**Replacing:** MD618509, M371X80671

**Servicing:** M002T25481, M002T54091, M002T58681, M002T58781, M002T58881, M2T25481, M2T54091, M2T58081, M2T58681, M2T58781, M2T58881

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.10, **OD/cover** 44.95, **Total length** 119.20, **Height/B+** 15.00, **Width/kl. 50** 15.50, **Coil bolt** M8, **Coil bolt 2** 14.35, **No./terminals** 3
*Cap: HC-CARGO 133287.*



## 139537 Solenoid

**Replacing:** ME701462, MD618972, M71XA0274, M371XA0274, M371XA0273

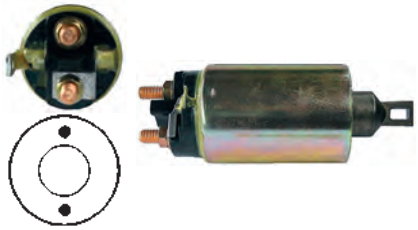
**Servicing:** 1810A050, 1810A050R, 1810A053, M001T90081, M001T90081A, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571

12 **V**, **B+** M8, **Kl. 15a** 5.00, **Kl. 50** 6.30, **ID/cover** 24.80, **OD** 52.15, **OD/cover** 45.00, **Total length** 117.00, **Height/B+** 14.50, **Width/kl. 15a** 11.00, **Width/kl. 50** 14.55, **Coil bolt** M8, **Coil bolt 2** 14.45, **No./terminals** 4



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



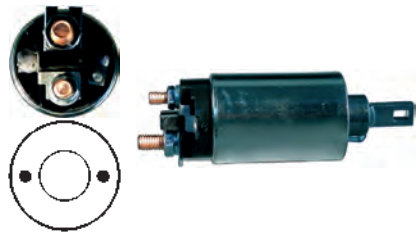
## 139586 Solenoid

**Replacing:** M372X01171

**Servicing:** M002T54571, M002T54572, M2T54571, M2T54572

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.20, **OD/cover** 48.55, **Total length** 156.25, **Height/B+** 21.30, **Width/kl. 50** 13.50, **Coil bolt** M8, **Coil bolt 2** 18.20, **No./terminals** 3

*Cap: HC-CARGO 133286.*

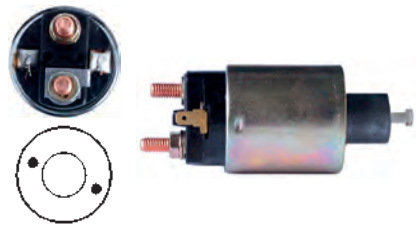


## 139614 Solenoid

**Replacing:** M372X07471, M372X06971

**Servicing:** M003T90071, M003T90072, M3T90071, M3T90072

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 55.00, **OD/cover** 49.00, **Total length** 171.15, **Height/B+** 23.65, **Width/kl. 50** 9.15, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3

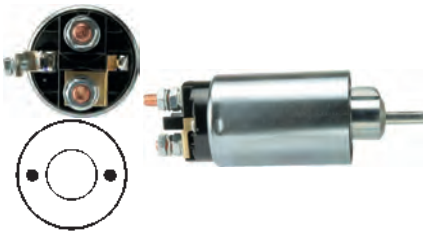


## 230199 Solenoid

**Replacing:** M371XA0773

**Servicing:** M001T66081, M008T70071, M1T66081, M8T70071

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.85, **OD** 51.15, **OD/cover** 44.75, **Total length** 127.50, **Height/B+** 20.20, **Width/kl. 50** 14.80, **Coil bolt** M8, **Coil bolt 2** 14.25, **No./terminals** 3



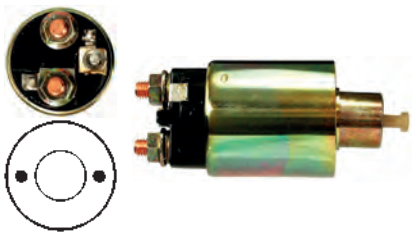
## 230204 Solenoid

**Replacing:** M372X02471

**Servicing:** M002T62271, M003T67671, M2T62271, M3T67171, M3T67172, M3T67671

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.25, **OD/cover** 48.45, **Total length** 158.00, **Height/B+** 21.40, **Width/kl. 50** 11.30, **Coil bolt** M8, **Coil bolt 2** 16.50, **No./terminals** 3

*Cap: HC-CARGO 134625.*



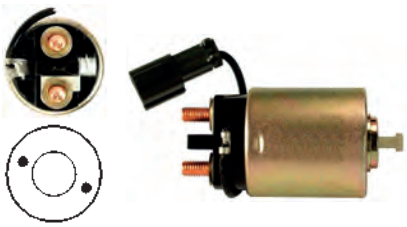
## 230788 Solenoid

**Servicing:** M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T80082, M000T82081, M000T82081ZE, M000T85381, M001T80081

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 24.95, **OD** 51.25, **OD/cover** 44.55, **Total length** 118.40, **Height/B+** 14.15, **Width/kl. 50** 13.15, **Coil bolt** M8, **Coil bolt 2** 13.85, **No./terminals** 3

*Cap: HC-CARGO 139600, 230788 may only be used for applications before 06/2007.*

**Alternative no.:** F032230788



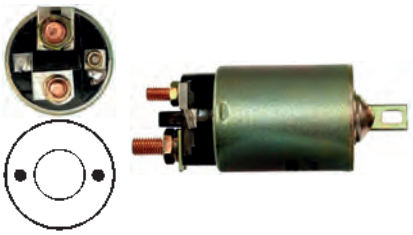
## 231454 Solenoid

**Replacing:** M375X00371

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M001T64285, M0T80281, M0T80281A, M0T80281B, M0T80281ZC, M1T64285

12 **V**, **B+** M8, **ID/cover** 24.70, **OD** 51.55, **OD/cover** 45.15, **Total length** 105.00, **Height/B+** 14.40, **Coil bolt** M8, **Coil bolt 2** 14.40, **No./terminals** 3

*Cap: HC-CARGO 231107.*



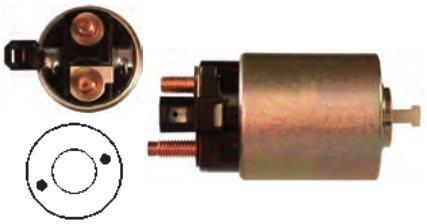
## 231457 Solenoid

**Replacing:** M372X06171

**Servicing:** M002T54471, M008T50071, M008T70471, M008T70971, M2T54471, M8T50071, M8T70971

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 55.15, **OD/cover** 48.55, **Total length** 143.00, **Height/B+** 25.25, **Width/kl. 50** 11.30, **Coil bolt** M8, **Coil bolt 2** 18.95, **No./terminals** 3

*Cap: HC-CARGO 231458.*



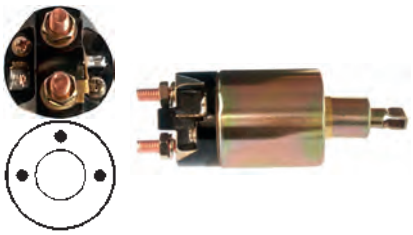
## 231820 Solenoid

**Replacing:** M372X79873

**Servicing:** M001T78581, M001T78681, M1T78581, M1T78681

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 51.30, **OD/cover** 45.15, **Total length** 123.20, **Height/B+** 16.60, **Coil bolt** M8, **Coil bolt 2** 15.65, **No./terminals** 3

*Cap: HC-CARGO 232019.*



## 231976 Solenoid

**Replacing:** MD607549, MD602879, MD602074, M371X02871, M371X00392, M371X00372, M371X00171

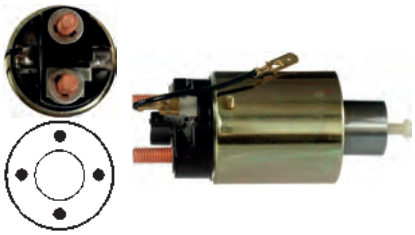
**Servicing:** M001T50171, M002T50285, M002T52082, M002T53882, M002T54091, M003T10473, M003T10977, M003T12572, M003T15772, M003T20081

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.00, **OD** 54.30, **OD/cover** 50.00, **Total length** 142.00, **Height/B+** 20.00, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 20.00, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

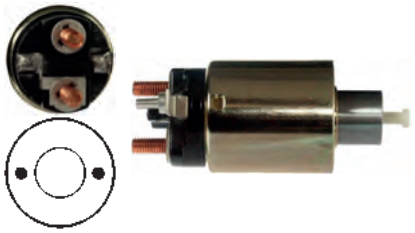


## 231977 Solenoid

**Replacing:** MD618728, MD607889, M371X71473, M371X60171

**Servicing:** M001T70481, M003T25981, M003T32591, M003T33586D, M003T37481, M003T42681, M003T42881, M0T71981, M1T70481, M3T25981

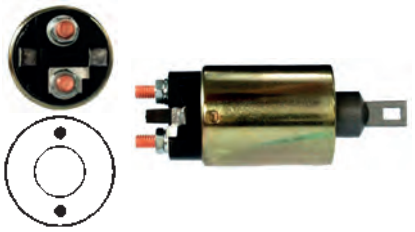
12 **V**, **B+** M8, **ID/cover** 25.15, **OD** 51.30, **OD/cover** 45.25, **Total length** 123.60, **Height/B+** 16.25, **Coil bolt** M8, **Coil bolt 2** 15.35, **No./terminals** 3
*Cap: HC-CARGO 133287.*



## 231978 Solenoid

**Servicing:** M001T73581, M001T74481, M001T74482, M1T73581, M1T74481, M1T74482

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.35, **OD** 51.55, **OD/cover** 45.15, **Total length** 123.85, **Height/B+** 16.40, **Width/kl. 50** 9.65, **Coil bolt** M8, **Coil bolt 2** 15.75, **No./terminals** 3

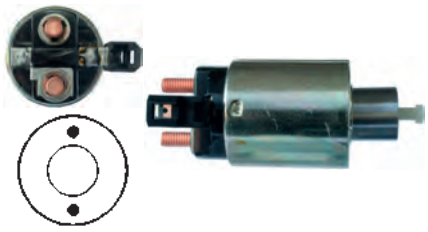


## 231981 Solenoid

**Replacing:** MD607634, M372X00471

**Servicing:** M002T56171, M002T56181, M002T56182, M002T56185, M002T56271, M002T56272, M002T57271, M002T60171, M002T60172, M002T60185

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 54.80, **OD/cover** 49.00, **Total length** 147.65, **Height/B+** 17.60, **Width/kl. 50** 14.45, **Coil bolt** M8, **Coil bolt 2** 17.65, **No./terminals** 3
*Cap: HC-CARGO 134626.*

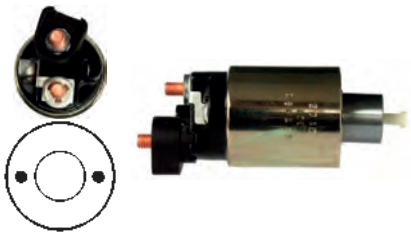


## 231982 Solenoid

**Replacing:** M371X78773

**Servicing:** M001T77777, M001T77777ZC, M001T77781, M1T77777, M1T77777ZC, M1T77781

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.10, **OD** 51.45, **OD/cover** 45.20, **Total length** 122.50, **Height/B+** 16.30, **Coil bolt** M8, **Coil bolt 2** 15.35, **No./terminals** 3
*Cap: HC-CARGO 232018.*

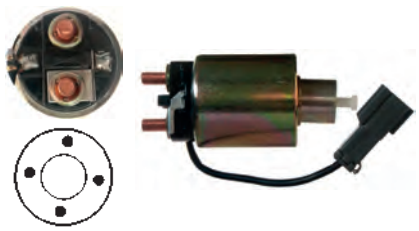


## 231983 Solenoid

**Replacing:** M371X66971

**Servicing:** M002T80081, M002T80681, M2T80081, M2T80281, M2T80481, M2T80681, M2T84471

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.15, **OD** 51.45, **OD/cover** 45.15, **Total length** 134.15, **Height/B+** 13.90, **Coil bolt** M8, **Coil bolt 2** 9.65, **No./terminals** 3
*Cap: HC-CARGO 232224.*



## 233137 Solenoid

**Replacing:** M371X17771

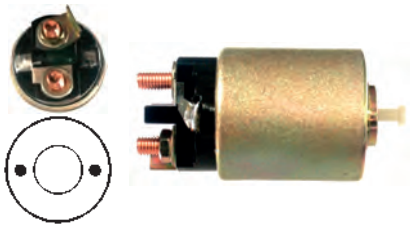
**Servicing:** M003T26785, M3T26785

12 **V**, **B+** M8, **ID/cover** 25.00, **OD** 52.00, **OD/cover** 45.00, **Total length** 101.40, **Height/B+** 13.85, **Coil bolt** M8, **Coil bolt 2** 14.25, **No./terminals** 3
*w/ solenoid plug.*

## 233709 Solenoid

**Servicing:** 1810A101, M000T86081, M002T80582, M002T84771, M002T87671, M0T86081, M2T80582, M2T84771, M2T87671

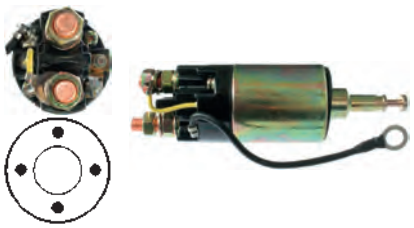
12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 38.55, **OD** 52.40, **OD/cover** 49.65, **Total length** 116.60, **Height/B+** 16.17, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 13.40, **No./terminals** 3
*Cap: HC-CARGO 231860.*



## 233889 Solenoid

**Servicing:** M001T78481, M1T78481

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.95, **OD** 51.75, **OD/cover** 45.25, **Height/B+** 13.15, **Total length** 100.50, **Width/kl. 50** 11.60, **Coil bolt** M8, **Coil bolt 2** 13.50

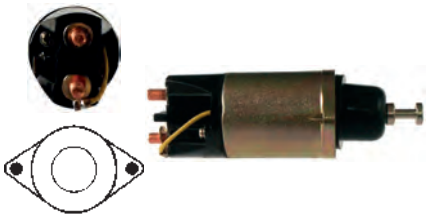


## 234114 Solenoid

**Replacing:** M373X10581

**Servicing:** 39MT, M009T70379, M9T70379

12 **V**, **B+** M12, **Kl. 50** M5, **OD** 64.00, **OD/cover** 64.85, **Total length** 222.70, **Height/B+** 25.00, **Width/kl. 50** 10.00, **Coil bolt** M12, **Coil bolt 2** 17.00, **No./terminals** 4



## 234291 Solenoid

**Replacing:** M371X22471

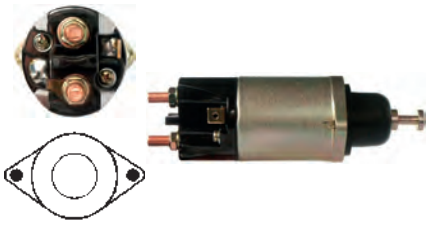
**Servicing:** M3T67281

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.10, **OD/cover** 54.60, **Total length** 179.00, **Height/B+** 20.65, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 20.65, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



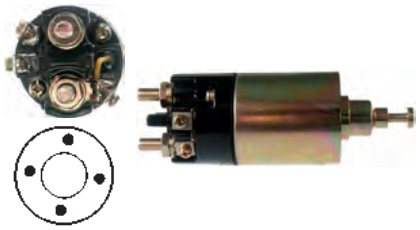
## 234292 Solenoid

**Replacing:** M371X22371, M371X22071

**Servicing:** M3T90271, M3T90272, M3T90273

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.00, **OD/cover** 54.25, **Total length** 180.20, **Height/B+** 18.10, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 19.90, **No./terminals** 3

*Cap: HC-CARGO 137870.*



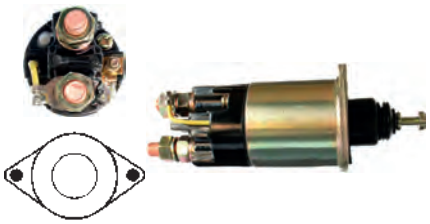
## 234545 Solenoid

**Replacing:** M373X02072, M00373X02072

**Servicing:** M6T20071, M6T20471

12 **V**, **B+** M10, **Kl. 50** 9.40, **OD** 63.90, **OD/cover** 63.55, **Total length** 189.65, **Height/B+** 24.50, **Width/kl. 50** 13.25, **Coil bolt** M10, **Coil bolt 2** 24.50

*5 terminals.*

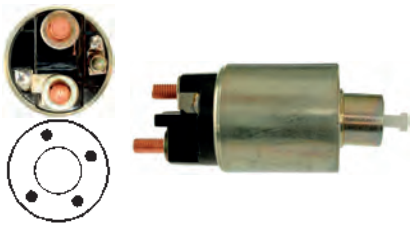


## 234723 Solenoid

**Replacing:** M371X22571

**Servicing:** M003T67771, M3T66572, M3T67771

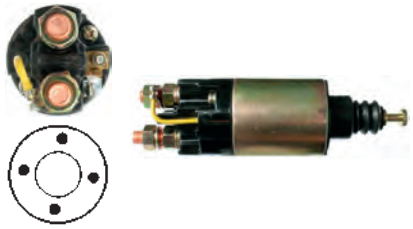
12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.00, **OD/cover** 54.50, **Total length** 185.30, **Height/B+** 25.45, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 20.55, **No./terminals** 3



## 235100 Solenoid

**Servicing:** M000T86181, M000T87881, M000T91581, M001T85681, M001T85682, M001T85781, M001T85981, M00T87881, M0T86181, M0T87881

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.40, **Total length** 129.00, **Height/B+** 16.00, **Width/kl. 50** 11.50, **Coil bolt** M8, **Coil bolt 2** 13.50, **No./terminals** 3

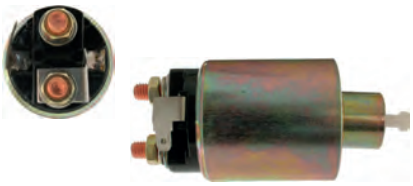


## 235103 Solenoid

**Replacing:** M373X05671

**Servicing:** M3T65071, M5T65071, ME077044

12 **V**, **B+** M12, **Kl. 50** M5, **OD** 63.90, **Total length** 224.15, **Height/B+** 38.35, **Width/kl. 50** 13.15, **No./terminals** 3

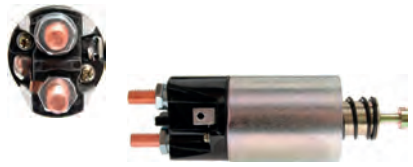


## 235210 Solenoid

**Servicing:** M000T36371, M003T42781, M003T42781ZC, M003T43381, M003T43481, M0A01901, M0T36371, M1T73383ZC, M3T42781, M3T42781ZC

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.37, **OD/cover** 47.20, **Total length** 101.37, **Height/B+** 14.73, **Coil bolt** M8, **Coil bolt 2** 14.19, **No./terminals** 3

*Cap: HC-CARGO 235384.*



## 235385 Solenoid

**Replacing:** M372XB0571

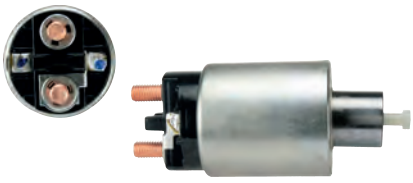
**Servicing:** 34MT TYPE 500

12 **V**, **B+** M10, **Kl. 50** M5S, **OD** 55.20, **Total length** 177.00, **Height/B+** 18.60, **Coil bolt** M10, **Coil bolt 2** 18.60, **No./terminals** 3

## 235495 Solenoid

**Servicing:** M000T45071ZT, M000T45371ZT, M002T13081, M0T45071ZT, M0T45371, M0T45371ZT, M2T13081

12 **V**, **B+** M8/19.50, **Kl. 50** M5/9.50, **OD** 51.50, **Total length** 108.50, **Height/B+** M8/19.50, **Width/kl. 50** M5/9.50



## 235847 Solenoid

**Replacing:** M371XC1473, M371X96575, M371X74371, M371X72473

**Servicing:** M000T70381, M000T81181, M000T84381, M001T70483, M001T73383, M001T84883, M001T84883ZC, M001T84884, M002T44081

12 **V**, **B+** M8, **OD** 51.50, **OD/cover** 45.30, **Total length** 91.00, **Coil bolt** M8, **No./terminals** 2

## 236015 Solenoid

**Replacing:** M371X97873

**Servicing:** M003T44481, M3T44481, MD335584

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.29, **Total length** 90.35, **Height/B+** 13.76, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## 236780 Solenoid

**Replacing:** M371XC3775

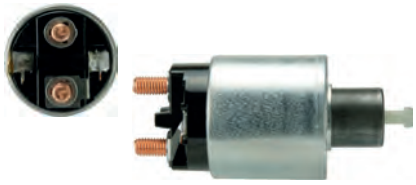
**Servicing:** M000T87681, M000T90981, M0T87681, M0T90981

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.07, **Total length** 120.00, **Height/B+** 16.00, **Coil bolt** M8, **Coil bolt 2** 14.01, **No./terminals** 3

## 237498 Solenoid

**Servicing:** M000T84881, M000T84881ZC, M000T84882ZC, M001T84381ZC, M002T88471, M002T88472, M002T88473, M0T84881, M0T84881ZC

12 **V**, **No./terminals** 3



## 237861 Solenoid

**Replacing:** M371XD1171

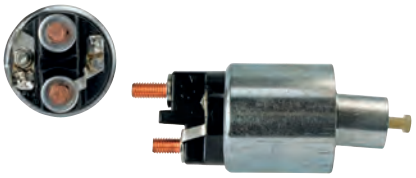
**Servicing:** M000T21671, M000T36071, M000T36071ZE, M000T45271, M000T45271ZT, M0T36071, M0T36071ZE, M0T45271, M0T45271ZT, M0T45275ZT

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.40, **Total length** 114.45, **Height/B+** 14.00, **No./terminals** 3

## 239823 Solenoid

**Servicing:** M001T30071, M001T30072, M001T30171, M001T30172, M001T30173, M1T30071, M1T30072, M1T30073, M1T30171, M1T30172, M1T30173

12 **V**, **B+** M8, **Kl. 50** M6-4.70, **OD** 51.24, **Total length** 120.00, **Height/B+** 12.14, **Width/kl. 50** M6, **No./terminals** 3



## 330176 Solenoid

**Servicing:** M000T22471, M000T22472, M0T22471, M0T22472, M0T22473

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 51.20, **OD/cover** 45.13, **Total length** 109.00, **Height/B+** 19.41, **Coil bolt** M8, **Coil bolt 2** 11.76, **No./terminals** 3

## 330363 Solenoid

**Servicing:** M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.00, **Total length** 122.00, **Height/B+** 13.97, **Width/kl. 50** 13.27, **Coil bolt** M8, **Coil bolt 2** 13.20, **No./terminals** 3

## 330415 Solenoid

**Servicing:** M002T85671, M002T85672, M2T85671, M2T85672

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.32, **Total length** 129.06, **Height/B+** 11.65

## 330581 Solenoid

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 49.97, **Total length** 126.83, **Switch dim.** 8.80, **Height/B+** 15.60, **Coil bolt** M8, **Coil bolt 2** 13.40, **No./terminals** 3

## 331523 Solenoid

**Servicing:** M000T45171, M000T45171ZT, M0T45171, M0T45171ZT

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 51.20, **Total length** 108.69, **Height/B+** 11.86, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 10.95, **No./terminals** 3

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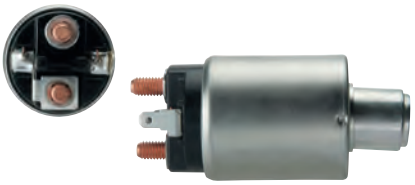
## 331751 Solenoid

**Servicing:** M000T21471, M0T21471

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 51.20, **OD/cover** 49.40, **Total length** 127.50, **Switch dim.** 7.80, **Height/B+** 20.00, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3



## 331786 Solenoid

**Replacing:** M371XD0971

**Servicing:** M000T30771, M0T30771, M0T35171, M414X00474, MR994325

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.23, **Total length** 115.76, **Height/B+** 14.41, **Width/kl. 50** 45.00, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 3

**NEW PRODUCT**
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## 331868 Solenoid

**Servicing:** M000T35471, M0T35471

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.15, **OD/cover** 49.70, **Total length** 130.00, **Switch dim.** 7.80, **Height/B+** 19.00, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

**331891** Solenoid

**Servicing:** M002T85871, M2T85871

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.20, **Total length** 127.23, **Height/B+** 11.25, **Coil bolt** M8, **Coil bolt 2** M8, **No./terminals** 3

**331941** Solenoid

**Servicing:** M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M1T93071, M1T93171, M1T93371, M1T93371ZC, M1T93571

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.20, **Total length** 123.00, **Height/B+** 15.00, **Coil bolt** M8, **Coil bolt 2** 14.50, **No./terminals** 3

**332238** Solenoid

**Servicing:** M000T86781, M0T86781

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 51.30, **Total length** 126.35, **Height/B+** 12.30, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 11.45, **No./terminals** 3

**332328** Solenoid

**Servicing:** M001T80681, M1T80681

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 51.15, **OD/cover** 49.40, **Switch dim.** 7.80, **Height/B+** 20.00, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3

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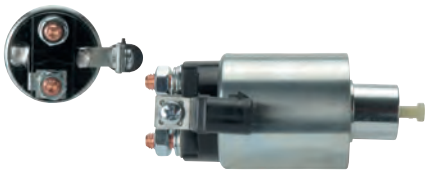
**332550** Solenoid

**Servicing:** M000T32571ZE, M000T32572ZE, M0T32571, M0T32571ZE, M0T32572ZE

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.19, **Total length** 115.66, **Height/B+** 14.00, **Coil bolt** M8, **Coil bolt 2** 13.50, **No./terminals** 3



**333785** Solenoid

12 **V**, **B+** M8, **OD** 51.20, **OD/cover** 45.00, **Total length** 89.20, **Height/B+** 16.00, **Coil bolt** M8, **Coil bolt 2** 16.00, **No./terminals** 3

NEW PRODUCT
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**333786*** Solenoid

NEW PRODUCT
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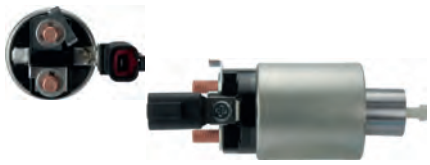
**333787** Solenoid

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.20, **OD/cover** 45.00, **Total length** 121.00, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 15.50, **No./terminals** 3



**333788** Solenoid

**Replacing:** M371XC4075, M371X95275

**Servicing:** M000T60181, M000T60181A, M001T68681, M0T60181, M0T60181A, M1T68681, MT60181

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.50, **OD/cover** 45.50, **Total length** 121.50, **Height/B+** 30.00, **Width/kl. 50** 45.00, **Coil bolt** M8, **No./terminals** 3

NEW PRODUCT
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**333790** Solenoid

12 **V**, **B+** M8, **OD** 51.20, **OD/cover** 45.00, **Total length** 121.00, **Height/B+** 14.80, **Coil bolt** M8, **Coil bolt 2** 14.80, **No./terminals** 3

**333791** Solenoid

12 **V**, **B+** M8, **OD** 51.50, **OD/cover** 45.35, **Total length** 114.00, **Height/B+** 14.50, **Coil bolt** M8, **Coil bolt 2** 14.50, **No./terminals** 3

**333848** Solenoid

**Replacing:** MG122565

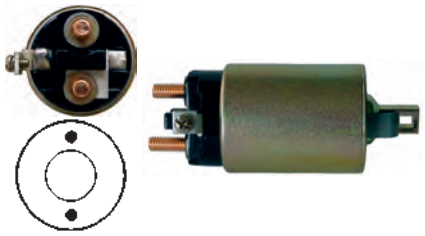
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 55.30, **Total length** 135.00, **Coil bolt** M8, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 24 V

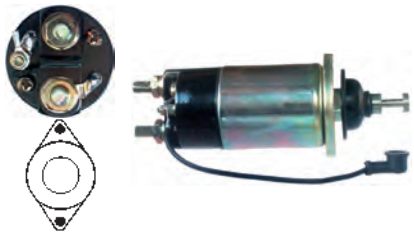


### 132591 Solenoid

**Replacing:** ME700984, ME700316, ME700135, ME700119, M372X11171, M372X11071, M372X10971, M372X10372, M372X10371

**Servicing:** 34466-15101, 34466-15102, M002T64271, M002T64371, M002T64373, M002T65271, M002T65272, M002T66871, M002T66872

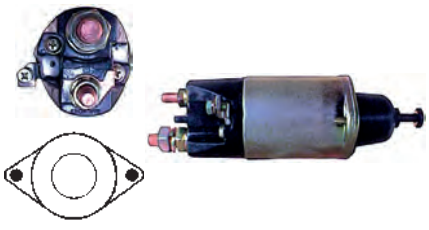
24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 48.75, **Total length** 138.40, **Height/B+** 22.00, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 17.10, **No./terminals** 3
*Cap: HC-CARGO 230914.*



### 134413 Solenoid

**Replacing:** ME023103

24 **V**, **B+** M10, **OD** 62.60, **OD/cover** 61.70, **Total length** 203.85, **Height/B+** 23.80, **Coil bolt** M10, **Coil bolt 2** 23.00, **No./terminals** 3
*Cap: HC-CARGO 137869.*

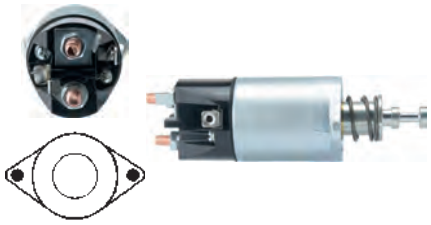


### 136142 Solenoid

**Replacing:** ME700278, M371X21571

**Servicing:** M003T95071, M003T95073, M003T95081, M003T95082, M004T55076, M3T95071, M3T95073, M3T95081, M3T95082, M4T55076, ME057985

24 **V**, **B+** M10, **Kl. 50** 9.40, **OD** 55.50, **OD/cover** 53.25, **Total length** 190.70, **Height/B+** 28.30, **Width/kl. 50** 13.35, **Coil bolt** M8, **Coil bolt 2** 18.20, **No./terminals** 3
*Cap: HC-CARGO 234318.*

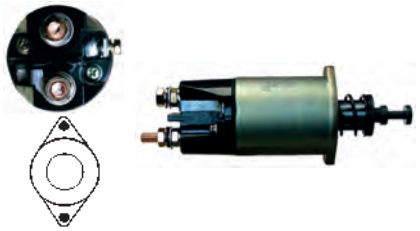


### 136344 Solenoid

**Replacing:** ME700215, M371X20672, M371X20671, M371X20271

**Servicing:** M002T69171, M003T56174, M003T56181, M003T56182, M003T56183, M003T56272, M2T69171, M2T78071, M2T78271, M3T56174

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.10, **OD/cover** 54.20, **Total length** 174.35, **Height/B+** 13.80, **Width/kl. 50** 11.75, **Coil bolt** M8, **Coil bolt 2** 13.85, **No./terminals** 3
*Cap: HC-CARGO 137870.*

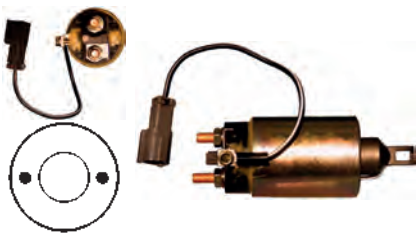


### 138418 Solenoid

**Replacing:** ME701290, ME700035, M371X20572, M371X20571

**Servicing:** M003T56071, M003T56072, M003T56074, M003T56082, M003T56084, M005T50176, M3T56071, M3T56072, M3T56074, M3T56076

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.30, **OD/cover** 53.85, **Total length** 189.55, **Height/B+** 25.65, **Width/kl. 50** 12.95, **Coil bolt** M8, **Coil bolt 2** 15.10, **No./terminals** 3

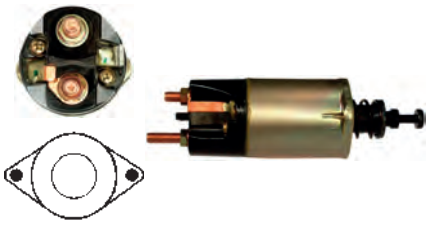


### 139824 Solenoid

**Replacing:** ME753433, ME701490, M372X13071, M372X11871

**Servicing:** M008T80071, M008T80071A, M008T80071B, M8T80071, M8T80071A, M8T80071B, ME012995, ME013008, ME014418

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.25, **OD/cover** 48.55, **Total length** 149.00, **Height/B+** 21.00, **Width/kl. 50** 12.00, **Coil bolt** M8, **Coil bolt 2** 18.00, **No./terminals** 3

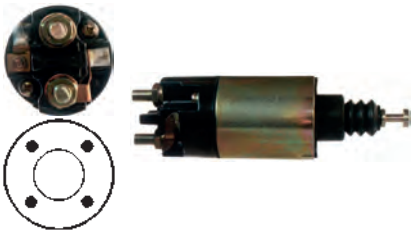


### 231780 Solenoid

**Replacing:** ME700853, M371X21071

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78383, M2T78372, M2T78381, M2T78382, M2T78383, ME087590

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 54.00, **Total length** 189.75, **Height/B+** 27.90, **Width/kl. 50** 14.70, **Coil bolt** M8, **Coil bolt 2** 15.70, **No./terminals** 3

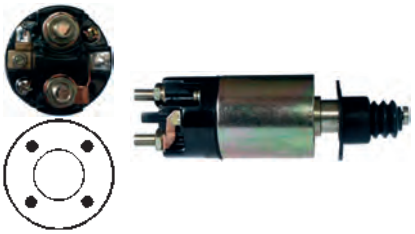


### 234319 Solenoid

**Replacing:** ME700828, ME700174, M373X05371, M373X05171, M373X04771, M373X04571

**Servicing:** M004T95076, M004T95082, M4T95075, M4T95076, M4T95081, M4T95082, M4T95681, M5T50071, M5T50089, M5T50177, M5T50179

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 64.00, **OD/cover** 63.60, **Total length** 210.25, **Height/B+** 23.30, **Width/kl. 50** 14.30, **Coil bolt** M10, **Coil bolt 2** 24.10, **No./terminals** 3
*Cap: HC-CARGO 234321.*



### 234320 Solenoid

**Replacing:** ME700196, M373X06971, M373X04071

**Servicing:** M004T55076, M004T55077, M009T80771, M4T55076, M4T55077, M9T80771

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 63.90, **OD/cover** 63.40, **Total length** 211.40, **Height/B+** 24.55, **Width/kl. 50** 14.20, **Coil bolt** M10, **Coil bolt 2** 24.50, **No./terminals** 3



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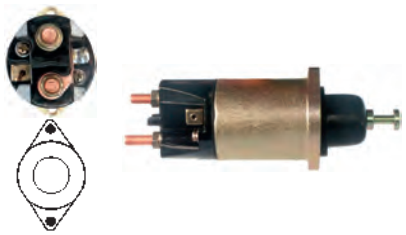
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

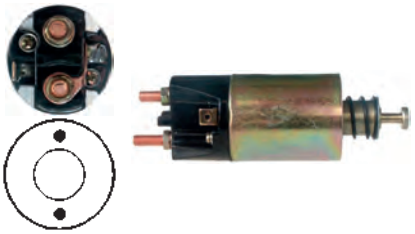


## 234482 Solenoid

**Replacing:** ME700379, M371X20871

**Servicing:** M002T69081, M002T78481, M2T69081, M2T78481, M2T78482, M3T58371, ME013390, ME013391

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.00, **OD/cover** 54.40, **Total length** 185.30, **Height/B+** 25.25, **Width/kl. 50** 9.95, **Coil bolt** M8, **Coil bolt 2** 20.75, **No./terminals** 3

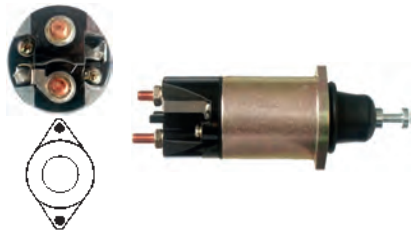


## 234484 Solenoid

**Replacing:** M371XB2671, M371XB2271, M371XB2270

**Servicing:** M8T60171, M8T87371

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.10, **OD/cover** 54.50, **Total length** 174.75, **Height/B+** 23.70, **Width/kl. 50** 10.70, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3

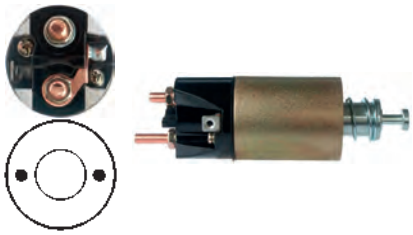


## 234871 Solenoid

**Replacing:** ME700307, M371X20171

**Servicing:** M004T50073, M4T50073

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 54.40, **Total length** 184.00, **Height/B+** 21.55, **Width/kl. 50** 11.25, **Coil bolt** M8, **Coil bolt 2** 16.95, **No./terminals** 3



## 234872 Solenoid

**Replacing:** ME701443, ME701442, M371XB2571, M371XB2371, M371XB2171

**Servicing:** M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T85071B, M008T85571, M009T61071, M009T61071A, M8T60071

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.25, **OD/cover** 54.45, **Total length** 180.25, **Height/B+** 28.20, **Width/kl. 50** 11.60, **Coil bolt** M8, **Coil bolt 2** 17.25, **No./terminals** 3

## 234875 Solenoid

**Replacing:** M373X05071, M371X05071

**Servicing:** M004T95481, M4T95478, M4T95479, M4T95480, M4T95481

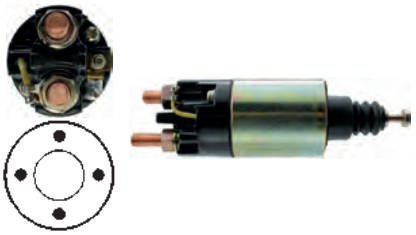
24 **V**, **B+** M10, **Kl. 50** M5, **OD** 64.00, **OD/cover** 63.20, **Total length** 217.80, **Height/B+** 29.60, **Width/kl. 50** 16.60, **Coil bolt** M10, **Coil bolt 2** 30.65, **No./terminals** 4

## 237102 Solenoid

**Replacing:** M371XB4171

**Servicing:** 34MT, M008T62671, M009T60371, M009T60471, M009T60671, M009T60672, M009T61171, M009T61473, M009T61474, M009T61571

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 55.15, **Total length** 176.50, **Height/B+** 18.50, **Coil bolt** M10, **Coil bolt 2** 20.00, **No./terminals** 3



## 237845 Solenoid

**Replacing:** M373X07671

**Servicing:** 39MT, M009T80472, M009T80473, M009T82479, M009T83671, M009T83672, M9T80472, M9T80473, M9T82479, M9T83671, M9T83672

24 **V**, **B+** M12, **Kl. 50** M5, **OD** 64.00, **OD/cover** 63.50, **Total length** 224.65, **Height/B+** 38.10, **Width/kl. 50** 13.55, **Coil bolt** M12, **Coil bolt 2** 31.45, **No./terminals** 3

## 330348 Solenoid

**Servicing:** M008T61671, M009T61671, M8T61671, M9T61671

24 **V**, **B+** M10, **Kl. 50** M6, **OD** 55.49, **OD/cover** 54.70, **Total length** 180.00, **Height/B+** 18.29, **Coil bolt** M10, **Coil bolt 2** 17.92, **No./terminals** 3

**NEW PRODUCT**
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## 335219 Solenoid

24 **V**, **B+** M12, **Kl. 50** M5, **OD** 55.30, **OD/cover** 58.00, **Total length** 206.50, **Height/B+** 34.50, **Coil bolt** M10, **Coil bolt 2** 21.00, **No./terminals** 3

## Safety Switches

### 12 V

## 237517 Safety Switch

**Servicing:** M009T61171, M9T61171

24 **V**, **Total length** 63.00



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#Available while stock last, * Program development.

**330351** Safety Switch

**Servicing:** M009T61671, M9T61671

24 **V**, **Kl. 50** M5, **OD** 35.68, **Total length** 67.28, **Width/kl. 50** 13.10

**NEW PRODUCT**
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**333789** Solenoid

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.20, **OD/cover** 45.00, **Total length** 121.00, **Height/B+** 14.25, **Coil bolt** M8, **Coil bolt 2** 14.25, **No./terminals** 3

## 24 V

**233891** Safety Switch

**Replacing:** U001X31272, U001X06096, ME701689

**Servicing:** M008T85071B, M2T69381, M8T61171, M8T85071, M8T85071A, M8T85071B, ME012994, ME013007, ME017628

24 **V**, **Intermittent load** 100 Amp., **OD** 34.55, **Total length** 61.65, **Seconds** 3

**237090** Safety Switch

**Servicing:** M009T60471, M009T60671, M009T60672, M009T61571, M9T60471, M9T60671, M9T60672, M9T61571

24 **V**, **OD** 34.55, **Total length** 60.00, **No./terminals** 4

**332139** Safety Switch

**Servicing:** M009T61473, M009T61474, M009T62172, M009T62173, M009T64171, M009T64171ZT, M009T66371, M9T61473, M9T61474, M9T62172

24 **V**, **Kl. 50** M6, **OD** 35.70, **Total length** 80.00, **No./terminals** 4

**Alternative no.:** 333313

**333313** Safety switch

**Servicing:** M9T61474

24 **V**, **OD** 41.00, **Total length** 65.00, **No./terminals** 4

**Alternative no.:** 332139

**333846** Safety Switch

**Replacing:** U001T32974, 333846

**Servicing:** M009T62671, M9T62671

24 **V**, **Kl. 50** M5, **OD** 48.80, **Total length** 78.80, **No./terminals** 4

## Solenoid Parts

### Solenoid Caps

Pkg. 5

**133113** Solenoid Cap

**Servicing:** M001T70481, M001T70481ZC, M001T70482, M001T70483, M001T70483ZC, M001T70485, M001T70485A, M003T20081, M003T20381

**OD** 49.50, **No./terminals** 4, **Bracket type** Crimp
*HC-CARGO 132095.*

Pkg. 5

**133273** Solenoid Cap

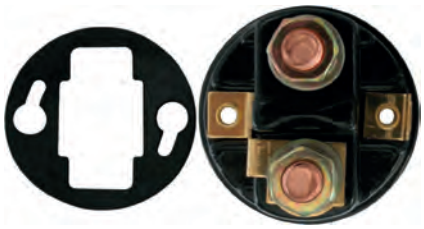
**Servicing:** 1810A050, 1810A050R, 1810A053, M000T71681, M000T80381, M000T80881, M000T81281, M000T81283, M000T81284, M000T91381

**OD** 49.45, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 131802, 133053.*

**133284** Solenoid Cap

**Servicing:** M000T80081, M001T30271, M001T60185, M001T60581, M001T61181, M001T70281, M001T70281ZC, M001T70283, M001T70283ZC

**OD** 49.30, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 132763, 138012.*



**133285** Solenoid Cap

**Servicing:** M000T71681, M001T60081, M001T60181, M001T60185, M001T70981, M001T70982, M001T70982A, M001T71381, M001T71382

**OD** 49.25, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 133049.*

**133286** Solenoid Cap

**Servicing:** 32A66-10101, 34466-15101, 34466-15102, M002T54571, M002T54572, M002T54871, M002T56471, M002T56472, M002T56475

**OD** 53.20, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 132472, 133050, 139586.*



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Pkg. 5

**133287** Solenoid Cap

**Servicing:** M000T20171, M000T21671, M000T70381, M000T80081, M000T80281ZC, M000T81181, M000T81681, M000T81981, M000T83981

**OD** 49.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132917, 133052, 133288, 138618, 139408, 231977.*

Pkg. 5

**134625** Solenoid Cap

**Servicing:** M001T77781, M002T51082, M002T51083, M002T51085, M002T51805, M002T54371, M002T54372, M002T54771, M002T57273, M002T57371

**OD** 53.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132471, 132473, 230204.*

**134626** Solenoid Cap

**Servicing:** M002T54871, M002T54881, M002T54882, M002T56171, M002T56181, M002T56182, M002T56185, M002T56272, M002T57271, M002T60171

**OD** 53.55, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 235077, 138820, 231981.*

**134915** Solenoid Cap

**Servicing:** M001T70481, M001T70481ZC, M001T70482, M001T70483, M001T70483ZC, M001T70485, M001T70485A, M002T48081, M1T70481

**OD** 49.25, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 133289.*

**137797** Solenoid Cap

**Servicing:** M003T32782D, M371X63171, M371X63271, M371X63571, M3T32782D

**OD** 49.45, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 135590.*

**137870** Solenoid Cap

**Servicing:** M371X20171, M371X20271, M371X20671, M371X20672, M371X22071

**OD** 54.00, **No./terminals** 3
*HC-CARGO 136344.*

**137931** Solenoid Cap

**Servicing:** M001T60281, M1T60281, M371X92575

**OD** 49.15, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 137930.*

**138821** Solenoid Cap

**Servicing:** M001T72281A, M001T72285, M001T72781A, M001T72781B, M001T78881, M1T72281A, M1T72285, M1T72781A, M1T72781B, M1T78881

**OD** 49.50, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138011.*

**230385** Solenoid Cap

**Servicing:** M000T80381, M000T85981, M002T37281, M0T80381, M0T85981, M2T37281, M371X93975, MD362207

**OD** 49.00, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139202.*

**230914** Solenoid Cap

**Servicing:** M008T80071, M008T80071A, M008T80071B, M372X10271, M8T80071, M8T80071A, M8T80071B, ME012995, ME013008, ME014418

**OD** 53.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132591.*

Pkg. 5

**231107** Solenoid Cap

**Servicing:** M000T70281, M000T70285, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M001T72086A, M001T72087A

**OD** 49.60, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 138012, 231454.*

**231458** Solenoid Cap

**Servicing:** M003T90072, M3T90072

**OD** 53.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 231457.*



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#Available while stock last, * Program development.

**231860** Solenoid Cap

**Servicing:** M000T86081, M002T80582, M002T84771, M002T87671, M0T86081, M2T80582, M2T84771, M2T87671

**OD** 49.65, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 233709.*

Pkg. 5

**232225** Solenoid Cap

**Servicing:** M001T74281, M001T74281ZC, M001T74283, M001T74283ZC, M001T74286ZC, M001T74287ZC, M001T79481, M001T79482, M001T84381ZC

**OD** 49.55, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 137813.*

**233927** Solenoid Cap

**Servicing:** 1810A050, 1810A050R, 1810A053, M000T32771, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T87071

**OD** 49.20, **No./terminals** 3, **Bracket type** Crimp
*HC-CARGO 139537.*

**234321** Solenoid Cap

**Servicing:** M373X04071, M373X04571, M373X05171

**OD** 63.75, **No./terminals** 3
*HC-CARGO 234319, 234320.*

Pkg. 5

**238169** Solenoid Cap

**Servicing:** M002T74171, M2T74171, MD140190, MD164976

**No./terminals** 3

**239824** Solenoid Cap

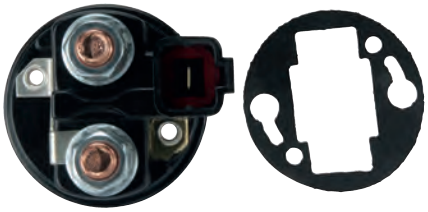
**Servicing:** M000T86781, M0T86781

**OD** 49.50, **No./terminals** 3

**331698** Solenoid Cap

**Servicing:** M003T43381, M3T43381, MD192227

**OD** 49.40, **No./terminals** 3



**332551** Solenoid Cap

**OD** 49.43, **No./terminals** 3, **Bracket type** Closed

Pkg. 5

**333935** Solenoid Cap

**Servicing:** M000T45071ZT, M000T45371ZT, M002T13081, M0T45071ZT, M0T45371, M0T45371ZT, M2T13081

**OD** 50.00, **No./terminals** 3

## Moving Contacts

Pkg. 10

**133275** Moving Contact

**Servicing:** M000T71681, M000T80381, M000T81181, M000T86481, M000T91381, M001T30072, M001T30271, M001T60081, M001T60281, M001T60285A

**Length** 26.00, **Shaft measurement** 26.00, **Thickness** 2.60, **Width** 16.00/11.00

Pkg. 10

**134673** Contact Plate

**Servicing:** 32A66-10101, M001T60285, M001T77281, M002T54571, M002T54572, M002T54871, M002T54881, M002T54882, M002T56171, M002T56181

**Length** 30.20, **Thickness** 2.95, **Width** 17.55

Pkg. 10

**135017** Contact Plate

**Servicing:** M002T50171, M002T52071, M003T21281, M003T21282, M003T21781, M003T21881, M003T21882, M003T22581, M003T22582, M003T25781

**Length** 30.00, **Thickness** 3.00, **Width** 14.00

Pkg. 5

**135106** Moving Contact

**Servicing:** M002T10171, M002T23181, M2T10171, M2T23181, M370X50171, M370X50181, M370X50571, M370X50581, M370X50971, M371X00181

**Length** 31.30, **Shaft measurement** 33.65, **Thickness** 2.85, **Width** 14.20

Pkg. 10

**135108** Moving Contact

**Servicing:** M372X02371, M372X04171, M372X06171, M372X10171, M372X10371

**Length** 31.00, **Shaft measurement** 39.00, **Thickness** 2.80, **Width** 14.50

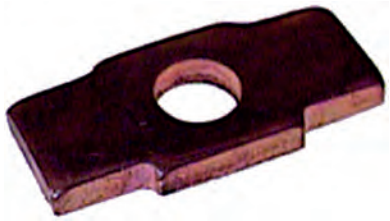
Pkg. 10

**135137** Contact Plate

**Servicing:** 1810A050, 1810A050R, 1810A053, M000T20171, M000T21471, M000T21671, M000T22471, M000T36071, M000T80285, M000T80285A

**Length** 30.25, **Thickness** 3.00, **Width** 11.15/14.10

Pkg. 10



**136858** Contact Plate

**Replacing:** 136858

**Length** 30.00, **Width** 14.10

Pkg. 5

**139955** Moving Contact

**Servicing:** 1810A050, 1810A050R, 1810A053, M000T20171, M000T32771, M000T45071ZT, M000T45371ZT, M000T71681, M000T80281A, M000T80281B

**Length** 29.00, **Shaft measurement** 28.80, **Thickness** 2.55, **Width** 16.00/11.00

Pkg. 5

**233166** Moving Contact

**Servicing:** M000T21671, M000T22471, M000T35471, M0T22471, M0T22473, M0T35471

**Length** 30.00, **Shaft measurement** 23.00, **Thickness** 2.60, **Width** 16.00

Pkg. 10

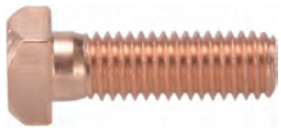
**235099** Moving Contact

**Servicing:** 1810A050R, M001T80681, M008T71371ZE, M008T76071, M008T76072, M008T76072ZE, M1T80681, M8T71371ZE, M8T75371, M8T76071

**Length** 31.00, **Shaft measurement** 29.20, **Thickness** 2.60, **Width** 14.00

## Fixed Contacts

Pkg. 10



**332565** Contact Bolt

**Servicing:** 1810A050R, M000T20171, M000T21671, M000T22471, M000T84881, M000T84881ZC, M000T87681, M001T30271, M001T80081, M001T80082

**Total length** 28.15, **Length/rear collar** 23.15, **Thread length** 19.00, **Thread size** M8

Pkg. 10

**332566** Bolt

**Servicing:** M000T22471, M001T80081, M1T80082, M001T80082, M002T85271, M002T88471, M002T88472, M002T88473, M0T22473, M1T80081

**Total length** 40.50, **Length/rear collar** 34.90, **Thread length** 30.80, **Thread size** M8

## Various

Pkg. 10

**233064** Screw

**Servicing:** 32A66-10101, M008T62671, M008T80071, M008T80071A, M008T80071B, M009T61473, M009T61474, M009T61971, M009T62172

**Thread** M6, **Total length** 46.25, **Thread length** 31.45

Pkg. 25

**235066** Terminal Switch

**Total length** 37.90

**237841** Gasket

**Servicing:** M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

## Drives

**130741** Drive

**Replacing:** MD602679, MD602052, M191T34571, M191T33071, M191T31671, M191T30973, M191T30972, M191T30971

**Servicing:** M002T10171, M002T10271, M002T10471, M003T10071, M003T10271, M003T10272, M003T10372, M003T11174, M003T12572, M003T15071

**ID** 12.85, **OD** 29.15, **OD/housing** 45.40, **Total length** 60.15, **Splines A** 8, **No./teeth** 9, **Rotation** CR



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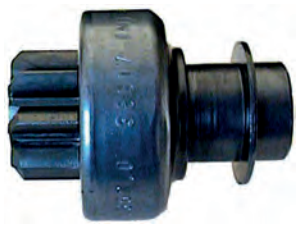
#Available while stock last, * Program development.



## 131087 Drive

**Replacing:** MD608273, MD607283, M191T35171, M191T34071, M191T33372, M191T33371, M191T30974

**Servicing:** A3T22681, M002T10171, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23081, M002T25772, M003T10672, M003T11272

**ID** 12.75, **OD** 28.10, **OD/housing** 45.00, **Total length** 61.55, **Splines A** 8, **No./teeth** 8, **Rotation** CR

## 131110 Drive

**Replacing:** MD604047

**Servicing:** MD011550, MD011553

**ID** 12.55, **OD** 29.10, **OD/housing** 46.25, **Total length** 64.00, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 131628 Drive

**Replacing:** M191T31071, M191T30371

**Servicing:** M003T10473, M003T10475, M003T10476, M3T10471, M3T10473, M3T10475, M3T10476

**ID** 12.80, **OD** 34.40, **OD/housing** 45.30, **Total length** 60.60, **Splines A** 8, **No./teeth** 11, **Rotation** CR

HC CAR GO **Best Choice**

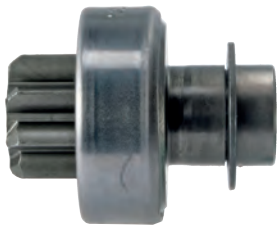
## 132005 Drive

**Replacing:** MD607894, M191T23471, M191T23071, M191T22971, M191T22771, M191T22371, M191T22071

**Servicing:** M002T30381, M002T30385, M002T30581, M002T30585, M002T30586, M002T30881, M002T32281, M002T40081, M002T41381, M002T41581

**ID** 12.00, **OD** 28.20, **OD/housing** 45.50, **Total length** 56.00, **Splines A** 8, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 132005Z



## 132005Z Drive

**Replacing:** MD607894, M191T23471, M191T23071, M191T22971, M191T22771, M191T22371, M191T22071

**Servicing:** M002T47383, M0A01901, MD335584

**ID** 12.00, **OD** 28.00, **OD/housing** 46.20, **Total length** 55.65, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 132005

## 132009 Drive

**Replacing:** M191T17071, M191T16071

**Servicing:** M001T74081, M001T74087, M001T75681, M001T84281, M001T84481, M1T74081, M1T74081A, M1T74087, M1T75681, M1T76381, M1T84281

**ID** 12.00, **OD** 29.70, **OD/housing** 45.00, **Total length** 64.00, **Splines A** 8, **No./teeth** 9, **Rotation** ACR

## 132010 Drive

**Replacing:** M191T16171

**Servicing:** M000T30471, M001T70381, M001T70381A, M001T70387, M0T30471, M0T71481, M0T81581, M0T84081, M1T70381, M1T70381A, M1T70387

**ID** 12.00, **OD** 28.00, **OD/housing** 48.00, **Total length** 64.00, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** ACR

## 132011 Drive

**Replacing:** M191X18171, M191T12471, M191T12071, M191T12070

**Servicing:** 1810A011, M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T71786, M000T80081, M000T80581

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 50.20, **Splines A** 8, **No./teeth** 8, **Rotation** CR

*Shaft set/clutch set: HC-CARGO 138579, 235285, 239361.*

## 132012 Drive

**Replacing:** M191X13271, M191T13271, M191T12171

**Servicing:** M000T80381, M001T70981, M001T70981A, M001T70982, M001T70982A, M001T70985, M001T71081, M001T71281, M001T71281A

**ID** 12.00, **OD** 31.55, **OD/housing** 46.00, **Total length** 51.80, **Splines A** 8, **No./teeth** 10, **Rotation** CR



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#Available while stock last, * Program development.

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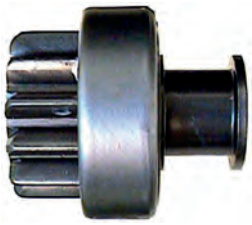
**132014** Drive

**Replacing:** M191T16271

**Servicing:** M000T80881, M001T70781, M1T77081, M001T75581, M001T75581ZC, M001T77081, M0T80881, M1T70781, M1T75581, M1T75581ZC

**ID** 12.00, **OD** 37.35, **OD/housing** 48.00, **Total length** 75.00, **Splines A** 8, **No./teeth** 12, **Rotation** ACR



**132765** Drive

**Replacing:** M191T58971

**Servicing:** M005T22175, M005T22176, M5T22175, M5T22176

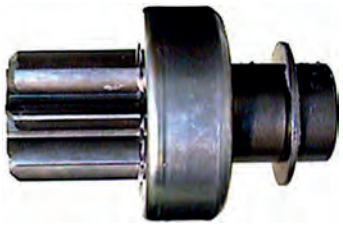
**ID** 14.00, **OD** 48.00, **OD/housing** 56.50, **Total length** 65.65, **Splines A** 10, **No./teeth** 12, **Rotation** CR

**132822**# Drive

**Replacing:** M191T34771

**Servicing:** M003T19771, M003T19871, M3T39881, M003T24181, M003T39781, M003T39881, M3T19771, M3T19871, M3T24181, M3T39781

**ID** 12.85, **OD** 25.20, **OD/housing** 46.00, **Total length** 60.70, **Splines A** 8, **No./teeth** 9, **Rotation** CR

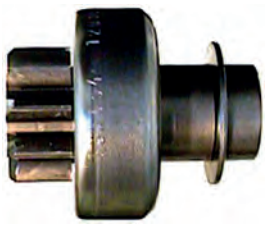


**133268** Drive

**Replacing:** M191T26171

**Servicing:** M002T30681, M002T30786, M2T30686, M002T37081, M002T49282, M002T49283, M003T37081, M003T48382, M2T30681, M2T30685

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 70.35, **Splines A** 8, **No./teeth** 8, **Rotation** ACR



**133454** Drive

**Replacing:** M191T23171, M191T22871, M191T22271

**Servicing:** M002T30481, M002T41581, M3T33481, M002T42381, M003T33481, M003T49981, M003T49982, M2T30481, M2T41581, M2T42381

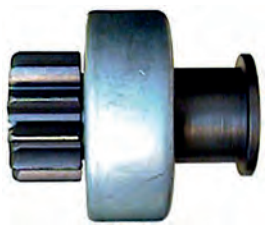
**ID** 12.00, **OD** 29.00, **OD/housing** 46.00, **Total length** 55.50, **Splines A** 8, **No./teeth** 9, **Rotation** CR

**133480** Clutch

**Replacing:** M357T75671

**Servicing:** M002T23685, M003T19971, M003T26685, M2T23685, M3T19971, M3T26685

**OD/housing** 60.00, **Total length** 98.00, **No./teeth** 21, **Rotation** ACR



**133520** Drive

**Replacing:** M191Y57081, M191T57083, M191T57081, M191T57072

**Servicing:** M5T22371, M5T27672

**ID** 14.30, **OD** 34.18, **OD/housing** 56.00, **Total length** 65.85, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**133628** Clutch

**Replacing:** M357X86371, M357X83374, M357T75371

**Servicing:** M002T92071, M002T92071A, M2T92171, M002T92171, M002T92172, M002T92172A, M2T78571, M2T78571A, M2T92071, M2T92071A

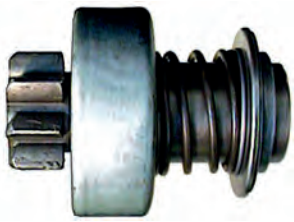
**OD** 33.00, **Total length** 104.00, **Splines A** 20, **No./teeth** 10

**134918** Drive

**Replacing:** M191T26771

**Servicing:** M003T33081, M3T33081

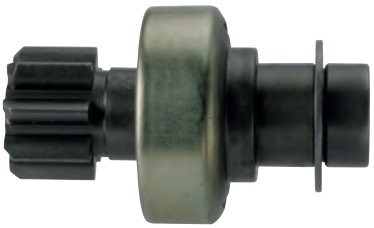
**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 56.20, **Splines A** 8, **No./teeth** 8, **Rotation** ACR



**134925** Drive

**Replacing:** MD618887

**ID** 12.00, **OD** 27.80, **OD/housing** 46.85, **Total length** 63.00, **Splines A** 10, **No./teeth** 8, **Rotation** CR

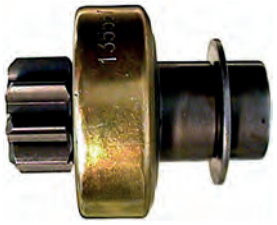


**134960**# Drive

**Replacing:** M191T36571

**Servicing:** M002T23181, M003T22181, M003T22185, M003T22281, M003T27781, M2T23181, M3T22181, M3T22185, M3T22281, M3T27781

**ID** 12.80, **OD** 28.00, **OD/housing** 45.45, **Total length** 73.80, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** ACR



**135567** Drive

**Replacing:** M191T22471

**Servicing:** M002T13081, M002T13281, M002T13581, M002T48381, M003T32985, M003T32986, M003T32988, M003T32989, M003T32991, M2T13081

**ID** 12.00, **OD** 25.25, **OD/housing** 46.00, **Total length** 55.00, **Splines A** 8, **No./teeth** 9, **Rotation** CR



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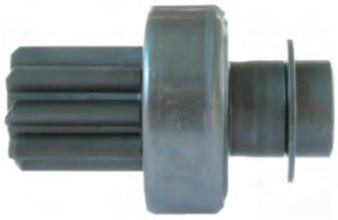
#Available while stock last, * Program development.



## 135572 Drive

**Replacing:** M191T22571

**Servicing:** M002T20181, M002T20181D, M3T48281A, M002T42981, M003T48281A, M2T20181, M2T20181D, M2T42981, M2T42985, M3T48281

**ID** 12.00, **OD** 28.00, **OD/housing** 46.35, **Total length** 70.50, **Splines A** 8, **No./teeth** 8, **Rotation** CR

## 135581 Drive

**Replacing:** M191T23371

**Servicing:** M003T27686, M003T27686H, M3T17686H, M003T27686N, M003T30581, M003T30581H, M003T33981H, M003T37481, M003T42681

**ID** 12.00, **OD** 32.00, **OD/housing** 45.00, **Total length** 55.60, **Splines A** 8, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333860

## 135721 Clutch

**Replacing:** M357X77571, M357X77271

**Servicing:** M002T24181, M002T25083, M002T25281, M002T25282, M002T25581, M002T25681, M002T25681G, M2T24082, M2T24181, M2T24281

**OD/housing** 57.00, **Total length** 114.40, **Splines A** 8, **No./teeth** 20, **Rotation** ACR

## 136145 Drive

**Replacing:** M191X13571, M191T13571

**Servicing:** M001T60381, M1T60381

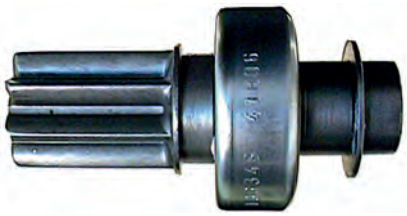
**ID** 10.70, **OD** 29.15, **OD/housing** 46.25, **Total length** 78.50, **Splines A** 8, **No./teeth** 9, **Rotation** CR

## 136229 Drive

**Replacing:** M191T12571

**Servicing:** M001T72981, M001T72981A, M001T72985, M001T72985A, M001T74781, M001T74781A, M001T74785, M001T78881, M1T72981, M1T72981A

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 75.95, **Splines A** 8, **No./teeth** 8, **Rotation** CR



## 136348 Drive

**Replacing:** M191X27171, M191T27171, M191T26971, M191T26571

**Servicing:** M002T41181, M002T41182, M003T27781, M003T27781D, M003T37782, M003T37783, M003T40471, M003T49281, M003T49282, M2T41181

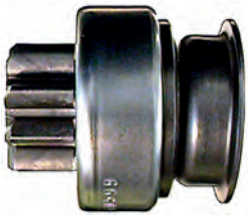
**ID** 12.00, **OD** 27.95, **OD/housing** 46.00, **Total length** 89.20, **Splines A** 4, **No./teeth** 8, **Rotation** ACR

## 136594 Clutch

**Replacing:** M357X82175

**Servicing:** M002T54085, M002T58981, M2T54085, M2T58981

**Total length** 110.00/123.00, **No./teeth** 11



## 136602 Drive

**Replacing:** M191T12871

**Servicing:** M000T84881, M000T84881ZC, M000T84882ZC, M001T72481, M001T72481ZC, M001T74581, M001T74583, M0T84881, M0T84881ZC

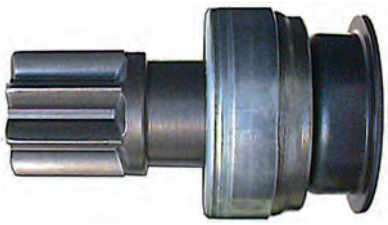
**ID** 12.00, **OD** 29.40, **OD/housing** 46.00, **Total length** 50.00, **Splines A** 8, **No./teeth** 9, **Rotation** CR

## 136722 Drive

**Replacing:** M357X91372, M191T18271, M191T14671, M191T13671

**Servicing:** 1810A101, M000T22471, M000T22472, M000T35471, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T82081

**ID** 12.00, **OD** 31.80, **OD/housing** 46.00, **Total length** 51.00, **Splines A** 8, **No./teeth** 12, **Rotation** CR



## 136923 Drive

**Replacing:** M191X16971, M191X16771, M191T16971, M191T16771

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M000T81381, M000T81681, M000T83981

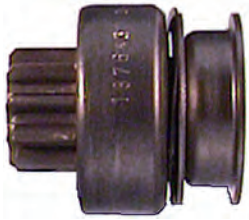
**ID** 12.00, **OD** 28.00, **OD/housing** 46.15, **Total length** 75.35, **Splines A** 8, **No./teeth** 8, **Rotation** ACR

## 137218 Drive

**Replacing:** M191T12971

**Servicing:** M000T60081A, M000T60181, M000T60181A, M000T65381, M001T60081, M001T60181, M001T60185, M001T60285A, M001T60581

**ID** 15.70, **OD** 29.14, **OD/housing** 46.00, **Total length** 73.31, **Splines A** 8, **No./teeth** 9, **Drive type** Steel, **Rotation** CR



## 137643 Drive

**Replacing:** M191T15271, M191T14371, M191T12272, M191T12271

**Servicing:** M000T32171, M000T32172, M000T32172ZE, M000T32173ZE, M000T32177, M001T74281, M001T74281ZC, M001T74283, M001T74283ZC

**ID** 12.00, **OD** 27.90, **OD/housing** 46.15, **Total length** 51.75, **Splines A** 8, **No./teeth** 10, **Rotation** CR

## 137764 Drive

**Replacing:** M191T12671

**Servicing:** M001T72281, M001T72281A, M001T72285, M001T72781A, M001T72781B, M1T72281, M1T72281A, M1T72285, M1T72781A, M1T72781B

**ID** 12.00, **OD** 28.00, **OD/housing** 46.25, **Total length** 64.90, **Splines A** 8, **No./teeth** 8, **Rotation** CR

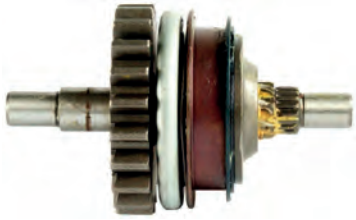
## 137765 Drive

**Replacing:** M191X13471, M191T13471

**Servicing:** M000T60081, M000T60081A, M001T60281, M001T60285, M0T60081, M0T60081A, M0T60187, M1T60281, M1T60285

**ID** 10.70, **OD** 29.20, **OD/housing** 46.35, **Total length** 77.25, **Splines A** 8, **No./teeth** 9, **Rotation** CR

*Dust cover kit: HC-CARGO 230549.*



## 139410 Drive

**Replacing:** M357X78471, M357X77971

**Servicing:** M002T25481, M2T25481

**OD** 59.75, **Total length** 97.40, **Splines A** 8, **No./teeth** 21, **Rotation** ACR

## 139541 Drive

**Replacing:** MD618963, M191X68071, M191T68071, M191T15071

**Servicing:** 1810A053, M002T80582, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T85271, M002T87071

**ID** 13.05, **OD** 32.90, **OD/housing** 46.00, **Total length** 50.80, **Splines A** 8, **No./teeth** 10, **Rotation** CR

## 230332 Drive

**Replacing:** M357X85073

**Servicing:** M003T56181, M003T56182, M003T56183, M3T56181, M3T56182, M3T56183, M3T58571

**OD** 39.00, **Total length** 139.40, **Splines A** 20, **Splines B** 22, **No./teeth** 10

## 231341 Drive

**Replacing:** M191X68971, M191T93971, M191T68971

**Servicing:** M002T87671, M2T87671

**ID** 13.00, **OD** 35.00, **OD/housing** 46.40, **Total length** 51.40, **Splines A** 8, **No./teeth** 9, **Rotation** CR

## 231415 Drive

**Replacing:** MD619204, M191X68471

**Servicing:** M002T87371, M002T87971, M002T88071, M002T88171, M002T88271, M002T88671, M2T87371, M2T87971, M2T88071, M2T88171

**ID** 13.05, **OD** 37.50, **OD/housing** 47.00, **Total length** 51.50, **Splines A** 8, **No./teeth** 12, **Rotation** CR

## 231952 Drive

**Replacing:** M191T76081, M191T14271

**Servicing:** M001T30071, M001T30072, M001T30171, M001T30172, M001T30173, M001T76081, M1T30071, M1T30072, M1T30073, M1T30171

**ID** 12.00, **OD** 33.00, **OD/housing** 46.25, **Total length** 51.50, **Splines A** 8, **No./teeth** 10, **Rotation** CR

## 234514 Drive

**Replacing:** M191T19271

**Servicing:** M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T86081, M001T80481, M00T20871, M0T20871, M0T20871ZE

**ID** 12.00, **OD** 34.50, **OD/housing** 47.00, **Total length** 51.30, **Splines A** 8, **No./teeth** 13, **Rotation** CR

**Alternative no.:** 333871



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## 235426 Drive

**Replacing:** M191X243BT, 6001547546

**Servicing:** M000T45071ZT, M000T45171, M000T45171ZT, M000T45371ZT, M0T45071ZT, M0T45171, M0T45171ZT, M0T45371, M0T45371ZT

**ID** 10.70, **OD** 23.60, **OD/housing** 45.00, **Total length** 44.00, **Splines A** 12, **No./teeth** 8, **Rotation** CR

## 236752 Drive

**Replacing:** M191X16371

**Servicing:** M000T87081, M0T82881, M0T87081

**ID** 12.00, **OD** 40.00, **OD/housing** 47.00, **Total length** 76.15, **Splines A** 8, **No./teeth** 13, **Rotation** ACR

## 236779 Drive

**Replacing:** M191X19971

**Servicing:** M000T36371, M000T87681, M000T90981, M0T36371, M0T87681, M0T90981

**ID** 12.00, **OD** 35.00, **OD/housing** 44.00, **Total length** 51.00, **Splines A** 8, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 237858 Drive

**Servicing:** M000T45271, M000T45271ZT, M000T46171ZT, M0T45271, M0T45271ZT, M0T45275ZT, M0T46171ZT, MR994922

**ID** 10.60, **OD** 23.60, **OD/housing** 44.95, **Total length** 70.90, **Splines A** 12, **No./teeth** 8, **Drive type** Steel, **Rotation** ACR

## 330417 Drive

**Replacing:** M191T95671

**Servicing:** M002T85671, M002T85672, M002T85871, M2T85671, M2T85672, M2T85871

**ID** 11.97, **OD** 29.26, **OD/housing** 46.84, **Total length** 64.26, **Splines A** 8, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## 331730 Drive

**Replacing:** M191X15871

**Servicing:** M000T21671, M000T30771, M0T20471, M000T32571ZE, M000T32572ZE, M000T36071, M000T36071ZE, M000T36971, M000T36971ZE

**ID** 12.00, **OD** 28.00, **OD/housing** 47.00, **Total length** 41.50, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333716

## 331942 Drive

**Replacing:** M191T41471

**Servicing:** 1810A062, 1810A143, M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M1T93071, M1T93071ZC, M1T93171

**ID** 12.00, **OD** 34.50, **OD/housing** 46.90, **Total length** 64.00, **Splines A** 12, **No./teeth** 13, **Drive type** Steel, **Rotation** CR

## 332166 Drive

**Servicing:** M000T32771, M0T32771

**ID** 12.00, **OD** 31.80, **OD/housing** 47.00, **Total length** 41.40, **Splines A** 8, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 332193 Drive

**ID** 16.30, **OD** 28.40, **OD/housing** 49.79, **Total length** 88.95, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 333127 Drive

**Replacing:** M191T94571

**Servicing:** M002T88571, M002T88572, M002T88572ZC, M2T88571, M2T88572, M2T88572ZC

**ID** 13.15, **OD** 32.40, **OD/housing** 47.00, **Total length** 51.50, **Splines A** 8, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

## 333677 Drive

**Servicing:** M8T50071, M8T50171

**OD/housing** 60.00, **Total length** 110.00, **Splines A** 5, **Drive type** Steel, **Rotation** CR

## 333716 Drive

**Replacing:** M191X15871

**Servicing:** M000T20471, M000T20472, M000T20871ZE, M000T30672, M000T30771, M000T32572, M000T35171, M000T36071, M0T20471, M0T20472

**ID** 12.00, **OD** 28.15, **OD/housing** 46.30, **Total length** 42.00, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 331730



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**333860** Drive
**Replacing:** M191T23371
**Servicing:** M003T27686N, M003T30581H, M003T33981H, M3T27686N, M3T30581H, M3T33981H
**ID** 12.00, **OD** 32.00, **OD/housing** 46.50, **Total length** 56.00, **Splines A** 8, **No./teeth** 10, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 135581

**333871** Drive
**Replacing:** M191T19271
**Servicing:** M000T20871, M000T20871ZE, M000T21471, M000T86081, M0T20871, M0T20872, M0T21471, M0T86081
**ID** 12.00, **OD** 34.50, **OD/housing** 47.00, **Total length** 51.30, **Splines A** 8, **No./teeth** 13, **Drive type** Steel, **Rotation** CR
**Alternative no.:** 234514

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**333947** Drive
**Replacing:** M191X14671
**Servicing:** M000T88681, M001T96581, M1T96581, M1T96681
**ID** 12.00, **OD** 31.75, **OD/housing** 46.50, **Total length** 51.50, **Splines A** 8, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**333972** Drive
**Replacing:** M191T41171
**Servicing:** M001T30271
**ID** 12.00, **OD** 32.50, **OD/housing** 47.00, **Total length** 76.00, **Splines A** 8, **No./teeth** 12, **Drive type** Steel, **Rotation** ACR

## Drive Parts

### Caps

Pkg. 10

**134260** Dp Cap
**ID** 54.00, **OD** 56.30

### Rollers

Pkg. 1000

**134247** Dp Rollers
**Servicing:** M000T20171, M001T30271
**OD** 6.00, **Length** 13.60

Pkg. 500

**237953** Roller
**Servicing:** M009T61971, M009T62671, M191X69771, M191X93771
**OD** 7.48, **Length** 22.38

Pkg. 100

**238881** Roller
**OD** 8.50, **Length** 24.00

Pkg. 500

**332095** Rollers
**Servicing:** M008T62671, M8T62671
**OD** 7.50, **Length** 17.50

### Springs

Pkg. 1000

**134266** Dp Springs
**Replacing:** M800X70771
**Servicing:** M008T80371, M008T80373, M8T80371, M8T80373
**OD** 5.10, **Length** 10.80

### Pinion

**132085** Pinion
**Replacing:** M605X31671
**Servicing:** M002T50981, M002T53781, M002T53785, M003T30281, M2T50981, M2T53581, M2T53781, M2T53785, M3T30281
**ID** 11.65, **OD** 37.00, **Height** 19.10, **No./splines** 18, **No./teeth** 12

**132483** Pinion
**Replacing:** MD607789, M605X65171
**Servicing:** M002T56171, M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773, M002T62971, M002T63171
**ID** 13.65, **OD** 32.30, **Height** 20.35, **No./splines** 20, **No./teeth** 10
**Alternative no.:** 333873



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#Available while stock last, * Program development.

## 133007 Pinion

**Replacing:** MM502529, M605X32471, M605X25771, M605X23471

**Servicing:** M002T52871, M002T52881, M002T52882, M002T54085, M002T54091, M002T58381, M002T58581, M002T58681, M002T58881, M002T58981

**ID** 12.00, **OD** 34.30, **Height** 19.00, **No./splines** 18, **No./teeth** 11

## 133009 Pinion

**Replacing:** M605X61671

**Servicing:** M002T50281, M002T50285, M2T50371, M002T50371, M002T50381, M002T50391, M002T52381, M002T53681, M2T50281, M2T50285

**ID** 11.20, **OD** 45.15, **Height** 18.95, **No./splines** 18, **No./teeth** 15

## 133363# Pinion

**Replacing:** M605X32571

**Servicing:** M001T50071, M002T50481, M002T50485, M1T50071, M2T50481, M2T50485

**ID** 11.90, **OD** 27.20, **Height** 19.20, **No./splines** 18, **No./teeth** 10

## 133450 Pinion

**Replacing:** M605X28271

**Servicing:** M002T56471, M002T56472, M002T56475, M002T60271, M002T61371, M002T65271, M002T65272, M002T69171, M003T64172, M2T56471

**ID** 15.00, **OD** 42.00, **Height** 18.20, **No./splines** 20, **No./teeth** 11

## 133451 Pinion

**Replacing:** MD611022, M605X66071

**Servicing:** M002T60171, M002T60172, M002T61071, M002T61072, M002T61171, M002T61271, M002T62771, M2T60171, M2T60172, M2T60671

**ID** 12.85, **OD** 40.00, **Height** 18.20, **No./splines** 20, **No./teeth** 13

## 133453 Pinion

**Servicing:** M001T50171, M001T50172, M1T50171, M1T50172

**ID** 15.65, **OD** 27.50, **Height** 18.65, **No./splines** 18, **No./teeth** 10

## 133493 Pinion

**Replacing:** MM502439, M605X30671

**Servicing:** M002T56271, M002T56272, M2T56271, M2T56272, M2T65671, MM409412, MM409413

**ID** 15.00, **OD** 40.00, **Height** 18.20, **No./splines** 20, **No./teeth** 13

Pkg. 10

## 133630 Pinion

**Replacing:** M605X63172

**Servicing:** M002T54271, M002T64271, M002T64272, M003T52071, M2T54271, M2T54272, M2T64271, M2T64272, M3T52071

**ID** 13.45, **OD** 35.50, **Height** 17.70, **No./splines** 20, **No./teeth** 9

## 133871 Pinion

**Replacing:** ME700375, M605X31971

**Servicing:** M002T57871, M002T57881, M002T61771, M002T66871, M002T66872, M002T66873, M002T67871, M002T67872, M002T67873, M002T67881

**ID** 13.30, **OD** 35.35, **Height** 17.70, **No./splines** 20, **No./teeth** 9

## 137492 Pinion

**Replacing:** MD611748, M605X36071

**Servicing:** M002T60185, M002T61171, M2T60185, M2T61171, MD121581, MD156987, MD164978

**ID** 13.35, **OD** 39.85, **Height** 19.65, **No./splines** 20, **No./teeth** 13

## 137739 Pinion

**Replacing:** M605X27971

**Servicing:** M002T56071, M2T56071

**ID** 12.60, **OD** 39.95, **Height** 18.20, **No./splines** 20, **No./teeth** 10

## 139344 Pinion

**Replacing:** M605X36171

**Servicing:** M002T62271, M002T64373, M002T74371, M003T67671, M2T62271, M2T64373, M2T66271, M2T66272, M2T74371, M3T67671

**ID** 19.80, **OD** 38.50, **Height** 18.20, **No./splines** 20, **No./teeth** 10



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

## 139585 Pinion

**Replacing:** M605X26971

**Servicing:** M002T54571, M002T54572, M003T67771, M2T54571, M2T54572, M3T67771

**ID** 19.70, **OD** 51.00, **Height** 18.25, **No./splines** 20, **No./teeth** 13

## 139820 Pinion

**Replacing:** ME701489, M605X95571

**Servicing:** M008T80071, M008T80071A, M008T80071B, M008T85071B, M008T85571, M8T80071, M8T80071A, M8T80071B, M8T85071, M8T85071A

**ID** 20.00, **OD** 35.35, **Height** 17.70, **No./splines** 20, **No./teeth** 9

## 230333 Pinion

**Replacing:** M605X28571

**Servicing:** M003T56174, M003T56181, M003T56182, M003T56183, M3T56174, M3T56181, M3T56182, M3T56183, M3T58571

**ID** 12.80, **OD** 38.80, **Height** 20.00, **No./splines** 20, **No./teeth** 10

## 231456 Pinion

**Replacing:** M605X96971

**Servicing:** M008T50071, M008T50171, M008T70071, M8T50071, M8T50171, M8T50172, M8T70071

**ID** 13.45, **OD** 37.15, **Height** 17.75, **No./splines** 20, **No./teeth** 12

## 231779 Pinion

**Replacing:** ME700856, M605X35071

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78383, M2T78372, M2T78381, M2T78382, M2T78383, M2T78681, ME087590, N002T78681

**ID** 12.90, **OD** 40.65, **Height** 17.80, **No./splines** 20, **No./teeth** 11

## 232230 Pinion

**Replacing:** ME701461, M605X95271, M605X74571

**Servicing:** M008T75071, M008T75073, M008T75074ZT, M8T75071, M8T75073, M8T75074ZT, ME201650, ME201650A, ME202970

**ID** 17.55, **OD** 32.45, **Height** 20.20, **No./splines** 20, **No./teeth** 10

## 232390 Pinion

**Replacing:** M605X65771

**Servicing:** M002T60071, M002T60072, M002T60073, M2T60071, M2T60072, M2T60073

**ID** 12.90, **OD** 37.00, **Height** 17.70, **No./splines** 20, **No./teeth** 12

## 232391 Pinion

**Replacing:** ME701441, M605X95071

**Servicing:** M008T55171, M008T60071, M3T56089, M8T55171, M8T60071, M8T60072, M8T60073, M8T60089, M8T60171, M8T60173, M8T60174

**ID** 13.45, **OD** 40.65, **Height** 17.85, **No./splines** 20, **No./teeth** 11

## 234808 Pinion

**Replacing:** M605X71971

**Servicing:** M009T60371, M009T60671, M009T60672, M9T60371, M9T60671, M9T60672

**ID** 24.60, **OD** 45.90, **Height** 32.20, **No./splines** 27, **No./teeth** 12

## 234906 Pinion

**Replacing:** M605C63301, M605C36101

**Servicing:** M002T64371, M002T64373, M2T64371, M2T64372, M2T64373

**ID** 15.00, **OD** 38.65, **Height** 18.15, **No./splines** 20, **No./teeth** 10

## 330368 Pinion

**Servicing:** M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE

**ID** 20.71, **OD** 42.87, **Height** 18.71, **No./splines** 30, **No./teeth** 11

## 333873 Pinion

**Replacing:** MD607789, M605X65171

**Servicing:** M002T56181, M002T56182, M002T56185, M002T57271, M002T63171, M002T74171, M2T56181, M2T56182, M2T56185, M2T57271

**ID** 13.65, **OD** 32.30, **Height** 20.35, **No./splines** 20, **No./teeth** 10

**Alternative no.:** 132483

## Planet Gears

### 138579 Planet Gear

**Replacing:** MD611206, M357X86778, M357X86771

**Servicing:** M001T70281, M001T70281ZC, M001T70283, M001T70283ZC, M001T70481, M001T70481ZC, M001T70482, M001T70483, M001T70483ZC

*w/o gear wheels: HC-CARGO 135341 (x3).*
*Drive only: HC-CARGO 132011.*

### 138584 Planet Gear

**Replacing:** M357X88177

**Servicing:** M001T60281, M001T60285, M1T60281, M1T60285, M1T60313

*w/o gear wheels: HC-CARGO 135341 (x3).*
*Drive only: HC-CARGO 137765.*

### 235285 Planet Gear

**Replacing:** M357X90373

**Servicing:** M000T80081, M000T80581, M000T80781, M000T80783, M000T80784, M000T81181, M000T81281, M000T81283, M000T81284, M000T81482

**Shaft dia./middle** Ø12, **Total length** 110.00, **No./splines** 8, **Rotation** CR
*Drive: HC-CARGO 132011.*

### 235286 Planet Gear

**Replacing:** M357X90571

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M000T81681, M000T83981, M0T80281

**Total length** 133.50, **No./splines** 8, **No./teeth** 8, **Rotation** ACR
*Drive: HC-CARGO 136923.*

### 235833# Gear w/ drive

**Replacing:** MD618591, M357X89771

**Servicing:** M000T70381, M000T71385, M000T71581, M000T71681, M000T71786, M0T70286, M0T70287, M0T70381, M0T70481, M0T70681, M0T70781

**Shaft dia./middle** 16.00, **Total length** 108.50, **No./splines** 8, **No./teeth** 8, **Rotation** CR

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### 237899 Planet Gear

**Replacing:** M357X90777

**Servicing:** M002T87371, M002T87971, M002T88071, M002T88171, M002T88271, M2T87371, M2T87971, M2T88071, M2T88171, M2T88271, M2T88671

**Total length** 106.50, **No./splines** 8

## Gear Parts

### Gear Shafts

### 139200 Gear Shaft

**Replacing:** MD611207, M357X67971, M357C61671

**Servicing:** M000T70281, M000T70285, M000T86681, M001T70281, M001T70281ZC, M001T70283, M001T70283ZC, M001T70481, M001T70481ZC

**OD/shaft** 9.92, **Total length** 105.20, **No./splines** 8

### 230500 Gear Shaft

**Replacing:** M357X65471

**Servicing:** M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M0T60081, M0T60081A, M0T60181, M0T60181A, M0T60581

**OD/shaft** 10.62, **Total length** 100.20, **No./splines** 8

### 231776 Gear Shaft

**Replacing:** M357X64471

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M000T80881, M000T81381, M000T81681

**OD/shaft** 9.90, **Total length** 130.20, **No./splines** 8



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#Available while stock last, * Program development.

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**233595** Gear Shaft

**Replacing:** M357X68071, M357X64371

**Servicing:** M000T80081, M000T80381, M000T80581, M000T80781, M000T80783, M000T80784, M000T81181, M000T81281, M000T81283, M000T81284

**OD/shaft** 9.90, **Total length** 104.90, **No./splines** 8

**235340** Gear Shaft

**Replacing:** M357X64771

**Servicing:** M001T72483, M001T72483ZC, M001T79481, M001T79482, M002T80582, M002T84071, M002T84171, M002T84171ZT, M002T84571

**OD/shaft** 9.90, **Total length** 105.00, **No./splines** 8

**237343**[#] Gear Shaft

**OD/shaft** 11.96, **Total length** 130.20, **No./splines** 10

**237842** Gear Shaft

**Total length** 125.60, **No./splines** 12

## Outer Gear

**133403** Outer Gear

**Replacing:** M135X01171, M135X00771, M135C00171, M135B00371

**Servicing:** M001T60081, M001T60181, M001T60185, M001T60381, M001T60581, M001T61181, M001T68681, M001T70281, M001T70281ZC

**ID** 49.15, **OD** 65.00, **Height** 30.20, **No./teeth** 43

**139323** Outer Gear

**Replacing:** M135X01571, M135X01471

**Servicing:** M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T80081, M000T80281, M000T80281A, M000T80281B

**ID** 46.90, **OD** 63.80, **No./teeth** 42

*Bushing I.D. 17.50 mm.*

**139536** Outer Gear

**Replacing:** MD618961, M135X02871, M135X01071

**Servicing:** 1810A062, 1810A143, M002T80582, M002T84071, M002T84171, M002T84571, M002-T84771, M002T87071, M002T87171, M002T87371

**ID** 50.25, **OD** 58.90, **Height** 30.40, **No./teeth** 44

**139821** Outer Gear

**Replacing:** M135X01771

**Servicing:** M008T77071, M008T77072, M008T7-7074, M008T77075, M008T80371, M008T80373, M008T85071B, M008T85571, M2T80772, M8T77071

**ID** 50.00, **OD** 62.00, **No./teeth** 44

*Bushing I.D. 20.70 mm.*

**231575** Outer Gear

**Replacing:** ME701437, M135X01581

**Servicing:** M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872, M008T60873, M008T62671

**ID** 50.65, **OD** 70.00, **Height** 30.35, **No./teeth** 44

**233638** Outer Gear

**Servicing:** M000T80082, M001T80081, M001T80082, M001T80381, M0T80082, M1T80081, M1T80082, M1T80381

**ID** 46.30, **OD** 55.80, **Height** 30.32, **No./teeth** 42

*Bearing: HC-CARGO 140920.*

## Gear Wheels

Pkg. 10

**135341** Gear Wheel

**Replacing:** ME701459, MD618962, M230X00671, M230X00471, M230D00171

**Servicing:** 1810A062, 1810A143, M000T20871, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285

**ID** 8.00, **OD** 20.30, **Height** 11.30, **No./teeth** 16



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[#]Available while stock last, * Program development.

## 138565 Gear

**Replacing:** ME700122, M231C00901

**Servicing:** 34466-15101, 34466-15102, M002T54271, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671

**ID** 14.30, **OD** 45.20, **Height** 16.60, **No./splines** 22, **No./teeth** 32

## 230337 Gear

**Replacing:** M231C00401

**Servicing:** M002T50171, M002T50181, M002T50281, M002T50285, M002T50371, M002T50381, M002T50391, M002T50481, M002T50485, M002T50981

**ID** 12.15, **OD** 41.75, **Height** 16.00, **No./splines** 18, **No./teeth** 32

### Rubbers

## 235201 Gasket

**Servicing:** M000T80082, M000T86081, M000T86181, M000T87881, M000T91581, M001T80081, M001T80082, M001T80181, M001T80381, M00T87881

**ID** 52.60, **OD** 64.85, **Thickness** 7.50, **Type** Starter, **Material** Rubber

### Various

## 136895 Gasket

**Replacing:** MD611213, M578C24601

**Servicing:** 1810A101, M001T30071, M001T30171, M001T30172, M001T30173, M001T60081, M001T60181, M001T60185, M001T60281, M001T60285

**ID** 53.00, **OD** 67.00, **Thickness** 8.00

Pkg. 10

## 139540 Gasket

**Replacing:** MD618965, M578X27571

**Servicing:** 1810A053, 1810A062, 1810A143, M001T30271, M001T80681, M001T84381ZC, M001T84382ZC, M001T85781, M001T93071, M001T93371ZC

**ID** 52.95, **OD** 63.85, **Thickness** 7.50, **Material** Rubber

## 231459 Dust Cap Kit

**Replacing:** ME701445, M578X29171

**Servicing:** 1810A050R, 32A66-10101, M002T85271, M002T87271, M002T87271ZT, M002T87671, M002T88372, M002T88471, M002T88472

*Some use gasket: HC-CARGO 136895.*

### Levers

## 132637# Lever Kit

**Replacing:** M863D03571

**Servicing:** M005T22175, M005T22176, M5T20172, M5T22175, M5T22176, M5T23272, M5T25373, M5T27672

**Dist.** 26.10, **ID** 5.60, **Length** 99.90

## 133463 Lever

**Replacing:** MD607921, M864X09571

**Servicing:** M002T23081, M002T25772, M002T44781, M002T57271, M003T10476D, M003T21281D, M003T21381, M003T21781, M003T21882D

**Dist.** 22.60, **Length** 81.05

## 134047 Lever

**Replacing:** M864X08872, M864X08871

**Servicing:** M002T20181, M002T20181D, M002T30681, M002T30786, M002T30981, M002T37081, M002T37281, M002T41181, M002T41182, M002T42981

**Dist.** 22.20, **Length** 79.75

## 135468 Lever

**Replacing:** MD618546, MD611223, M864X09774, M864X09772, M864X09771

**Servicing:** 1810A062, 1810A101, 1810A143, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285

**Dist.** 36.30, **Length** 74.00

## 135571 Lever

**Replacing:** MM502405, M864X07071, M863D02271

**Servicing:** A3T22681, M002T10271, M002T10471, M003T10071, M003T10372, M003T10473, M003T10475, M003T10476, M003T10672, M003T11174

**Dist.** 22.55, **Length** 81.70

## 135573 Lever

**Replacing:** MD607633, M863C06171, M863C05571

**Servicing:** M002T51085, M002T54771, M002T56171, M002T56181, M002T56182, M002T56185, M002T56271, M002T56272, M002T57271, M002T57273

**Dist.** 54.55, **ID** 5.00, **Length** 114.00



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**136416** Lever

**Replacing:** M863C06272, M863C06271, M863C04871

**Servicing:** 34466-15101, 34466-15102, M002T51082, M002T51083, M002T54271, M002T54272, M002T54371, M002T54372, M002T54471

**Dist.** 55.20, **ID** 4.90, **Length** 90.45

**137713** Lever

**Replacing:** M863C07271, M863C05271, M863C04671

**Servicing:** M002T50281, M002T50285, M002T50371, M002T50381, M002T50391, M002T50481, M002T50485, M002T51083, M002T51281, M002T51282

**Dist.** 44.40, **ID** 5.15, **Length** 81.00

**139533** Lever Kit

**Replacing:** M864X09371

**Servicing:** M002T13081, M002T13281, M002T13581, M002T30381, M002T30385, M002T30481, M002T30581, M002T30585, M002T30586, M002T30881

**Dist.** 22.30, **Length** 77.25

**139538** Lever Kit

**Replacing:** MD618971, M864X11571

**Servicing:** 1810A053, M002T80582, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T84771, M002T85271

**Dist.** 36.00, **Length** 76.40

**139823** Lever Kit

**Replacing:** ME701488, M863X09671, M863X08672

**Servicing:** M008T70471, M008T70471A, M008T80071, M008T80071A, M008T80071B, M008T80371, M008T80373, M2T80772, M8T70471, M8T70471A

**Dist.** 38.20, **ID** 4.95, **Length** 85.45

*Lever only: HC-CARGO 232969.*

**139868**# Lever

**Replacing:** M863C04971

**Servicing:** M002T10471, M003T10372, M003T10473, M003T10475, M003T10476, M003T15772, M003T19371, M003T19771, M003T19871, M003T20781

**Dist.** 22.75, **ID** 5.00, **Length** 82.00

**139981** Lever

**Replacing:** M863C06971

**Servicing:** M002T92071, M002T92071A, M2T92071, M2T92071A, M2T92271, M2T92271A, M2T95071

**Dist.** 56.30, **ID** 5.10, **Length** 114.55

**231265** Lever Kit

**Replacing:** M864X12371

**Servicing:** 1810A050, 1810A050R, M008T70071, M008T75071, M008T75071A, M008T75073, M008T75073A, M008T75074, M008T75074ZT, M8T70071

**Dist.** 36.30, **Length** 76.00

**231782** Lever Kit

**Replacing:** ME700234, M863C05672

**Servicing:** M002T69081, M002T69171, M002T78072, M002T78072B, M002T78172, M002T78172A, M002T78372, M002T78381, M002T78382

**Dist.** 55.25, **ID** 5.40, **Length** 99.30

**232969** Lever

**Servicing:** 32A66-10101, M008T50071, M008T50072, M008T70371, M008T70471, M008T70471A, M008T71571, M008T75171, M8T50071, M8T50072

*Lever kit: HC-CARGO 139823.*

**233377** Lever

**Replacing:** M864X12271, M863X09272

**Servicing:** M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872, M008T60873, M008T61671

**Dist.** 37.70, **ID** 5.65, **Length** 84.60

**234677** Lever

**Replacing:** M863X08471

**Servicing:** M002T25481, M2T25481

**Dist.** 47.60, **ID** 5.00, **Length** 107.55



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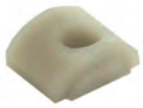
## Lever Parts

### Various

Pkg. 10



**233378** Lever Support

**Servicing:** M001T50471, M002T10171, M002T10471, M002T20181, M002T20181A, M002T25481, M002T50381, M002T50391, M002T50481, M002T50485

**Dist.** 15.00, **ID** 6.75, **Length** 18.00

## Clutches

**132017** Clutch

**Replacing:** M357T76871, M357T71871, M357T71687

**Servicing:** M002T50581, M002T53881, M002T53882, M002T53883, M002T64271, M003T52071, M2T50581, M2T50585, M2T53881, M2T53882

**Total length** 122.00, **No./splines** 18, **Rotation** ACR

**132386** Clutch

**Replacing:** MM502531, MD607540, M357T78071, M357T70971, M357T70771, M357T70171

**Servicing:** M001T50471, M002T50171, M002T50181, M002T50281, M002T50285, M002T50381, M002T50481, M002T50485, M002T50981, M002T52081

**Total length** 123.00, **No./splines** 18

**132387** Clutch

**Replacing:** MM502404, M357T70571

**Servicing:** M002T52071, M002T58381, M002T58481, M002T58781, M2T52071, M2T58081, M2T58285, M2T58381, M2T58481, M2T58781, MD171502

**Total length** 123.00, **No./splines** 18

**132489** Clutch

**Replacing:** MD607791, M357T75571

**Servicing:** M002T56181, M002T56182, M002T56185, M002T57271, M002T57273, M002T57771, M002T57773, M002T62971, M002T63171, M002T74171

**OD** 66.50, **Total length** 118.80, **No./splines** 20

**133439** Clutch

**Replacing:** MD607938, M357T76371, M357T75971, M357T75471

**Servicing:** M001T50071, M001T50171, M001T50172, M002T50391, M002T51181, M002T51281, M002T51282, M002T52281, M002T54091, M002T61871

**Total length** 123.00, **No./splines** 18

**133448** Clutch

**Replacing:** MD607642, M357T73171

**Servicing:** M002T56171, M002T56271, M002T56272, M002T60171, M002T60172, M002T60185, M002T61071, M002T61072, M002T61171, M002T61271

**OD/housing** 118.00, **No./teeth** 20

**133449** Clutch

**Replacing:** M357X85273, M357X83673, M357T72672, M357T72671

**Servicing:** 34466-15101, 34466-15102, M002T56471, M002T56472, M002T56475, M002T57881, M002T60271, M002T61371, M002T61771

**Total length** 144.00, **No./splines** 20

**134966** Clutch

**Replacing:** ME700121, M357T84181, M357T76171, M357T73181, M357T72971, M357T71671, M357T61671

**Servicing:** M002T54271, M002T54272, M002T54371, M002T54372, M002T54571, M002T54572, M002T54871, M002T54881, M002T54882, M002T56071

**OD** 66.00, **Total length** 116.00/134.00, **No./splines** 20

**231371** Clutch

**Replacing:** ME701651, ME701648, ME701487, M191X68671, M191X68271, M191X67885, M191X67871, M191X67771

**Servicing:** 32A66-10101, M008T50071, M008T50171, M008T50471, M008T55073, M008T55171, M008T60071, M008T60371, M008T60372, M008T60373

**OD** 59.50, **Total length** 110.00, **No./splines** 20, **Rotation** CR



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## 232054 Clutch

**Replacing:** ME701640, ME701456, M357X91973, M357X91971, M357X91171

**Servicing:** M008T70071, M008T70471, M008T75071, M008T75073, M008T75074ZT, M008T80471, M008T80472, M8T70471, M8T70472, M8T75071

**Shaft dia./middle** 18.65, **Total length** 127.00, **No./splines** 20, **No./teeth** 44, **Rotation** CR
*w/ gear wheel.*

## 232229 Clutch

**Replacing:** M191X69871, M191X68785, M191X68171, M191T68771

**Servicing:** M008T70071, M008T70471, M008T75071, M008T75073, M008T75074ZT, M008T80471, M008T80472, M8T70071, M8T70471, M8T70472

**Total length** 91.50, **No./splines** 5

## 233178 Clutch

**Servicing:** M001T64285, M1T64285

**Total length** 93.00, **No./splines** 30, **Rotation** ACR
*Pinion: HC-CARGO 233177.*

## 233845 Clutch

**Replacing:** ME700042, M357X73571

**Servicing:** M003T56071, M003T56072, ME037636, M003T56074, M3T56071, M3T56072, M3T56074

**OD** 65.95, **Total length** 158.00, **No./splines** 20

## 233846 Clutch

**Replacing:** M357T78271

**Servicing:** M002T63371, M2T63371, M2T83371

**Total length** 141.00, **No./splines** 20

## 234774 Clutch

**Replacing:** M191X93771, M191X69771

**Servicing:** M009T60371, M009T60671, M9T60371, M9T60671

**OD** 60.00, **Total length** 135.00, **No./splines** 26

## 234810 Clutch

**Replacing:** M191X69671

**Servicing:** M008T71371, M008T71371ZE, M008T71471, M008T71471ZE, M008T75371, M8T71371, M8T71371ZE, M8T71471, M8T71471ZE, M8T75271

**ID** 10.80, **OD** 45.90, **OD/housing** 45.90, **Total length** 92.30, **Splines A** 30, **No./teeth** 8, **Rotation** ACR

## 236080 Clutch

**Replacing:** M357T72271

**Servicing:** M002T54471, M002T57671, M002T57671A, M002T57673, M002T57673A, M002T57673C, M002T78072, M002T78072B, M003T56272

**OD** 60.00, **No./splines** 10, **Rotation** ACR

## 237105 Clutch

**Replacing:** M191X94071, M191T94071

**Servicing:** M009T61473, M009T61474, M009T61671, M009T61971, M009T62172, M009T62671, M009T64171ZT, M009T66371, M9T61171, M9T61473

**OD** 67.62, **Total length** 133.50, **No./splines** 60

## 237834 Clutch

**Replacing:** M191X90271

**Servicing:** M009T80472, M009T80473, M009T82071, M009T82479, M009T83671, M009T83672, M9T80472, M9T80473, M9T82071, M9T82479

**ID** 22.00, **OD** 70.25, **Total length** 140.00, **No./splines** 26

## 330366 Clutch

**Replacing:** M191X95971

**Servicing:** M008T76071, M008T76072, M008T76072ZE, M8T76071, M8T76071ZE, M8T76072, M8T76072ZE

**OD** 47.00, **Total length** 91.33, **Rotation** CR

## 330723 Clutch

**Replacing:** M357X78871

**Servicing:** M002TS0571, M002TS0575, M2TS0571, M2TS0575

**OD** 46.95, **Total length** 166.50, **No./splines** 8, **Rotation** CR



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#Available while stock last, * Program development.

## Brush Gears

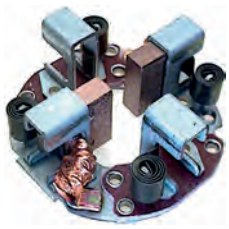
### 132475 Brush Gear

**Replacing:** M649T05071

**Servicing:** M002T54271, M002T54272, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T54771, M002T54871

12 **V**, **OD** 70.35

*Brush set: HC-CARGO 140387.*



### 133338 Brush Gear

**Replacing:** M649T02171

**Servicing:** M002T60071, M002T60072, M002T60073, M002T60171, M002T60172, M002T60185, M002T92071, M002T92171, M002T92172, M008T55073

**OD** 71.50

*Neg. brushes. Brush set: HC-CARGO 140388.*

### 133339 Brush Gear

**Replacing:** ME700939, ME700047, M649T07371, M649T04972, M649T04971, M371X07371

**Servicing:** M003T56071, M003T56072, M003T56082, M003T56174, M003T56181, M003T56182, M003T56183, M003T56272, M003T66071, M003T66072

12 **V**, **OD** 75.75

*Brush set: HC-CARGO 140388. Brush spring: HC-CARGO 135201.*

### 133340 Brush Gear

**Replacing:** M649X03573, M649X02572, M649T03571

**Servicing:** M002T10471, M003T10071, M003T10172, M003T10271, M003T10272, M003T10372, M003T10473, M003T10475, M003T10476, M003T10672

12 **V**, **OD** 80.35

*Neg. brushes. Brush set: HC-CARGO 140347.*

### 133341 Brush Gear

**Replacing:** MD611918, MD611731, M649X01271, M649T09471, M649T09371, M649T06871, M649T01273, M649T01272

**Servicing:** M000T81181, M001T60081, M001T60181, M001T60185, M001T60281, M001T60381, M001T60581, M001T61181, M001T64285, M001T68281

12 **V**, **OD** 67.35

*Pos. brush: HC-CARGO 140967.*

**Alternative no.:** 333636

### 133342 Brush Gear

**Replacing:** M649T06971, M649T01671

**Servicing:** 1810A062, 1810A101, 1810A143, M001T30071, M001T30072, M001T30171, M001T30172, M001T30173, M001T30271, M001T66081

12 **V**, **OD** 67.00

**Alternative no.:** 333637

### 133808 Brush Gear

**Replacing:** MD604645

12 **V**, **OD** 68.80

*Brush set: HC-CARGO 140602. Brush springs: HC-CARGO 133810.*

### 133886 Brush Gear

**Replacing:** M649X20171, M649X04473, M649T04471, M649T04071, M649T02471, M649T01471

**Servicing:** M002T23181, M002T23685, M002T24181, M002T25581, M002T25681, M002T25681G, M002T50171, M002T50181, M002T50281, M002T50285

**OD** 66.90

### 135365 Brush Gear

**Replacing:** M649X01771

**Servicing:** M001T90081, M001T90081A, M1T90081, M1T90081A

12 **V**, **OD** 67.20

*Neg. brushes. Brush set: HC-CARGO 140743.*

### 135467 Brush Gear

**Replacing:** MD618513, MD607926, MD607555, M649X01371, M649T04871, M649T02272, M649T02271, M649T01371

**Servicing:** A3T22681, M002T13081, M002T13281, M002T13581, M002T20181, M002T20181D, M002T23081, M002T25772, M002T30381, M002T30385

12 **V**, **OD** 74.00

*Neg. brushes. Brush set: HC-CARGO 140349.*



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## 137929 Brush Gear

**Replacing:** M321X07071, M321X06671, M321X05171, M321X04771, M321X04471

**Servicing:** M000T60081, M000T60081A, M000T60181, M000T60181A, M000T71881, M000T80081, M000T80281, M000T80281A, M000T80281ZC

12 **V**, **OD** 62.85

*Brush set: HC-CARGO 140921.*

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## 138963 Brush Gear

**Replacing:** ME701467, M649X20471, M649T20471

**Servicing:** 1810A050, 1810A050R, 1810A053, 32A66-10101, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T84771

12 **V**, **OD** 71.40

*Neg. brushes. Brush set: HC-CARGO 140973 (x2).*

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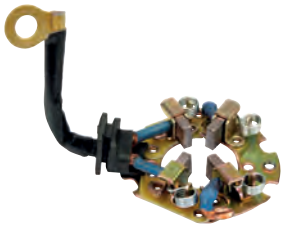

## 139238 Brush Gear

**Replacing:** MD618593, M649X10171

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T71881, M000T82081, M000T82081ZE

12 **V**, **OD** 67.67

*Neg. brushes. Positive Brush: HC-CARGO 140967.*

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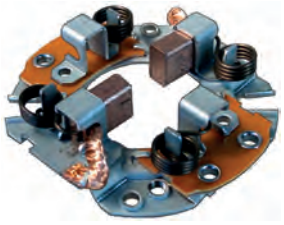

## 139560 Brush Gear

**Replacing:** M649X09571

**Servicing:** M002T25481, M2T25481

12 **V**, **OD** 67.00

*Neg. brushes. Brush set: HC-CARGO 140347.*

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## 139822 Brush Gear

**Replacing:** ME701495, M649X20771

**Servicing:** M008T80071, M008T80071A, M008T80071B, M008T80371, M008T80373, M008T80471, M008T80471A, M008T80472, M008T80472A

24 **V**, **OD** 70.00

*Neg. brushes. Positive Brush: HC-CARGO 141010.*

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## 231781 Brush Gear

**Replacing:** ME700858, M649T02172

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78383, M002T78481, M2T78071, M2T78271, M2T78372, M2T78381, M2T78382, M2T78383

24 **V**, **OD** 65.30

*Pos. brush: HC-CARGO 141102 (x2).*

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## 231892 Brush Gear

**Replacing:** ME701448, ME101448, M649X20671

**Servicing:** M008T50071, M008T50072, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M8T50071, M8T50072

24 **V**, **OD** 69.85

*Neg. brushes. Brush set: HC-CARGO 140388.*

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## 234811 Brush Gear

**Replacing:** M321X10276

**Servicing:** M000T70381, M000T81181, M001T70483, M001T73383, M001T84883, M001T84883ZC, M001T84884, M0T70381, M0T70481, M0T81181

12 **V**, **OD** 66.00

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## 235214 Brush Gear

**Replacing:** M321X07076

**Servicing:** M000T80281B, M000T84585, M000T86181, M000T87081, M000T87881, M000T91581, M001T80381, M001T80481, M00T87881, M0T80281B

12 **V**, **OD** 65.80

**Alternative no.:** 333656

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## 235390 Brush Gear

12 **V**, **OD** 64.00

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## 236441 Brush Gear

**Servicing:** M009T60371, M009T60471, M009T61473, M009T61474, M009T61571, M009T61671, M009T66371, M9T60371, M9T60471, M9T61473

24 **V**, **OD** 81.00

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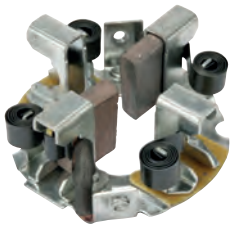


**237851** Brush Gear

**Servicing:** 39MT, M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

24 **V**, **OD** 83.08

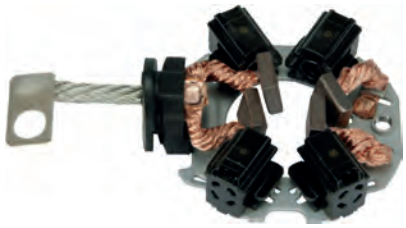
*Brush set: HC-CARGO 142006.*

**237859** Brush Gear

**Replacing:** M321X15071

**Servicing:** ACR, 1810A011, M000T20171, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T21671, M000T30771

12 **V**, **OD** 67.50



**330181** Brush Box

**Servicing:** M000T22471, M000T32271, M000T32571ZE, M000T32572ZE, M000T32771, M000T46171ZT, M0T22471, M0T22472, M0T22473, M0T32271

**OD** 65.54

**333636** Brush Gear

**Replacing:** MD611918, MD611731, M649X01271, M649T09471, M649T09371, M649T01273, M649T01272, M649T01271

**Servicing:** M000T81181, M001T60081, M001T60181, M001T60185, M001T60281, M001T60381, M001T60581, M001T61181, M001T70281

12 **V**, **OD** 67.35

**Alternative no.:** 133341

## Brush Gear Parts

### Brush Springs

Pkg. 10

**132638** Brush Spring

**Replacing:** M389D00401

**Servicing:** M005T22175, M005T22176, M5T20172, M5T20176, M5T22175, M5T22176, M5T25373, M5T27672

**OD** 10.20, **Length** 32.55

Pkg. 10

**133810** Brush Spring

**Replacing:** MD604644

**OD** 6.20, **Length** 22.00

Pkg. 1000

**134267** Dp Springs

**Servicing:** M000T20171, M000T84881, M000T84881ZC, M000T87681, M001T30271, M001T84382ZC, M001T84883ZC, M001T84884, M0T84881

**Length** 14.50

Pkg. 10

**135201** Brush Spring

**Replacing:** MD607462, M391C02201

**Servicing:** M003T54071, M003T56071, M003T56072, M003T56074, M003T56082, M003T56084, M003T56174, M003T56181, M003T56182, M003T56183

**OD** 14.20, **Length** 24.20

Pkg. 4

**136946** Brush Spring

**Replacing:** MD607901, M391C03301

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T81181, M000T82081, M000T82081ZE

**OD** 10.25, **Length** 16.20

Pkg. 4

**136947** Brush Spring

**Replacing:** MD607900, M391C03201

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T81181, M000T82081, M000T82081ZE

**OD** 10.45, **Length** 15.85

Pkg. 4

**139826** Brush Spring

**Replacing:** ME701468, M391X04371

**Servicing:** 1810A050, 1810A050R, 1810A053, 32A66-10101, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T85271

**OD** 13.00, **Length** 23.00

Pkg. 10

**233867** Brush Spring Set

**Replacing:** MD602210, M391C00101, M191C00101

**Servicing:** M002T10171, M002T20181, M002T20181A, M002T20181D, M002T20281, M002T23685, M002T24081, M002T24181, M002T25083

**OD** 12.00, **Length** 21.00

**233868** Brush Spring Set

**Replacing:** ME700128, M391C02801, M391C02501

**Servicing:** M001T90081, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T54771, M002T56171, M002T56181

**OD** 11.50, **Length** 22.70

Pkg. 10

**238126** Brush Spring

**Servicing:** 1810A011, M000T20171, M000T20871ZE, M000T20872, M000T20872ZE, M000T21671, M000T22471, M000T32171, M000T32172

**OD** 7.95, **Length** 16.20

## Brush Sets

**140345** Brush Set

**Replacing:** MD602594, MD602593, M648D10471

12 **V**, **Length** 16.50, **Lead length** 33.50, **Height** 14.00, **Thickness** 6.00

**140346** Brush Set

**Replacing:** MM502019, M648C22371

**Servicing:** M5T25373, M5T27672

12 **V**, **Length** 19.00, **Lead length** 48.10, **Height** 19.00, **Thickness** 6.50

**140347** Brush Set

**Replacing:** MD607389, MD602470, MD602468, M648C13770, M648C10371

**Servicing:** 1810A050R, 1810A053, M001T50071, M002T10171, M002T10271, M002T10471, M002T20181, M002T20181A, M002T20182, M002T23181

12 **V**, **Length** 17.00, **Lead length** 38.00, **Height** 12.00, **Thickness** 6.80

Pkg. 5

**140348** Brush Set

**Replacing:** M648C25273, M648C25271

**Servicing:** 34466-15101, 34466-15102, A007T30271, A7T30271, M002T54272, M003T54071, M003T54072, M003T61071, M003T61171, M2T54272

24 **V**, **Length** 18.00, **Lead length** 40.60, **Height** 20.00, **Thickness** 8.00

**140349** Brush Set

**Replacing:** MD607556, MD607554, M648C16971, M648C16970, M648C15070, M648C14971, M648C14970, M648C14871

**Servicing:** A3T22681, M002T13081, M002T13281, M002T13581, M002T20181, M002T20181D, M002T23081, M002T25772, M002T30381, M002T30385

12 **V**, **Length** 17.00, **Lead length** 37.00, **Height** 10.00, **Thickness** 7.00

**140385** Brush Set

12 **V**, **Length** 14.00, **Lead length** 36.00, **Height** 17.00, **Thickness** 6.80

**140386** Brush Set

**Replacing:** MM502135, M648D20771, M648C24472, M648C24471/472, M648C24471, M648C20371

**Servicing:** M005T22175, M005T22176, M5T20172, M5T22175, M5T22176, M5T23272

12 **V**, **Length** 19.00, **Lead length** 45.50, **Height** 19.00, **Thickness** 6.50

**140387** Brush Set

**Replacing:** MD618460, M648X28671, M648X28271, M648C28671, M648C15472, M648C15372/472, M648C15372

**Servicing:** M002T54371, M002T54372, M002T54571, M002T54572, M002T54771, M002T54871, M002T54881, M002T54882, M002T56171, M002T56181

12 **V**, **Length** 18.00, **Lead length** 34.50, **Height** 18.00, **Thickness** 6.80

**140388** Brush Set

**Replacing:** M648X40871, M648X40811, M648C28571, M648C28371, M648C25671/672, M648C25671

**Servicing:** M002T60072, M002T60171, M002T60172, M002T60185, M002T92071, M002T92171, M002T92172, M003T56183, M003T67771, M003T90072

12 **V**, **Length** 17.00, **Lead length** 35.50, **Lead length 2** 42.30, **Height** 24.00, **Thickness** 8.00



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#Available while stock last, * Program development.

## 140391 Brush Set

**Replacing:** ME700200, M648C10671, M648C10171, E6457044M

**Servicing:** ME-Y1R, ME-Y3R

12 **V**, **Length** 14.00, **Lead length** 37.50, **Height** 17.00, **Thickness** 6.80

Pkg. 5

## 140395 Brush Set

**Replacing:** ME700210, M648C24974, M648C24973/974, M648C24971/972

**Servicing:** M004T50073, M004T55077, M4T50073, M4T50171, M4T55077

12 **V**, **Length** 20.00, **Lead length** 42.50, **Height** 25.00, **Thickness** 8.00

## 140556 Brush Set

**Replacing:** M648C12370, M648C12170

**Servicing:** M002T10171, M002T20181A, M002T20281, M002T23685, M003T10475, M003T10476, M003T10672, M003T11174, M003T11272, M003T12572

12 **V**, **Length** 17.50, **Lead length** 38.00, **Height** 11.73, **Thickness** 6.46

## 140559 Brush Set

**Replacing:** MD611216, M647C00573, M647C00571, M647C00272, M647C00271

**Servicing:** M000T70281, M000T70285, M000T81181, M000T84381, M001T60081, M001T60181, M001T60185, M001T60281, M001T60381, M001T60581

12 **V**, **Length** 17.30, **Lead length** 80.00, **Lead length 2** 31.00, **Height** 11.76, **Thickness** 4.40

*w/o brush bar: HC-CARGO 141037.*

**Alternative no.:** 142331

## 140560 Brush Set

**Replacing:** M647C01771, M647C00671, M647C00371

**Servicing:** 1810A062, 1810A101, 1810A143, M001T30072, M001T30171, M001T30173, M001T66081, M001T71881A, M001T74081, M001T74087

12 **V**, **Length** 18.00, **Lead length** 90.50, **Height** 17.50, **Thickness** 4.50

**Alternative no.:** GAS119, GAS120

## 140561 Brush Set

**Replacing:** MD618619, M647X02971

**Servicing:** M000T71581, M000T71681, M001T60081, M001T71381, M001T72581, M001T72583, M001T72583G, M001T73281, M001T73283, M001T78981

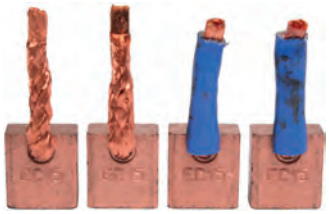
12 **V**, **Length** 17.50, **Lead length** 58.50, **Height** 12.00, **Thickness** 4.50

## 140591 Brush Set

**Replacing:** MD618447, MD607420, M648X30971, M648X28771

**Servicing:** M002T24181, M002T25581, M002T25681, M002T50391, M002T54091, M002T58581, M002T58681, M002T58781, M002T58881, M002T61871A

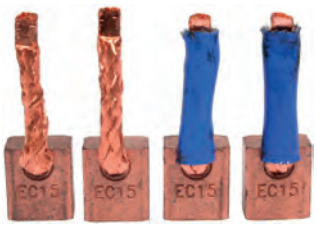
12 **V**, **Length** 17.50, **Lead length** 37.00, **Height** 12.00, **Thickness** 6.50



## 140708 Brush Set

**Servicing:** M001T50172, M001T50471, M1T50172, M1T50471

12 **V**, **Length** 16.00, **Lead length** 30.50, **Height** 14.30, **Thickness** 6.70



## 140709 Brush Set

**Servicing:** M001T50171, M002T52871, M1T50171, M2T52871

12 **V**, **Length** 14.00, **Lead length** 29.30, **Height** 12.00, **Thickness** 7.00

Pkg. 5

## 140743 Brush Set

**Replacing:** M647X01871

**Servicing:** M001T90081, M1T90081

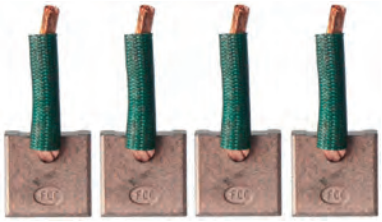
12 **V**, **Length** 17.50, **Lead length** 92.00, **Lead length 2** 24.00, **Height** 18.00, **Thickness** 4.50

## 140921 Brush Set

**Replacing:** M647X04571, M647X03971

**Servicing:** M000T60081, M000T60081A, M000T80081, M000T80281, M000T80281ZC, M000T80285, M000T80285A, M000T80381, M000T80581

12 **V**, **Length** 12.50, **Lead length** 60.00, **Lead length 2** 26.00, **Height** 12.00, **Thickness** 4.50



## 140930 Brush Set

**Servicing:** M1T30271

12 **V**, **Length** 17.00, **Lead length** 31.50, **Height** 18.00, **Thickness** 4.50



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## 140931 Brush Set

**Replacing:** M648D20671, M647C00171

**Servicing:** M002T40081, M2T40081, MD066761

12 **V**, **Length** 17.50, **Lead length** 30.50, **Height** 10.00, **Thickness** 4.50

## 140966 Brush Set

**Replacing:** M647X06571, M647X05971, M647X05871, M647X03471

**Servicing:** M000T45271, M000T45271ZT, M000T60081, M000T60081A, M000T60181, M000T60181A, M000T80081, M000T80281A, M000T80281B

12 **V**, **Length** 12.00, **Lead length** 60.00, **Height** 12.00, **Thickness** 4.50

Pkg. 5

## 140967 Brush

**Replacing:** MD618659, MD618540, M647X02671, M647X02071

**Servicing:** M000T70281, M000T70285, M000T70381, M000T86181, M001T72483, M001T72483ZC, M001T76481, M001T79481, M001T79482

12 **V**, **Length** 16.50, **Lead length** 73.00, **Lead length 2** 29.00, **Height** 12.00, **Thickness** 4.50

Pkg. 20

## 140973 Brush

**Replacing:** ME701466, M648X40771

**Servicing:** 1810A050, M002T84071, M008T70371, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T87471, M008T70071

12 **V**, **Length** 17.50, **Lead length** 35.00, **Height** 12.00, **Thickness** 6.50

Pkg. 5

## 140983 Brush

**Replacing:** M647C00871

**Servicing:** M000T82081, M000T82081ZE, M000T85381, M001T60281, M001T71381, M001T71382, M001T71382ZC, M001T72581, M001T72583

12 **V**, **Length** 17.50, **Lead length** 51.00, **Lead length 2** 28.00, **Height** 12.00, **Thickness** 4.50

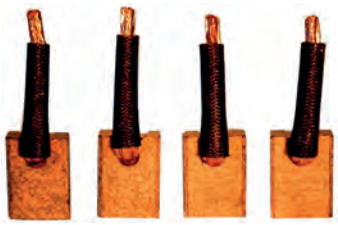
Pkg. 20

## 141010 Brush

**Replacing:** ME701494, M648X40972

**Servicing:** M002T84171, M002T84171ZT, M002T84571, M008T80071, M008T80071A, M008T80071B, M008T80371, M008T80373, M008T80471

24 **V**, **Length** 17.00, **Lead length** 35.50, **Height** 12.00, **Thickness** 6.50



## 141037 Brush Set

**Servicing:** M000T82081, M000T82081ZE, M000T85381, M000T86181, M001T60181, M001T60185, M001T60581, M001T61181, M001T64285

12 **V**, **Length** 16.50, **Lead length** 30.00, **Height** 12.00, **Thickness** 4.50

*w/ brush bar: HC-CARGO 140559.*

Pkg. 10

## 141102 Brush

**Replacing:** ME701189, M648X28471

**Servicing:** M002T78372, M002T78381, M002T78382, M002T78383, M2T78372, M2T78381, M2T78382, M2T78383, M2T78482, M2T78571, ME013390

24 **V**, **Length** 18.00, **Lead length** 41.50, **Height** 24.00, **Thickness** 7.80

## 141189 Brush Set

**Replacing:** ME700304, ME700299, M648C26771

**Servicing:** M008T62671, M4T66074, M4T66173, M8T62671

12 **V**, **Length** 18.00, **Lead length** 39.00, **Height** 24.00, **Thickness** 8.00

## 141224 Brush Set

12 **V**, **Length** 15.15, **Lead length** 61.00/93.00, **Lead length 2** 30.00, **Height** 11.85, **Thickness** 4.42

## 141245 Brush Set

**Servicing:** M000T60081A, M000T60082, M000T81181, M000T85881, M001T84883, M001T84883ZC, M001T84884, M0T60081A, M0T60082, M0T60186

12 **V**, **Length** 12.00, **Lead length** 80.00, **Lead length 2** 25.00, **Height** 12.00, **Thickness** 4.50



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## 141253 Brush Set

**Replacing:** M647X05571, M647X04271, 647X04271

**Servicing:** M000T80881, M000T88081, M001T74581, M001T74583, M001T74583ZC, M001T75281, M001T75283, M001T76481, M001T90081A

12 **V**, **Length** 12.00, **Lead length** 114.00, **Lead length 2** 32.30, **Height** 12.00, **Thickness** 4.50

## 141259 Brush Set

**Servicing:** M000T85981, M000T86081, M000T93581, M000T93582, M001T85781, M0T85981, M0T86081, M0T93581, M0T93582, M1T85781, MD362207

12 **V**, **Length** 12.50, **Lead length** 34.00, **Lead length 2** 57.00, **Height** 12.00, **Thickness** 4.50

## 141273 Brush Set

**Replacing:** M648C26371

**Servicing:** M002T56071, M002T60071, M002T65271, M002T65272, M002T66873, M002T67884, M002T80582, M2T56071, M2T60071, M2T65271

24 **V**, **Length** 18.15, **Lead length** 26.50, **Height** 17.80, **Thickness** 6.65

## 142006 Brush Set

**Servicing:** M008T61671, M009T60371, M009T60471, M009T60671, M009T60672, M009T61171, M009T61473, M009T61474, M009T61571, M009T61671

24 **V**, **Length** 18.00, **Lead length** 41.50, **Height** 30.00, **Thickness** 8.00

## 142056 Brush Set

**Servicing:** M000T36071, M000T36371, M000T45071ZT, M000T84585, M000T86181, M000T91581, M00T87881, M0T36071, M0T36371, M0T45071ZT

12 **V**, **Length** 12.00, **Height** 12.00, **Thickness** 4.50

**Alternative no.:** B142056

## 142331 Brush Set

**Replacing:** MD611216, M647C00573, M647C00571, M647C00272, M647C00271

**Servicing:** M000T70281, M000T70285, M000T81181, M000T84381, M001T60281, M001T60581, M001T61181, M001T70283, M001T70283ZC

12 **V**, **Length** 17.30, **Lead length** 80.00, **Lead length 2** 31.00, **Height** 11.76, **Thickness** 4.40

*w/o brush bar: HC-CARGO 141037.*

**Alternative no.:** 140559

## 142350 Brush Set

**Servicing:** M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

**Length** 18.00, **Lead length** 40.00, **Height** 30.00, **Thickness** 7.95

## 330182 Brush Set

**Servicing:** 1810A011, M000T20171, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T21671, M000T22471

12 **V**, **Length** 12.20, **Lead length** 35.00, **Height** 11.84, **Thickness** 4.30

## Brushes

Pkg. 100

## B142056 Brush

**Replacing:** B142056

**Servicing:** M000T87081, M000T87881, M001T80381, M001T80481, M0T87081, M0T87881, M1T80381, M1T80481, MOT87881

12 **V**, **Length** 12.00, **Height** 12.00, **Thickness** 4.50

**Alternative no.:** 142056

Pkg. 100

## GAS119 Brush

**Replacing:** M647C01771, M647C00671, M647C00371

**Servicing:** M001T30071, M001T30172, M001T30271, M001T80181, M001T80481, M001T93371ZC, M1T30073, M1T74581, M1T74581ZC, M1T80181

12 **V**, **Length** 18.00, **Lead length** 90.50, **Height** 17.50, **Thickness** 4.50

**Alternative no.:** 140560

Pkg. 100

## GAS120 Brush

**Replacing:** M647C01771, M647C00671, M647C00371

**Servicing:** M001T30071, M001T30172, M001T30271, M001T80181, M001T80481, M001T93371ZC, M1T74581, M1T74581ZC, M1T80181, M1T80481

12 **V**, **Length** 18.00, **Height** 17.50, **Thickness** 4.50

**Alternative no.:** 140560



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## Bushings

Pkg. 10

### 140319 Bushing

**Replacing:** M409D30201

**Servicing:** M000T81981, M000T84585, M000T84781, M000T86081, M000T86181, M000T91581, M001T30072, M001T30171, M001T30173, M001T30271

**ID** 10.00, **OD** 14.00, **Length** 12.00

**Alternative no.:** B140319

Pkg. 10

### 140320 Bushing

**Replacing:** MD602687, MD602686, M410D12171, M410D12071, M410D11271

**Servicing:** A3T22681, M001T50171, M001T50172, M002T10171, M002T20281, M002T50371, M002T50381, M002T50391, M002T50481, M002T50485

**ID** 11.06, **OD** 13.03, **Length** 13.00

**Alternative no.:** B140320

Pkg. 10

### 140321 Bushing

**Replacing:** MD602213, M410D30171, M410D00271, M409D32201

**Servicing:** A3T22681, M002T10171, M002T10271, M002T10471, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23181, M002T23685

**ID** 14.27, **OD** 17.26, **Length** 12.45

**Alternative no.:** B140321

Pkg. 10

### 140322 Bushing

**Replacing:** MM502137, M410D11671

**Servicing:** M005T22175, M005T22176, M5T20172, M5T22175, M5T22176, M5T23272, M5T25373, M5T27672

**ID** 12.23, **OD** 14.36, **Length** 15.70

**Alternative no.:** B140322

Pkg. 10

### 140323 Bushing

**Replacing:** M410D12671

**ID** 14.20, **OD** 16.20, **Length** 15.70

**Alternative no.:** B140323

Pkg. 10

### 140326 Bushing

**Replacing:** MD604062

**Servicing:** MEA07-0, MQJ1R, MQJ2R, PW501783

**ID** 12.54, **OD** 14.72, **Length** 14.00

**Alternative no.:** B140326

Pkg. 10

### 140328 Bushing

**Replacing:** MD604066

**ID** 12.54, **OD** 16.55, **Length** 10.50

**Alternative no.:** B140328

Pkg. 10

### 140428 Bushing

**Replacing:** MD607741, M409C13070, M409C12670

**Servicing:** A3T22681, M002T10171, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23181, M002T23685, M003T10473, M003T10475

**ID** 11.02, **OD** 14.00, **Length** 13.00

**Alternative no.:** B140428

Pkg. 10

### 140429 Bushing

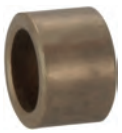
**Replacing:** MD607903, M649C32370, M409C32370

**Servicing:** M002T13081, M002T13281, M002T13581, M002T20181, M002T20181D, M002T23081, M002T25772, M002T30381, M002T30385, M002T30481

**ID** 12.02, **OD** 16.00, **Length** 9.50

**Alternative no.:** B140429

Pkg. 10



### 140430 Bushing

**Replacing:** MD611042, M409C12870

**Servicing:** 1810A011, M000T20171, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T21671, M000T22471

**ID** 10.10, **OD** 14.04, **Length** 9.60



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Pkg. 10

**140466** Bushing

**Servicing:** M002T10171, M002T10271, M002T10471, M002T20181, M002T20181A, M002T20182, M003T10071, M003T10271, M003T10272, M003T10372

**ID** 11.00, **OD** 13.00, **Length** 17.55

Pkg. 10

**140484** Bushing

**Servicing:** M003T61071, M3T61071

**ID** 18.80, **OD** 20.00, **Length** 11.00

Pkg. 10

**140505** Bushing

**Replacing:** M409D01301

**Servicing:** M001T50071, M003T15772, M1T50071, M3T15772, MED03-1

**ID** 17.00, **OD** 20.00, **Length** 8.00

Pkg. 10

**140555** Bushing

**Replacing:** MD607892, M409C13270, M409C12970

**Servicing:** M000T70281, M000T70285, M000T70381, M000T71385, M000T71581, M000T71681, M000T71786, M000T71881, M000T80081, M000T80281

**ID** 10.03, **OD** 14.00, **Length** 12.50

**Alternative no.:** B140555

Pkg. 10

**140586** Bushing

**ID** 12.85, **OD** 14.91, **Length** 21.50

Pkg. 10

**140629** Bushing

**ID** 12.90, **OD** 14.44, **Length** 17.79

**Alternative no.:** B140629

Pkg. 10

**140694** Bushing

**ID** 12.53, **OD** 15.10, **Length** 9.80

**Alternative no.:** B140694

Pkg. 10

**140729** Bushing

**ID** 12.03, **OD** 14.00, **Length** 20.85

**Alternative no.:** B140729

Pkg. 10

**140730** Bushing

**ID** 12.05, **OD** 14.13, **Length** 15.90

Pkg. 10

**140731** Bushing

**Replacing:** MD618334, M409X32571, M409X32471, M409C32470, M409C32401

**Servicing:** 1810A011, 1810A062, M000T20472, 1810A101, 1810A143, M000T20171, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471

**ID** 10.10, **OD/collar** 15.95, **OD** 12.95, **Length** 10.45, **Height/collar** 1.95

Pkg. 10

**140779** Bushing

**ID** 18.93, **OD** 22.09, **Length** 9.00

**Alternative no.:** B140779

Pkg. 10

**140846** Bushing

**Servicing:** M001T70281, M001T70281ZC, M001T70283, M001T70283ZC, M001T85781, M001T90081, M001T90081A, M001T90281, M008T71371

**ID** 19.03, **OD** 22.05, **Length** 9.00

**Alternative no.:** B140846

Pkg. 10

**140908** Bushing

**Servicing:** M002T51082, M002T51083, M002T54571, M002T54572, M002T54771, M002T56171, M002T56181, M002T56182, M002T56185, M002T56272

**ID** 14.20, **OD** 16.04, **Length** 10.60

**Alternative no.:** B140908

Pkg. 10

**140915** Bushing

**Servicing:** M002T80582, M2T80582

**ID** 9.85, **OD** 14.05, **Length** 11.90

Pkg. 10

**140964** Bushing

**Servicing:** M002T50171, M002T50371, M002T50381, M002T52071, M2T50171, M2T50371, M2T50381, M2T52071, MM409410

**ID** 15.77, **OD** 17.02, **Length** 9.81

*Used w/ bearing type 6003: HC-CARGO 140273.*

**Alternative no.:** B140964

Pkg. 10

**140970** Bushing

**Servicing:** M000T86081, M000T86581, M001T80081, M001T80082, M0T86081, M0T86581, M0T880082, M1T80081, M1T80082

**ID** 8.12, **OD** 12.12, **Length** 11.44

**Alternative no.:** B140970

Pkg. 10

**140998** Bushing

**ID** 10.75, **OD** 12.35, **Length** 21.00

Pkg. 10

**140999** Bushing

**Servicing:** M002T62271, M002T63171, M002T65271, M002T65272, M002T66871, M002T66873, M002T67871, M002T67872, M002T67873, M002T67881

**ID** 14.16, **OD** 18.10, **Length** 11.15

Pkg. 10

**141025** Bushing

**Servicing:** M001T30271, M001T60081, M001T60185, M001T60381, M001T70283, M001T70283ZC, M001T70481, M001T70481ZC, M001T70482

**ID** 10.17, **OD** 14.07, **Length** 12.20

Pkg. 10

**141027**# Bushing

**ID** 10.81, **OD** 12.66, **Length** 21.00

Pkg. 10

**141056** Bushing

**ID** 12.16, **OD** 13.84, **Length** 20.00

Pkg. 5

**141131** Bushing

**Servicing:** M003T90071, M003T90072, M3T90071, M3T90072

**ID** 17.10, **OD** 22.10, **Length** 16.20

Pkg. 10

**141145** Bushing

**Servicing:** 1810A062, 1810A143, M000T20171, M000T20871, M000T21671, M000T35471, M000T36071, M000T80281A, M000T80281B, M000T80285

**ID** 8.10, **OD** 11.55, **Length** 11.63

Pkg. 10

**141146** Bushing

**Servicing:** M001T77781, M1T77781

**ID** 10.12, **OD** 14.00, **Length** 12.00

Pkg. 10

**141148** Bushing

**ID** 8.11, **OD** 10.93, **Length** 11.25



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Pkg. 10

**141150** Bushing
**ID** 11.00, **OD** 13.00, **Length** 12.60

Pkg. 10

**141151** Bushing
**ID** 14.25, **OD** 17.25, **Length** 9.15

Pkg. 10

**141220** Bushing
**Servicing:** M001T50471, M1T50471
**ID** 10.95, **OD** 13.06, **Length** 13.10

Pkg. 10

**141243** Bushing
**Servicing:** M191X68471
**ID** 13.04, **OD** 15.05, **Length** 21.00

Pkg. 10

**142022** Bushing
**Servicing:** M000T45071ZT, M000T45171, M000T45171ZT, M000T45271, M000T45271ZT, M000T45371ZT, M000T46171ZT, M0T45071ZT, M0T45171
**ID** 9.05, **OD** 13.00, **Length** 8.50

Pkg. 10

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**142025** Bushing
**Servicing:** M357T70171, M357T70571, M357T70771, M357T71687, M357T71871, M357T78071
**ID** 10.00, **OD** 11.62, **Length** 14.15

Pkg. 10

**142057** Bushing
**Servicing:** M000T20171, M000T20871, M000T21671, M000T35471, M000T36071, M0T20871, M0T35471, M0T36071
**ID** 17.60, **OD** 20.90, **Length** 7.40

Pkg. 10

**142349** Bushing
**Servicing:** M002TS0571, M002TS0575, M2TS0571, M2TS0575
**ID** 11.03, **OD** 16.05, **Length** 13.00

Pkg. 10

**332635** Bushing
**Servicing:** 1810A053, M002T87071, M002T87071ZT, M002T87072ZT, M2T87071, M2T87071ZT, M2T87072ZT, MD312858
**ID** 10.10, **OD** 12.98, **Length** 12.00

Pkg. 10

**332775** Bushing
**ID** 8.10, **OD** 12.03, **Length** 11.10

Pkg. 100

**B140319** Bushing
**Replacing:** M409D30201
**Servicing:** M000T86181, M000T87881, M001T30071, M001T30172, M001T30271, M001T80381, M008T62671, M0T86181, M0T87881, M1T30073
**ID** 10.00, **OD** 14.00, **Length** 12.00
**Alternative no.:** 140319

Pkg. 100

**B140320** Bushing
**Replacing:** MD602687, MD602686, M410D12171, M410D12071, M410D11271
**Servicing:** MM409410
**ID** 11.06, **OD** 13.03, **Length** 13.00
**Alternative no.:** 140320

Pkg. 100

**B140321** Bushing
**Replacing:** MD602213, M410D30171, M410D00271, M409D32201
**ID** 14.27, **OD** 17.26, **Length** 12.50
**Alternative no.:** 140321



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Pkg. 100

**B140322** Bushing
**Replacing:** MM502137, M410D11671
**ID** 12.23, **OD** 14.37, **Length** 15.65
**Alternative no.:** 140322

Pkg. 100

**B140323** Bushing
**Replacing:** M410D12671
**ID** 14.20, **OD** 16.20, **Length** 15.70
**Alternative no.:** 140323

Pkg. 100

**B140326** Bushing
**Replacing:** MD604062
**ID** 12.55, **OD** 14.72, **Length** 14.00
**Alternative no.:** 140326

Pkg. 100

**B140328** Bushing
**Replacing:** MD604066
**ID** 12.54, **OD** 16.55, **Length** 10.50
**Alternative no.:** 140328

Pkg. 100

**B140428** Bushing
**Replacing:** MD607741, M409C13070, M409C12670
**ID** 11.02, **OD** 14.00, **Length** 13.00
**Alternative no.:** 140428

Pkg. 100

**B140429** Bushing
**Replacing:** MD607903, M649C32370, M409C32370
**Servicing:** MD335584
**ID** 12.02, **OD** 16.00, **Length** 9.50
**Alternative no.:** 140429

Pkg. 100

**B140555** Bushing
**Replacing:** MD607892, M409C13270, M409C12970
**Servicing:** M000T82081, M000T82081ZE, M000T84881, M000T84881ZC, M000T85381, M000T87081, M001T84382ZC, M0T82081, M0T82081ZE
**ID** 10.03, **OD** 14.00, **Length** 12.50
**Alternative no.:** 140555

Pkg. 100

**B140629**# Bushing
**Replacing:** 140629
**ID** 12.90, **OD** 14.44, **Length** 17.79
**Alternative no.:** 140629

Pkg. 100

**B140694**# Bushing
**Replacing:** 140694
**ID** 12.53, **OD** 15.10, **Length** 9.80
**Alternative no.:** 140694

Pkg. 100

**B140729** Bushing
**Replacing:** 140729
**Servicing:** M001T30271
**ID** 12.03, **OD** 14.00, **Length** 20.85
**Alternative no.:** 140729

Pkg. 100

**B140779** Bushing
**Replacing:** 140779
**ID** 18.93, **OD** 22.09, **Length** 9.00
**Alternative no.:** 140779

Pkg. 100

**B140846** Bushing
**Replacing:** 140846
**Servicing:** M008T71371ZE, M008T71471ZE, M8T71371ZE, M8T71471ZE, M8T75371
**ID** 19.03, **OD** 22.05, **Length** 9.00
**Alternative no.:** 140846



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#Available while stock last, * Program development.

Pkg. 100

**B140908** Bushing
**Replacing:** 140908
**Servicing:** M009T61971, M009T62671, MM409412
**ID** 14.17, **OD** 16.05, **Length** 10.40
**Alternative no.:** 140908

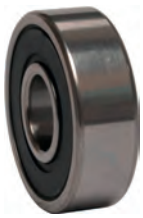
Pkg. 100

**B140970** Bushing
**Replacing:** 140970
**Servicing:** M0T86581
**ID** 8.12, **OD** 12.12, **Length** 11.44
**Alternative no.:** 140970

## Bearings

### Ball Bearings

Pkg. 10



**140222** **FAG** 608-2RS-C3 Ball Bearing
**Replacing:** S930P62070, S930P14201, S930P12070
**Servicing:** M001T50071, M001T50171, M001T50172, M001T50471, M001T70281, M001T70281ZC, M001T70481, M001T70481ZC, M001T70482
**ID** 8.00, **OD** 22.00, **Height** 7.00
**Alternative no.:** 142279, 333106

Pkg. 26

**140224** 6902-2RS-P Ball Bearing
**ID** 15.00, **OD** 28.00, **Height** 7.00

Pkg. 10

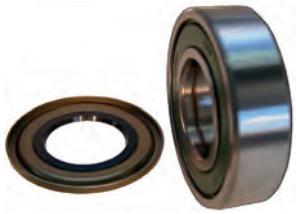
**140271** **FAG** 6000-C-2HRS-C3 Ball Bearing
**Replacing:** S930P14101
**Servicing:** M002T80582, M002T87971, M003T61071, M003T61171, M2T80582, M2T87971, M3T61071, M3T61171, MD344182, MM409411
**ID** 10.00, **OD** 26.00, **Height** 8.00
**Alternative no.:** 142277, 333099

Pkg. 10

**140412** M410X12971 Ball Bearing
**Replacing:** ME700849, M410X12971
**Servicing:** 34466-15101, 34466-15102, M001T50171, M001T50172, M002T50391, M002T51082, M002T51083, M002T51085, M002T51181
**ID** 19.00, **OD** 37.00, **Height** 9.00, **Bushing** w/

**CAR GO** **High Performance**

**140868** 6906-2RS1 Ball Bearing
**Servicing:** M000T60081, M000T60081A, M001T60081, M001T60181, M001T60185, M001T60281, M001T60285, M001T60285A, M001T60381
**ID** 30.00, **OD** 47.00, **Height** 9.00



**141009** Ball Bearing Kit
**Replacing:** ME701484, M690X00572, M690X00571
**Servicing:** M008T55171, M008T70371, M008T71571, M008T75171, M008T77071, M008T77072, M008T77074, M008T77075, M008T80071, M008T80071A
**ID** 20.00, **OD** 42.00, **Height** 12.00
*Oil seal: 20.00x38.20x2.40 mm.*

**141038** Ball Bearing Kit
**Replacing:** M410X14171
**Servicing:** M002T57871, M002T57881, M002T61771, M002T67881, M002T67882, M002T67883, M002T67884, M002T69081, M002T78372, M002T78381
**ID** 20.00, **OD** 42.00, **Height** 12.00, **Bushing** w/
*w/ gasket.*

**141166** Ball Bearing
**Replacing:** 6906DW
**Servicing:** M000T60081, M000T60181, M001T60281, M001T60285, M001T60381, M0T60081, M0T60181, M0T60187, M1T60281, M1T60285, M1T60381
**ID** 30.00, **OD** 47.00, **Height** 9.00

Pkg. 10

**142005** 6805-2RS Ball Bearing
**Replacing:** 6805D2
**Servicing:** A003TA6581A, A003TA6581AK, A003TA6581KD, A3TA6581A, A3TA6581AKD, A3TA6581KD, M009T60471, M009T60672, M009T61171
**ID** 25.00, **OD** 37.00, **Height** 7.00



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#Available while stock last, * Program development.

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**142021** **FAG** F-845204.62/28 Ball Bearing

**Servicing:** 39MT, M009T80472, M009T80473, M009T83671, M009T83672, M9T80472, M9T80473, M9T83671, M9T83672

**ID** 28.00, **OD** 58.00, **Height** 16.00, **Lock ring** w/, **Teflon ring** w/
*w/ 2 internal grooves.*

## Needle Bearings

Pkg. 5

**140381** 5★ Needle Bearing

**ID** 22.00, **OD** 28.00, **Height** 12.00

Pkg. 10

**140514** Needle Bearing

**Replacing:** S933P65270

**Servicing:** M002T92071, M002T92071A, M002T92171, M002T92172, M002T92172A, M2T92071, M2T92071A, M2T92171, M2T92172, M2T92172A

**ID** 12.00, **OD** 17.00, **Height** 12.00

Pkg. 10

**140738** 5★ Needle Bearing

**Replacing:** S933P70669, S933P70605

**Servicing:** M000T82081, M000T82081ZE, M000T85381, M000T86181, M001T74781, M001T74781A, M001T74785, M001T80481, M001T85682

**ID** 10.00, **OD** 15.00, **Height** 15.00
*Closed end. w/ rubber seal.*

Pkg. 5

**140876** Needle Bearing

**Servicing:** M002T61071, M002T61072, M002T61171, M002T62271, M002T63171, M002T66871, M002T66873, M002T67871, M002T67872, M002T67873

**ID** 14.00, **OD** 18.72, **Height** 12.00

Pkg. 5

**140920** 5★ Needle Bearing

**Servicing:** 1810A062, 1810A143, M000T86081, M001T30271, M001T80381, M002T80582, M002T84771, M002T87671, M002T88071, M002T88271

**ID** 17.46, **OD** 22.23, **Height** 9.40

Pkg. 10

**141065** Needle Bearing

**Servicing:** M008T50071, M008T50072, M008T62671, M008T70371, M008T71571, M008T75071, M008T75073, M008T75074ZT, M008T75171

**ID** 20.50, **OD** 27.00, **Height** 9.50

Pkg. 5

**141090** Needle Bearing

**Servicing:** 1810A053, M002T80582, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T85271, M002T87071

**ID** 10.00, **OD** 15.05, **Height** 11.60x15.40
*Closed end.*

**Alternative no.:** B141090

**331936** Needle Bearing

**Servicing:** M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M1T93071, M1T93171, M1T93171ZC, M1T93371ZC, M1T93571

**ID** 14.00, **OD** 20.00, **Height** 13.90

## Sundry Parts

### Covers

**137427** Cover Kit

**Replacing:** MD607940, M212X14471

**Servicing:** M002T51181, M002T51281, M002T51282, M002T53882, M002T53883, M002T54091, M002T54771, M2T51181, M2T51281, M2T51282

**137545** Cover Kit

**Replacing:** ME700125, M212X11771

**Servicing:** M002T51082, M002T51083, M002T54271, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T56171

**137546** Cover Kit

**Replacing:** ME700973, M212X11573

**Servicing:** M002T57871, M002T57881, M002T61771, M002T62271, M002T66871, M002T66873, M002T67871, M002T67872, M002T67873, M002T67881



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#Available while stock last, * Program development.

Pkg. 5

**230549** Cap

**Replacing:** M234X54371

**Servicing:** M000T60081, M001T60281, M001T60285, M001T60381, M0T60081, M191X13471, M191X13571, M1T60281, M1T60285, M1T60381

**OD** 17.00, **Height** 8.15

## Oil Seals

**133020** Oil Seal

**Replacing:** S806P94103, S806P10901

**Servicing:** M003T54071, M003T54072, M003T56174, M003T56181, M003T56182, M003T56183, M005T50176, M2T64471, M3T54071, M3T54072

**ID** 16.55, **OD** 35.25, **Height** 6.90

Pkg. 10

**135940** Oil Seal

**Replacing:** S806P94203

**Servicing:** 34466-15101, 34466-15102, M002T56471, M002T56472, M002T56475, M002T60271, M002T61371, M002T65271, M002T65272

**ID** 18.50, **OD** 42.15, **Height** 6.50

Pkg. 5

**230759** Seal

**Servicing:** 1810A050, 1810A050R, 32A66-10101, M008T61671, M008T62671, M008T70371, M008T70471, M008T70471A, M008T71571, M008T75071A

**ID** 21.00, **OD** 38.00, **Height** 2.45

Pkg. 10

**233591** Oil Seal

**Servicing:** M002T62271, M002T74371, M2T62271, M2T74371

**ID** 18.75, **OD** 34.20, **Height** 4.90

Pkg. 10

**236453** Oil Seal

**Servicing:** M009T60371, M9T60371

**ID** 23.00, **OD** 42.00, **Height** 3.25

Pkg. 10

**237101** Gasket

**Servicing:** M009T60471, M009T60671, M009T60672, M009T61171, M009T61473, M009T61474, M009T61671, M009T61971, M009T62172, M009T62671

**ID** 24.30, **OD** 42.00, **Height** 2.90

## O-rings

Pkg. 10

**134484** O-ring

**Replacing:** M578D13501

**Servicing:** M002T54271, M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56471, M002T56472, M002T57671, M002T57671A

**ID** 5.00, **Thickness** 2.00

Pkg. 10

**134485** O-ring

**Replacing:** M816D00701

**Servicing:** M002T54371, M002T54372, M002T54471, M002T54572, M002T54671, M002T56471, M002T56472, M002T57671, M002T57671A, M002T57673

**ID** 4.00, **Thickness** 2.00

Pkg. 10

**134486** O-ring

**ID** 8.00, **Thickness** 2.00

Pkg. 10

**134487** O-ring

**Servicing:** M008T62671, M009T60371, M009T60471, M009T60671, M009T60672, M009T61171, M009T61473, M009T61474, M009T61571, M009T62172

**ID** 10.00, **Thickness** 2.00

Pkg. 10

**134489** O-ring

**ID** 43.00, **Thickness** 2.00



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Pkg. 10

## 139205 O-ring

**Replacing:** MD618547, M578X26871

**Servicing:** M000T60081, M000T60081A, M000T60181, M000T60181A, M000T65381, M000T70281, M000T70285, M000T70381, M000T71385

**ID** 52.50, **Thickness** 4.85,
**Material** Rubber

Pkg. 10

## 231891 O-ring

**Servicing:** M002T54372, M002T54571, M002T54572, M002T54671, M002T56471, M002T56472, M002T57671A, M002T57673A, M002T57871

**ID** 46.50, **Thickness** 1.90

### Thru Bolts

Pkg. 10

## 135982 Through Bolt

**Replacing:** M981S70202

**Servicing:** M000T71681, M003T30881, M003T33081, M003T38881, M003T38881A, M003T38881B, M003T38881C, M003T38882, M003T38882A

**Total length** 137.00,
**Length/rear collar** 121.05,
**Thread length** 19.06, **Thread size** M5,
**Thread size/rear** M5

## 136359 Through Bolt Kit

**Replacing:** MD602738, M981X74671, M901X00371

**Servicing:** 1810A050, 1810A050R, 32A66-10101, M002T54271, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671

**Total length** 167.45,
**Length/rear collar** 161.25,
**Thread length** 33.90, **Thread size** M6

Pkg. 10

## 191531 Through Bolt

**Replacing:** M901X01571

**Servicing:** M003T24481, M003T24482A, M003T25783, M3T24481, M3T24482A, M3T24485, M3T25783

**Total length** 89.40,
**Length/rear collar** 85.10,
**Thread length** 25.30, **Thread size** M6

## 231122 Through Bolt

**Replacing:** M901X00171

**Servicing:** 1810A062, 1810A143, M001T93071, M001T93171ZC, M001T93371, M001T93371ZC, M001T93571, M002T10471, M003T10372, M003T10473

**Total length** 138.35,
**Length/rear collar** 132.30,
**Thread length** 35.85, **Thread size** M6

Pkg. 2

## 231345 Through Bolt Kit

**Replacing:** M981C74201

**Servicing:** 1810A101, M001T30071, M001T30072, M001T30171, M001T30172, M001T30173, M001T30271, M001T75283, M001T80081, M001T80082

**Thread** M5, **Total length** 144.00,
**Thread length** 33.00

## 231393 Through Bolt Kit

**Replacing:** M981X75371

**Servicing:** M002T60072, M002T60171, M002T60172, M002T92071, M2T60072, M2T60171, M2T60172, M2T92071, MD072654, MD095865

**Thread** M6, **Total length** 183.50,
**Thread length** 30.30

## 231394 Through Bolt

**Replacing:** M981C73901

**Servicing:** M001T74081, M001T74491, M001T75181, M001T75181A, M001T75681, M001T76281, M001T90081, M001T90081A, M002T24181

**Total length** 153.00,
**Length/rear collar** 149.00,
**Thread length** 34.40, **Thread size** M5



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#Available while stock last, * Program development.

**231399** Through Bolt

**Replacing:** M981C74001

**Servicing:** M001T50172, M001T50471, M002T50171, M002T50181, M002T50281, M002T50285, M002T50371, M002T50381, M002T50391, M002T50481

**Total length** 78.00,
**Length/rear collar** 73.20,
**Thread length** 36.80, **Thread size** M5

Pkg. 5

**231505** Through Bolt Kit

**Replacing:** MD618969, M981X72874

**Servicing:** 1810A053, M002T84071, M002T85671, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T84771, M002T85271

**Thread** M6, **Total length** 155.00,
**Thread length** 33.65

**231683** Through Bolt Kit

**Replacing:** M981X73274

**Servicing:** M000T36071, M000T36071ZE, M000T36371, M000T36971, M000T36971ZE, M000T45071ZT, M000T45171, M000T45171ZT, M000T45271

**Thread** M5, **Total length** 118.00,
**Thread length** 17.60

## Various

**132639** Stop Collar Kit

**Replacing:** M385X01273

**Servicing:** M005T22175, M005T22176, M5T20172, M5T22175, M5T22176, M5T23272, M5T25373, M5T27672

**ID** 14.20, **OD** 20.50, **Height** 6.80

**133021** Stop Collar Kit

**Replacing:** M385X03771

**Servicing:** 1810A050, 1810A050R, 32A66-10101, M002T54271, M002T54371, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671

**ID** 15.00, **OD** 21.00, **Height** 6.00

**134851** Stop Collar Kit

**Replacing:** MD611212, M385X04772

**Servicing:** M000T21671, M000T30471, M000T30571, M000T36071, M000T36071ZE, M000T36371, M000T70281, M000T70285, M000T70381

**ID** 12.10, **OD** 17.40, **Height** 4.30

Pkg. 5

**134948** Snap Ring

**Replacing:** M981D61301

**Servicing:** M002T51082, M002T51083, M002T51085, M002T51805, M002T54771, M002T57371, M2T51082, M2T51083, M2T51085, M2T51805

**ID/housing** 15.20, **OD/housing** 18.80,
**Thickness** 1.00

**134949** Stop Collar Kit

**Replacing:** MD602720, M385X03371, M385X00272

**Servicing:** A3T22681, M002T10171, M002T10471, M002T20181, M002T20181A, M002T20281, M002T80582, M003T10172, M003T10372, M003T10473

**ID** 13.00, **OD** 17.50, **Height** 6.80

**134950** Stop Collar Kit

**Replacing:** MD607416, M385X03471

**Servicing:** M001T50172, M001T50471, M002T10271, M002T50171, M002T50181, M002T50281, M002T50285, M002T50371, M002T50381, M002T50391

**ID** 13.50, **OD** 19.00, **Height** 6.00

**134951** Stop Collar Kit

**Replacing:** M385X04671

**Servicing:** M002T84771, M002T88671, M003T27685, M003T27686, M2T84771, M2T88671, M3T27685, M3T27686

**ID** 13.00, **OD** 17.50, **Height** 4.70

**134952** Stop Collar Kit

**Replacing:** MD607893, M385X04771, M385X04571

**Servicing:** M001T79681, M001T79781, M002T13081, M002T13281, M002T13581, M002T20181, M002T20181D, M002T30381, M002T30385, M002T30481

**ID** 12.00, **OD** 17.40, **Height** 4.50

**135368** Stop Collar Kit

**Replacing:** M385X05071

**Servicing:** 1810A011, 1810A062, 1810A101, 1810A143, M000T20171, M000T20472, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE

**ID** 12.00, **OD** 17.50, **Height** 5.00



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Pkg. 10

## 135574 Steel Ball

**Replacing:** S409S00008

**Servicing:** 1810A050, 1810A050R, 1810A053, 1810A062, 1810A101, 1810A143, 32A66-10101, M000T60081, M000T60081A, M000T60181

**OD** 6.35, **Material** Steel

## 135979 Spring Kit

**Replacing:** MD602963, M389X10871

**Servicing:** M001T50172, M002T10171, M002T10271, M002T20181, M002T20181A, M002T20182, M002T20281, M002T23081, M002T25772, M002T50171

**OD** 19.55, **Length** 14.50

## 137457 Spring Kit

**Replacing:** ME700134, M389X12371, M389X11473

**Servicing:** M002T54271, M002T54371, M002T54372, M002T54471, M002T54671, M002T56471, M002T56472, M002T56475, M002T57871, M002T57881

## 137758# Washer

**Servicing:** M002T67881, M002T67882, M002T67883, M002T67884, M2T67881, M2T67882, M2T67883, M2T67884, ME017036, ME017085, ME017089

**ID** 13.25, **OD** 25.75, **Thickness** 0.50, **Material** Steel

## 137927# Spring Kit

**Replacing:** M389X10878

**Servicing:** M001T50471, M002T23685, M002T24081, M002T24181, M002T25083, M002T25481, M002T25581, M002T25681, M003T26781, M1T50471

**OD** 19.45, **Length** 14.70

Pkg. 10

## 138889 Stop Collar Kit

**Replacing:** M385X05371

**Servicing:** M000T45071ZT, M000T45171, M000T45171ZT, M000T45271, M000T45271ZT, M000T45371ZT, M000T46171ZT, M000T60081, M000T60081A

**ID** 12.00, **OD** 15.00, **Height** 5.50

## 139203 Screw Set

**Replacing:** MD607887, M414X00474

**Servicing:** 1810A011, 1810A101, M000T20171, M000T20472, M000T20871, M000T20871ZE, M000T20872, M000T20872ZE, M000T21671, M000T22472

**Thread** M6, **Thread 2** M5, **Thread length** 22.00/7.50

## 139411 Spring Kit

**Replacing:** MM502330, M389X10877

**Servicing:** A3T22681, M002T10471, M002T50391, M002T51181, M002T51281, M002T51282, M002T52281, M002T58381, M002T58481, M002T58581

## 139414 Spring Kit

**Replacing:** MD619001, MD607446, M389X11482, M389X11472

**Servicing:** M002T56171, M002T56181, M002T56182, M002T56185, M002T56271, M002T56272, M002T57271, M002T57273, M002T57771, M002T57773

**Length** 55.00

## 139539 Stop Collar Kit

**Replacing:** MD618964, M385X05971

**Servicing:** 1810A053, M002T84071, M002T84071ZT, M002T84171, M002T84171ZT, M002T84571, M002T85271, M002T87071, M002T87071ZT

**ID** 13.10, **OD** 18.40, **Height** 5.00

## 230999 Screw Set

**Replacing:** M414X00472, M414X00171

**Servicing:** 1810A062, 1810A143, M000T21471, M000T22471, M000T32171, M000T32172, M000T32172ZE, M000T32173ZE, M000T32177, M000T32271

**Thread** M5, **Thread 2** M6, **Thread length** 7.50/22.00

## 231001 Washer Kit

**Replacing:** MD607896, M900X02471

**Servicing:** M002T13081, M002T13281, M002T13581, M002T20181, M002T20181D, M002T30381, M002T30385, M002T30481, M002T30581, M002T30585



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## 231120 Screw Set

**Replacing:** M414X00487, M414X00471

**Servicing:** 1810A050R, A3T22681, M002T84071, M002T84171, M002T84571, M002T85271, M002T85671, M002T85672, M002T87071, M002T87171

**Thread** M6, **Thread 2** M5,
**Total length** 26.50/15.50,
**Thread length** 22.00/11.00,
**Slot type** Phillips, Pozidriv

## 231388 Screw Set

**Replacing:** ME700131, M414X04872, M414X04871

**Servicing:** M002T54271, M002T54372, M002T54471, M002T54571, M002T54572, M002T54671, M002T56171, M002T56181, M002T56182, M002T56185

**Thread** M5, **Thread 2** M6/M6,
**Thread length** 12.00/30.00/42.00

Pkg. 10

## 231581 Washer Kit

**Replacing:** ME701436, M982X38871

**Servicing:** 1810A050R, 32A66-10101, M008T55171, M008T60071, M008T60071A, M008T60371, M008T60372, M008T60373, M008T60871, M008T60872

**ID** 21.25, **OD** 36.60, **Thickness** 0.80,
**Material** Steel

Pkg. 10

## 231684 Stop Collar Kit

**Replacing:** M385X04871

**Servicing:** M000T80281, M000T80281A, M000T80281B, M000T80281ZC, M000T80285, M000T80285A, M000T85981, M0T70881, M0T80281, M0T80281A

**ID** 12.10, **OD** 17.40, **Height** 6.50

Pkg. 10

## 232597# O-ring

**Servicing:** M003T90071, M003T90072, M3T90071, M3T90072

Pkg. 5

## 233060# Retaining Ring

**OD/housing** 13.00, **Thickness** 1.75,
**Material** Steel
*Included in HC-CARGO 134949.*

Pkg. 5

## 233164 Drain Tube

**Servicing:** 1810A053, 1810A062, 1810A143, 32A66-10101, M000T30771, M000T45171, M000T45171ZT, M000T71681, M000T80381, M000T81281

**ID** 7.70, **OD** 11.55, **Length** 9.90

## 233541# Connection

**Servicing:** M001T60281, M001T60285, M001T60285A, M001T70985, M001T71681, M1T60281, M1T60285, M1T60285A, M1T70985, M1T71581

## 234972 Stop Collar Kit

**ID** 13.50, **OD** 17.50/19.00, **Height** 6.00

## 235002 Stop Collar Kit

**ID** 15.10, **OD** 19.40/20.80, **Height** 6.10

## 235003 Stop Collar Kit

**Servicing:** M008T61671, M8T61671

**ID** 15.10, **OD** 19.40/20.80, **Height** 5.90

Pkg. 10

## 236094 Drain Tube

**Servicing:** 1810A011, 1810A101, M000T20871ZE, M000T20872, M000T20872ZE, M000T21471, M000T32271, M000T32571ZE, M000T32572ZE



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 236445 Gasket

**Servicing:** M008T62671, M009T60371, M009T60471, M009T60671, M009T60672, M009T61171, M009T61671, M009T61971, M009T62172, M009T62671

**OD** 44.50, **Thickness** 3.50

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Pkg. 10

## 236778 Gasket

**Servicing:** M000T36371, M000T87681, M000T90981, M0T36371, M0T87681, M0T90981

**Thickness** 5.40

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## 236782 B+ terminal

**Servicing:** M000T87681, M000T90981, M0T87681, M0T90981

**Total length** 46.00, **Thread length** 13.40, **Thread size** M8

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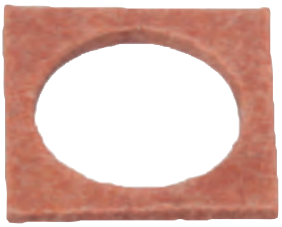
Pkg. 100



## 332612 Gasket

**Servicing:** 1810A050R, M000T20171, M000T21671, M000T22471, M000T84881, M000T84881ZC, M000T87681, M001T30271, M002T85271, M002T88471

**ID** 8.00, **OD** 10.50, **Thickness** 0.50, **Type** Starter, **Material** Fiber

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## D.E. Brackets

**330720** D.E. Bracket
**Replacing:** M640X30271

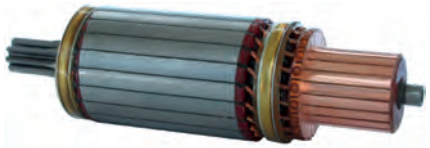


All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Armatures

### 12 V



**134971** Armature

**Replacing:** 7-23100-0330, 7-23100-0240, 7-23100-0201, 7-23100-0200, 7-23100-0160, 0-23100-0201, 0-23100-0200

**Servicing:** 0-23000-0081, 0-23000-0091, 0-23000-0120, 0-23000-0130, 0-23000-0172, 0-23000-0173, 0-23000-0210, 0-23000-0260

12 **V**, 2.2 **kW**, **Shaft length** 174.30, **Core thickness** 48.40, **No./teeth** 8, **Rotation** CR/ACR

**135703** Armature

**Replacing:** 7-23100-0090

**Servicing:** 0-23000-1010, 0-23000-1020, 0-23000-1040, 0-23000-1300

12 **V**, 2.2 **kW**, **Shaft length** 180.00, **Core thickness** 60.00, **No./teeth** 8, **Rotation** CR/ACR

### 24 V

**132534** Armature

**Replacing:** 1-81121-0070, 1-21100-1190

**Servicing:** 0-21000-3271, 0-21000-3480, 0-21000-3491, 0-21000-3520, 0-21000-3650, 0-21000-3651, 0-21000-3661, 0-21000-3690

24 **V**, 3.7/5.2 **kW**, **Shaft length** 355.80, **Core thickness** 82.65, **No./splines** 15, **Rotation** CR

**132536** Armature

**Replacing:** 7-23100-0290, 7-23100-0040, 1-23100-0120, 0-23100-0121

**Servicing:** 0-23000-6070, 0-23000-6071, 0-23000-6072, 0-23000-6091, 0-23000-6103, 0-23000-6140, 0-23000-6150, 0-23000-6160

24 **V**, 7.5 **kW**, **Shaft length** 219.20, **Core thickness** 74.40, **No./teeth** 9, **Rotation** CR/ACR

**132537** Armature

**Replacing:** 7-23100-0070

**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080

24 **V**, 4.5 **kW**, **Shaft length** 180.50, **Core thickness** 59.95, **No./teeth** 8, **Rotation** CR/ACR

*Bearing C.E.: HC-CARGO 140080. Bearing D.E.: HC-CARGO 140285.*

**132539** Armature

**Replacing:** 7-23100-0250, 7-23100-0171, 7-23100-0170, 7-23100-0140, 1-23100-0170, 0-23100-0171

**Servicing:** 0-23000-0040, 0-23000-0060, 0-23000-0100, 0-23000-0150, 0-23000-0180, 0-23000-0200, 0-23000-0250, 0-23000-0272

24 **V**, 2.8 **kW**, **Shaft length** 186.10, **Core thickness** 48.40, **No./teeth** 8, **Rotation** CR/ACR

*Bearing C.E.: HC-CARGO 140297. Bearing D.E.: HC-CARGO 140285.*

**133391** Armature

**Replacing:** 7-23100-0220, 7-23100-0190, 1-23100-0160, 0-23100-0161

**Servicing:** 0-23000-1160, 0-23000-1170, 0-23000-1190, 0-23000-1230, 0-23000-1231, 0-23000-1240, 0-23000-1270, 0-23000-1290

24 **V**, 5.5 **kW**, **Shaft length** 191.00, **Core thickness** 59.60, **No./teeth** 11

*Bearing C.E.: HC-CARGO 140080. Bearing D.E.: HC-CARGO 140286.*

**135667** Armature

**Replacing:** 0-23100-0231, 0-23100-0230

**Servicing:** 0-23000-6232, 0-23000-6251, 0-23000-6253, 0-23000-6341, 0-23000-6343, 0-23000-6512, 0-23000-6520, 0-23000-6523

24 **V**, 7.5 **kW**, **Shaft length** 209.50, **Core thickness** 74.40, **No./splines** 9, **Rotation** CR/ACR

**135668** Armature

**Replacing:** 7-23100-0310, 0-23100-0251

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3250, 0-23000-3270

24 **V**, 7.5 **kW**, **Shaft length** 213.60, **Core thickness** 64.90, **No./teeth** 9, **Rotation** CR/ACR

**137074** Armature

**Replacing:** 1-21100-1370

**Servicing:** 0-21000-4720, 0-21000-4721, 0-21000-4930, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5020

24 **V**, 3.5 **kW**, **Shaft length** 305.00, **Core thickness** 74.50, **No./splines** 12, **Rotation** CR



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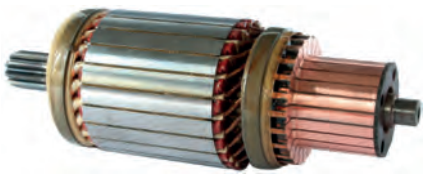
#Available while stock last, * Program development.



**137543** 5★ Armature
**Manufacturer:** Nikko
**Replacing:** 0-23100-0381, 0-23100-0380
**Servicing:** 0-23000-2100, 0-23000-2101, 0-23000-2200, 0-23000-2201, 0-23000-2541
24 **V**, 4.5 **kW**, **Shaft length** 177.15, **Core thickness** 60.17, **No./teeth** 9

**234103** Armature
**Replacing:** 0-23100-0430
**Servicing:** 0-23000-7671, 0-23000-7731, 0-23000-8061, 0-23000-8111
24 **V**, 11 **kW**, **Shaft length** 212.00, **Core thickness** 74.65, **No./teeth** 10

## Field Cases

**135678** 5★ Field Case
**Manufacturer:** Nikko
**Replacing:** 0-23200-0560
**Servicing:** 0-23000-1940, 0-23000-2030, 0-23000-2040, 0-23000-2050, 0-23000-2100, 0-23000-2150, 0-23000-2180, 0-23000-2190
24 **V**, 4.5 **kW**, **OD/middle** 90.00, **Length** 105.20, **Brush gear** w/o

**235751** Field Case
**Replacing:** 0-23200-0150
**Servicing:** 0-23000-6510, 0-23000-6850, 0-23000-6901, 0-23000-7091, 0-23000-7511
24 **V**, 7.5 **kW**, **OD/middle** 113.86, **Length** 116.72, **Rotation** CR, **Brush gear** w/o

## Field Coils

### 24 V

**132530** Field Coil
**Replacing:** 0-23230-0110
**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080
24 **V**, 4.5 **kW**, **Height** 104.50, **Internal height** 61.60, **Inner width** 23.30

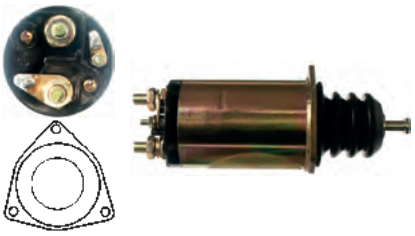
**132531** Field Coil
**Replacing:** 0-23230-0150
**Servicing:** 0-23000-6211, 0-23000-6232, 0-23000-6250, 0-23000-6251, 0-23000-6310, 0-23000-6341, 0-23000-6510, 0-23000-6523
24 **V**, 7.5 **kW**, **Height** 119.30, **Internal height** 60.60, **Inner width** 26.25

**133392** Field Coil
**Replacing:** 0-23230-0210
**Servicing:** 0-23000-1160, 0-23000-1170, 0-23000-1230, 0-23000-1231, 0-23000-1240, 0-23000-1270, 0-23000-1290, 0-23000-1292
24 **V**, 5.5 **kW**, **Height** 123.15, **Internal height** 69.35, **Inner width** 22.75

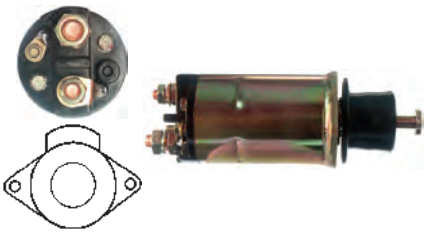
**135669** Field Coil
**Replacing:** 0-23230-0281
**Servicing:** 0-23000-3150, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230, 0-23000-3240, 0-23000-3250
24 **V**, 7.5 **kW**, **Height** 107.65, **Internal height** 74.00, **Inner width** 23.55

## Solenoids

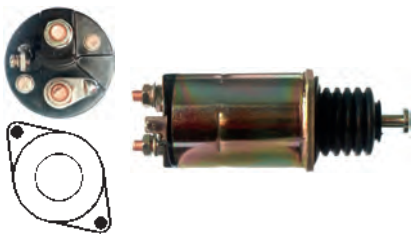
### 12 V



**132495** Solenoid
**Replacing:** 0-47100-3031, 0-47100-3030, 0-47100-2690, 0-47100-2650
**Servicing:** 0-21000-3271, 0-21000-3480, 0-21000-3520, 0-21000-3650, 0-21000-3661, 0-21000-3690, 0-21000-3711, 0-21000-3783
24 **V**, **B+** M10, **Kl. 50** M5, **OD** 70.00, **OD/cover** 69.45, **Total length** 215.70, **Height/B+** 28.50, **Width/kl. 50** 18.75, **Coil bolt** M10, **Coil bolt 2** 28.00, **No./terminals** 3
*Cap: HC-CARGO 138897.*



**133852** Solenoid
**Replacing:** 0-47100-4270
**Servicing:** 28MT
12 **V**, **B+** M10, **Kl. 50** M5, **OD** 57.00, **OD/cover** 57.00, **Total length** 175.00, **Height/B+** 16.50, **Width/kl. 50** 7.50, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3
*Cap: HC-CARGO 134841. Terminal switch: M5.*



**134632** Solenoid
**Replacing:** 0-47100-4071, 0-47100-4070
**Servicing:** 0-23000-0171, 0-23000-0172, 0-23000-0173, 0-23000-0210
12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 57.30, **OD/cover** 56.85, **Total length** 165.00, **Height/B+** 17.55, **Width/kl. 50** 11.30, **Coil bolt** M8, **Coil bolt 2** 17.25, **No./terminals** 3
*Cap: HC-CARGO 139511. Moving contact: HC-CARGO 139512.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

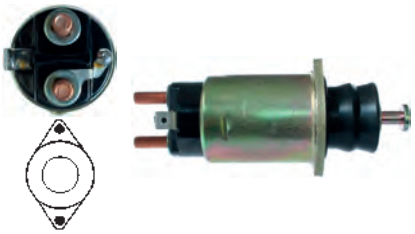
## 134974 5★ Solenoid

**Manufacturer:** Nikko

**Replacing:** 0-47100-3901, 0-47100-3900

**Servicing:** 0-23000-0130, 0-23000-0260, 0-23000-0261, 0-23000-0262

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 54.15, **OD/cover** 54.85, **Total length** 167.30, **Height/B+** 16.75, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 14.55, **No./terminals** 3

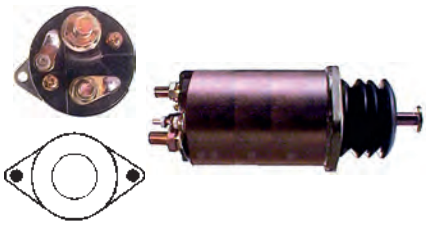


## 135676 Solenoid

**Replacing:** 0-47100-3290

**Servicing:** 0-23000-0020, 0-23000-1020, 0-23000-1300

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 52.00, **OD/cover** 45.00, **Total length** 161.15, **Height/B+** 18.00, **Width/kl. 50** 11.25, **Coil bolt** M8, **Coil bolt 2** 18.00, **No./terminals** 3



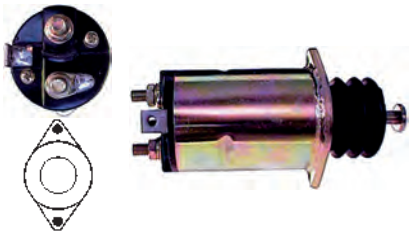
## 137811 Solenoid

**Replacing:** 0-47100-4390, 0-47100-4160, 0-47100-4100

**Servicing:** 28MT

12 **V**, **B+** M10, **Kl. 50** M4, **OD** 56.90, **OD/cover** 57.20, **Total length** 174.00, **Height/B+** 16.00, **Width/kl. 50** 8.00, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3

*Cap: HC-CARGO 137824.*



## 139510 Solenoid

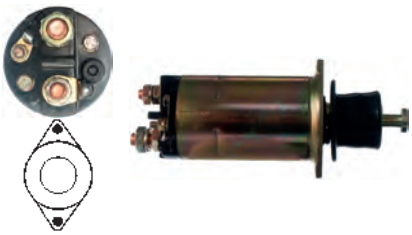
**Replacing:** 0-47100-2970

**Servicing:** 0-21000-4231, 0-21000-5230, 0-21000-5231

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 57.00, **OD/cover** 56.90, **Total length** 160.00, **Height/B+** 16.10, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 15.90, **No./terminals** 3

*Cap: HC-CARGO 139511. Moving contact: HC-CARGO 139512.*

### 24 V



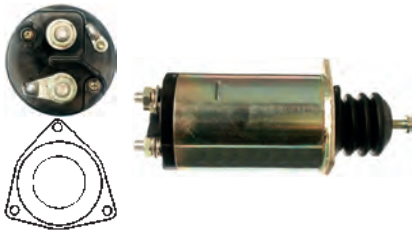
## 132498 Solenoid

**Replacing:** 0-47100-3110, 0-47100-3100

**Servicing:** 0-2100-3041, 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1070, 0-23000-1071, 0-23000-1080

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 56.80, **OD/cover** 56.65, **Total length** 177.50, **Height/B+** 22.00, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 17.45, **No./terminals** 3

*Cap: HC-CARGO 138898.*



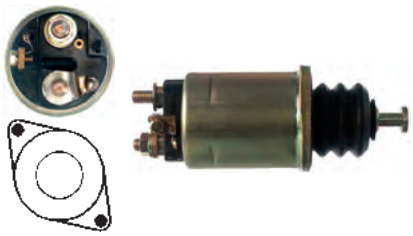
## 132499 Solenoid

**Replacing:** 0-47100-4141, 0-47100-4140, 0-47100-3420

**Servicing:** 0-23000-1620, 0-23000-1630, 0-23000-6210, 0-23000-6211, 0-23000-6232, 0-23000-6250, 0-23000-6251, 0-23000-6253

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 80.00, **OD/cover** 79.90, **Total length** 230.25, **Height/B+** 22.80, **Width/kl. 50** 13.55, **Coil bolt** M10, **Coil bolt 2** 23.90, **No./terminals** 3

*Cap: HC-CARGO 234516.*

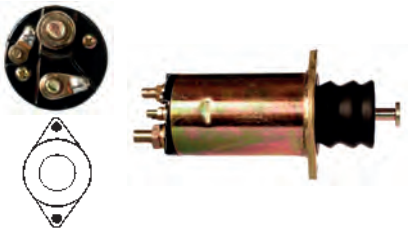


## 132500 Solenoid

**Replacing:** 0-47100-4360, 0-47100-3592, 0-47100-3591, 0-47100-3590

**Servicing:** 0-23000-0040, 0-23000-0060, 0-23000-0100, 0-23000-0150, 0-23000-0180, 0-23000-0200, 0-23000-0250, 0-23000-0272

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 54.15, **OD/cover** 46.75, **Total length** 154.35, **Height/B+** 18.20, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 18.40, **No./terminals** 3



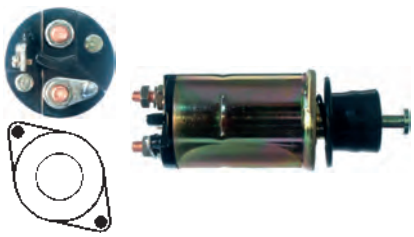
## 133395 Solenoid

**Replacing:** 0-47100-3510

**Servicing:** 0-23000-1160, 0-23000-1170, 0-23000-1230, 0-23000-1231, 0-23000-1240, 0-23000-1270, 0-23000-1290, 0-23000-1292

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 56.85, **OD/cover** 56.80, **Total length** 181.75, **Height/B+** 23.25, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 18.50, **No./terminals** 3

*Cap: HC-CARGO 233121.*



## 133482 Solenoid

**Replacing:** 0-47100-3180, 0-47100-3010

**Servicing:** 0-21000-4720, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5350, 0-21000-5360

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 56.75, **OD/cover** 56.80, **Total length** 162.00, **Height/B+** 17.45, **Width/kl. 50** 12.30, **Coil bolt** M8, **Coil bolt 2** 17.30, **No./terminals** 3

*Cap: HC-CARGO 139511. Moving contact: HC-CARGO 139512.*



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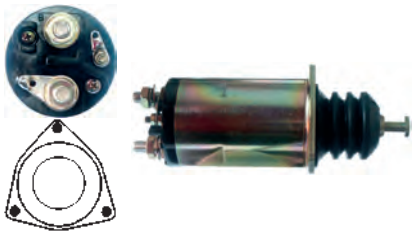
#Available while stock last, * Program development.



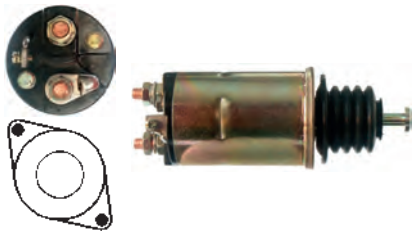
## 134630 Solenoid

**Replacing:** 0-47100-3060, 0-47100-3041, 0-47100-3040, 0-47100-2672, 0-47100-2671, 0-47100-2670

**Servicing:** 0-21000-3333, 0-21000-3390, 0-21000-3391, 0-21000-3411, 0-21000-3625, 0-21000-3651, 0-21000-3800, 0-21000-4452

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 69.70, **OD/cover** 69.35, **Total length** 214.70, **Height/B+** 27.75, **Width/kl. 50** 18.55, **Coil bolt** M10, **Coil bolt 2** 27.75, **No./terminals** 3

*Cap: HC-CARGO 138897.*



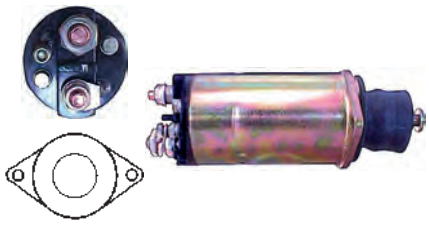
## 134631 Solenoid

**Replacing:** 0-47100-4062, 0-47100-4060

**Servicing:** 0-23000-0051, 0-23000-0281, 0-23000-0283, 0-23000-0330, 0-23000-0370

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 56.85, **OD/cover** 56.75, **Total length** 164.40, **Height/B+** 16.30, **Width/kl. 50** 11.60, **Coil bolt** M8, **Coil bolt 2** 16.30, **No./terminals** 3

*Cap: HC-CARGO 139511. Moving contact: HC-CARGO 139512.*



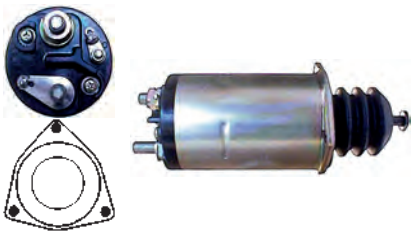
## 135521 Solenoid

**Replacing:** 0-47100-4220

**Servicing:** 28MT

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 57.00, **OD/cover** 56.70, **Total length** 177.50, **Height/B+** 14.00, **Width/kl. 50** 6.50, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 3

*Cap: HC-CARGO 138898. Terminal switch: M5.*



## 135674 Solenoid

**Replacing:** 0-47100-3944, 0-47100-3940

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230, 0-23000-3240

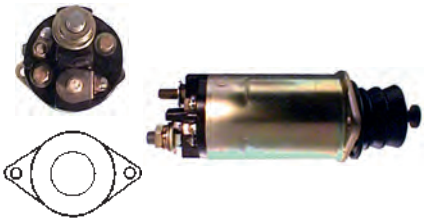
24 **V**, **B+** M10, **Kl. 50** M8, **OD** 70.00, **OD/cover** 69.75, **Total length** 204.00, **Height/B+** 18.75, **Width/kl. 50** 9.50, **Coil bolt** M10, **Coil bolt 2** 18.80, **No./terminals** 3

## 136400 Solenoid

**Replacing:** 0-47100-3660

24 **V**, **B+** M12, **Kl. 15a** M5, **Kl. 50** 9.40, **OD** 56.80, **OD/cover** 56.90, **Total length** 188.90, **Height/B+** 26.00, **Width/kl. 15a** 14.60, **Width/kl. 50** 11.20, **Coil bolt** M8, **Coil bolt 2** 9.40, **No./terminals** 4

*Insulated return.*



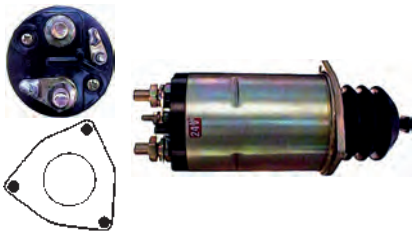
## 137544 5★ Solenoid

**Manufacturer:** Nikko

**Replacing:** 0-47100-4240

**Servicing:** 0-23000-2100, 0-23000-2101, 0-23000-2200, 0-23000-2201, 0-23000-2541

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 57.25, **OD/cover** 57.00, **Total length** 193.00, **Height/B+** 17.85, **Width/kl. 50** 9.60, **Coil bolt** M8, **Coil bolt 2** 14.70, **No./terminals** 3



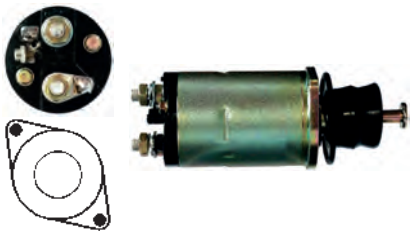
## 138896 Solenoid

**Replacing:** 0-47100-3070

**Servicing:** 0-23000-6000, 0-23000-6030, 0-23000-6040, 0-23000-6070, 0-23000-6071, 0-23000-6090, 0-23000-6091, 0-23000-6100

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 69.90, **OD/cover** 69.45, **Total length** 210.00, **Height/B+** 22.65, **Width/kl. 50** 18.15, **Coil bolt** M10, **Coil bolt 2** 20.00, **No./terminals** 3

*Cap: HC-CARGO 138897.*



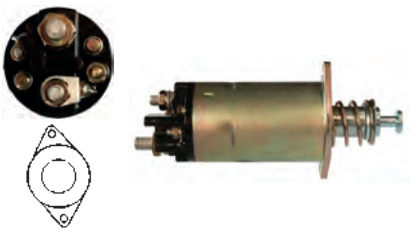
## 231735 Solenoid

**Replacing:** 7-47100-0130, 7-47100-0040

**Servicing:** 0-21000-3462, 0-21000-4040, 0-21000-4830, 0-21000-4900

24 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 56.85, **OD/cover** 57.00, **Total length** 160.55, **Height/B+** 16.35, **Width/kl. 50** 11.95, **Coil bolt** M8, **Coil bolt 2** 15.90, **No./terminals** 3

*Cap: HC-CARGO 139511.*



## 231819 Solenoid

**Replacing:** 0-47100-4420

**Servicing:** 28MT

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M5, **OD** 57.05, **OD/cover** 57.20, **Total length** 188.80, **Height/B+** 22.50, **Width/kl. 15a** 11.00, **Width/kl. 50** 9.50, **Coil bolt** M8, **Coil bolt 2** 13.50, **No./terminals** 4

*Relay terminal: M5. Cap: HC-CARGO 232203.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

**235814** Solenoid

**Replacing:** 0-0055-05402

**Servicing:** 0-33000-6181

24 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 53.00, **Total length** 114.00, **Height/B+** 15.80, **No./terminals** 3

**335045** Solenoid

**Replacing:** 0-47100-5130

**Servicing:** 0-24000-3251

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 53.50, **OD/cover** 100.50, **Total length** 140.00, **Coil bolt** M10, **No./terminals** 3

## Safety Switches

**230186** Safety Switch

**Replacing:** 0-25000-7930, 0-25000-7780

**Servicing:** 28MT

*24 V.*

### 24 V

**132493** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 7-25000-6090, 0-25000-8430, 0-25000-6090, 0-25000-6083, 0-25000-6082, 0-25000-6081, 0-25000-6080

**Servicing:** 0-21000-4850, 0-21000-4860, 0-21000-4870, 0-21000-4871, 0-21000-4880, 0-21000-5080, 0-23000-0060, 0-23000-0180

24 **V**, **Total length** 72.50

**132494** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 0-25000-8103, 0-25000-8102, 0-25000-8100, 0-25000-6852, 0-25000-6850

**Servicing:** 0-23000-6530, 0-23000-6531, 0-23000-6533, 0-23000-8300

24 **V**, **Total length** 77.35

**233686** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 0-25000-7812, 0-25000-7811, 0-25000-7810, 0-25000-6320

**Servicing:** 0-23000-1070, 0-23000-1071, 0-23000-1080, 0-23000-1260, 0-23000-1310, 0-23000-1700, 0-23000-2201, 0-23000-2341

24 **V**, **OD** 40.40, **Total length** 63.35

**233687** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 0-25000-7823, 0-25000-7822, 0-25000-7690

**Servicing:** 0-23000-2100, 0-23000-2541

24 **V**, **OD/cover** 40.45, **Total length** 81.80

**233688** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 0-25000-8900, 0-25000-6953, 0-25000-6951, 0-25000-6950

**Servicing:** 0-23000-1230, 0-23000-1231, 0-23000-1270, 0-23000-1290, 0-23000-1292, 0-23000-1330, 0-23000-6630

24 **V**, **Total length** 76.65

**234253** 5★ Safety Switch

**Manufacturer:** Nikko

**Replacing:** 0-25000-8341, 0-25000-8340, 0-25000-7342

**Servicing:** 0-23000-7022

24 **V**, **OD/cover** 40.55, **Total length** 78.00

## Solenoid Parts

### Solenoid Caps

**138897** Solenoid Cap

**Servicing:** 0-47100-2670, 0-47100-2690, 0-47100-3030, 0-47100-3040, 0-47100-3041, 0-47100-3060, 0-47100-3070

**OD** 69.50, **No./terminals** 3

*HC-CARGO 132495, 134630, 138896, 231734.*

**138898** Solenoid Cap

**Servicing:** 28MT, 0-23000-1260, 0-23000-1310, 0-23000-1700, 0-23000-2201, 0-47100-3110

**OD** 56.85, **No./terminals** 3

*HC-CARGO 132498.*

**139511** Solenoid Cap

**Servicing:** 0-21000-4231, 0-21000-5230, 0-47100-1380, 0-47100-2970, 0-47100-3010, 0-47100-3100, 0-47100-3180, 0-47100-3901

**OD** 56.90, **No./terminals** 3

*HC-CARGO 133482, 134631, 134632, 139510, 231735.*



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#Available while stock last, * Program development.

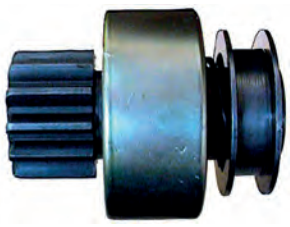
**234516** Solenoid Cap
**Servicing:** 0-23000-6510, 0-47100-3420
**OD** 79.70, **No./terminals** 3
*HC-CARGO 132499.*

## Moving Contacts

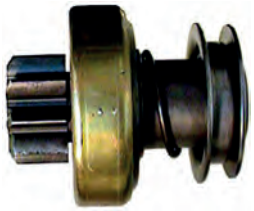
**139512** Contact Kit
**Thickness** 3.70, **Width** 31.00

## Drives

**132514** Drive
**Replacing:** 0-23500-0353, 0-23500-0350
**Servicing:** 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0100, 0-23000-0240, 0-23000-0330, 0-23000-0450
**ID** 13.00, **OD** 35.30, **OD/housing** 60.00, **Total length** 71.20, **Splines A** 12, **No./teeth** 9, **Rotation** CR



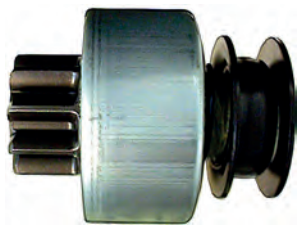
**132519** Drive
**Replacing:** 1-23500-0170
**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3180, 0-23000-3270, 0-23000-3280, 0-23000-3285, 0-23000-3291, 0-23000-3301
**ID** 19.32, **OD** 46.50, **OD/housing** 75.00, **Total length** 96.50, **Splines A** 15, **No./teeth** 12, **Rotation** CR



**133291** Drive
**Replacing:** 0-23500-0422, 0-23500-0421, 0-23500-0420
**Servicing:** 0-23000-0091, 0-23000-0130, 0-23000-0172, 0-23000-0173, 0-23000-0260, 0-23000-0262
**ID** 13.10, **OD** 32.50, **OD/housing** 59.30, **Total length** 71.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**133854** Drive
**Replacing:** 0-23500-0551
**Servicing:** 28MT
**ID** 14.00, **OD** 32.00, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR
*w/ rubber seal.*

**135542** Drive
**Replacing:** 1-23500-0010
**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1032, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1073
**ID** 15.00, **OD** 40.25, **OD/housing** 60.00, **Total length** 84.15, **Splines A** 12, **No./teeth** 11, **Rotation** CR



**136139** 5★ Drive
**Manufacturer:** Nikko
**Replacing:** 0-23500-0323, 0-23500-0320
**Servicing:** 0-23000-1260, 0-23000-1310, 0-23000-1680, 0-23000-1700, 0-23000-1720, 0-23000-2100, 0-23000-2200, 0-23000-2201
**ID** 14.00, **OD** 34.75, **OD/housing** 62.00, **Total length** 82.55, **Splines A** 12, **No./teeth** 9, **Rotation** CR

**137071** Drive
**Replacing:** 1-21500-2060, 0-21500-2001
**Servicing:** 0-21000-4720, 0-21000-4721, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5020, 0-21000-5021
**ID** 14.00, **OD** 35.75, **OD/housing** 60.00, **Total length** 80.20, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## Levers

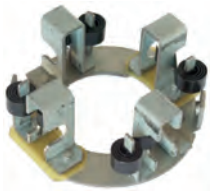
### Lever Parts

### Various

Pkg. 10

**233692**# Screw
**Servicing:** 28MT
**Thread** M6, **Total length** 55.80, **Thread length** 15.00

## Brush Gears



**132503** Brush Gear
**Replacing:** 0-23750-0051, 0-23750-0050
**Servicing:** 0-23000-6071, 0-23000-6072, 0-23000-6091, 0-23000-6103, 0-23000-6140, 0-23000-6160, 0-23000-6170, 0-23000-6181
**OD** 78.80
*Brush set: HC-CARGO 140551.*

**133863** Brush Gear
**Replacing:** 0-23750-0120
**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080
**OD** 77.00
*Brush set: HC-CARGO 140549.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 134973 5★ Brush Gear

**Manufacturer:** Nikko

**Replacing:** 0-23750-0220

**Servicing:** 0-23000-0081, 0-23000-0091, 0-23000-0120, 0-23000-0130, 0-23000-0172, 0-23000-0173, 0-23000-0210, 0-23000-0260

**OD** 62.00

*Neg. brushes. Brush set: HC-CARGO 140770. Brush spring: HC-CARGO 135694.*

## 135679 5★ Brush Gear

**Manufacturer:** Nikko

**Replacing:** 0-23750-0250

**Servicing:** 0-23000-3150, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230, 0-23000-3240, 0-23000-3270

**OD** 77.00

*Brush set: HC-CARGO 140769. Brush spring: HC-CARGO 135673.*

# Brush Gear Parts

## Brush Springs

Pkg. 10

## 135672# Brush Spring

**Replacing:** 1-23913-0010

**Servicing:** 0-21000-4720, 0-21000-4930, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5200, 0-21000-5350

**OD** 14.40, **Length** 24.60

Pkg. 10

## 135673 Brush Spring

**Replacing:** 1-23913-0040

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3200, 0-23000-3230, 0-23000-3240

**OD** 14.75, **Length** 28.50

## Brush Sets

Pkg. 5

## 140448 Brush Set

**Replacing:** 1-21740-0440

**Servicing:** 0-21000-3271, 0-21000-3480, 0-21000-3491, 0-21000-3520, 0-21000-3650, 0-21000-3651, 0-21000-3661, 0-21000-3690

24 **V**, **Length** 23.00, **Lead length** 60.50, **Height** 20.00, **Thickness** 9.00

## 140488 Brush Set

**Replacing:** 1-21740-0690, 1-21740-0680

**Servicing:** 0-21000-3333, 0-21000-3390, 0-21000-3391, 0-21000-3411, 0-21000-3625, 0-21000-3800, 0-21000-4452, 0-21000-4740

24 **V**, **Length** 23.50, **Lead length** 50.00, **Height** 20.00, **Thickness** 10.00

Pkg. 5

## 140507 Brush Set

**Replacing:** 1-23740-0150, 1-23740-0140

**Servicing:** 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0100, 0-23000-0150, 0-23000-0180, 0-23000-0200

24 **V**, **Length** 15.50, **Lead length** 36.00, **Height** 25.00, **Thickness** 7.00

## 140549 Brush Set

**Replacing:** 1-23740-0170, 1-23740-0120, 0-23740-0180, 0-23740-0110

**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080

24 **V**, **Length** 20.00, **Lead length** 40.00, **Lead length 2** 49.50, **Height** 25.00, **Thickness** 8.00

## 140550 Brush Set

**Replacing:** 1-23740-0030, 1-23740-0010

**Servicing:** 0-23000-3130, 0-23000-3140

24 **V**, **Length** 21.50, **Lead length** 44.00, **Height** 25.00, **Thickness** 8.00

## 140551 Brush Set

**Replacing:** 1-23740-0050, 0-23740-0250

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3240, 0-23000-3241, 0-23000-3260

24 **V**, **Length** 22.50, **Lead length** 52.80, **Height** 30.00, **Thickness** 9.00

## 140732 Brush Set

**Replacing:** 0-23740-0360

**Servicing:** 28MT

24 **V**, **Length** 20.00, **Lead length** 49.00, **Lead length 2** 37.00, **Height** 25.00, **Thickness** 8.00



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#Available while stock last, * Program development.

Pkg. 5

## 140770 Brush Set

**Replacing:** 0-23740-0210, 0-23740-0200

**Servicing:** 0-23000-0081, 0-23000-0091, 0-23000-0120, 0-23000-0130, 0-23000-0172, 0-23000-0173, 0-23000-0210, 0-23000-0260

12 **V**, **Length** 15.00, **Lead length** 41.00, **Lead length 2** 36.00, **Height** 25.00, **Thickness** 7.00

Pkg. 5

## 140875 Brush Set

**Replacing:** 1-21740-0720, 1-21740-0710

**Servicing:** 0-21000-4720, 0-21000-4721, 0-21000-4931, 0-21000-4932, 0-21000-4933, 0-21000-4934, 0-21000-5021, 0-21000-5350

24 **V**, **Length** 20.00, **Lead length** 60.50, **Height** 19.00, **Thickness** 9.00

Pkg. 5

## 141106 Brush Set

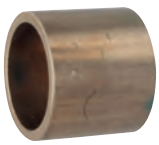
**Replacing:** 1-21470-0211

**Servicing:** 0-21000-2484

12 **V**, **Length** 18.00, **Lead length** 43.00, **Height** 18.50, **Thickness** 7.00

## Bushings

Pkg. 10



## 140449 Bushing

**Replacing:** 7-21351-0950

**Servicing:** 0-21000-3271, 0-21000-3333, 0-21000-3390, 0-21000-3391, 0-21000-3411, 0-21000-3480, 0-21000-3491, 0-21000-3520

**ID** 18.98, **OD** 23.01, **Length** 19.80

Pkg. 5

## 140450 Bushing

**Replacing:** 7-21351-0960

**Servicing:** 0-21000-3271, 0-21000-3480, 0-21000-3491, 0-21000-3520, 0-21000-3650, 0-21000-3651, 0-21000-3661, 0-21000-3690

**ID** 27.78, **OD** 32.00, **Length** 28.00

Pkg. 10

## 140485 Bushing

**Replacing:** 7-21351-0621, 7-21351-0620, 7-21351-0610

**Servicing:** 0-21000-2480, 0-21000-2484, 0-21000-2810, 0-21000-3462, 0-21000-3600, 0-21000-4040, 0-21000-4231, 0-21000-4700

**ID** 14.00, **OD** 17.00, **Length** 15.00

Pkg. 10

## 140487# Bushing

**Replacing:** 7-21351-1011, 7-21351-1010

**Servicing:** 0-21000-3462, 0-21000-3600, 0-21000-4040, 0-21000-4231, 0-21000-4720, 0-21000-4721, 0-21000-4830, 0-21000-4900

**ID** 14.05, **OD** 17.48, **Length** 19.00

Pkg. 10

## 140517 Bushing

**Replacing:** 7-23351-0140, 7-23351-0100, 7-23351-0040, 1-23351-0140

**Servicing:** 0-23000-1020, 0-23000-1031, 0-23000-1033, 0-23000-1040, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071

**ID** 15.03, **OD** 19.02, **Length** 19.90

Pkg. 10

## 140519 Bushing

**Replacing:** 7-23351-0160

**Servicing:** 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0081, 0-23000-0091, 0-23000-0100, 0-23000-0120

**ID** 13.03, **OD** 16.00, **Length** 16.00

Pkg. 10

## 140520 Bushing

**Replacing:** 7-23351-0080, 1-23351-0080

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3240, 0-23000-3241, 0-23000-3260

**ID** 19.00, **OD** 23.00, **Length** 19.00

Pkg. 5

## 140521 Bushing

**Replacing:** 7-23351-0060, 1-23351-0060

**Servicing:** 0-23000-6071, 0-23000-6072, 0-23000-6091, 0-23000-6103, 0-23000-6140, 0-23000-6150, 0-23000-6160, 0-23000-6170

**ID** 14.03, **OD** 17.50, **Length** 19.00

Pkg. 10

## 140601 Bushing

**Replacing:** 0-23351-0220

**Servicing:** 28MT

**ID** 14.03, **OD** 17.00, **Length** 16.20

Pkg. 10

**140906** Bushing

**Replacing:** 7-23351-0225, 7-23351-0220

**Servicing:** 0-23000-1570, 0-23000-1580, 0-23000-1980, 0-23000-2100, 0-23000-2101, 0-23000-2200, 0-23000-2201, 0-23000-2541

**ID** 14.00, **OD** 17.00, **Length** 16.00

---

**140949** Bushing

**Replacing:** 7-23351-0154, 7-23351-0150

**Servicing:** 0-23000-0031, 0-23000-0032, 0-23000-0040, 0-23000-0060, 0-23000-0081, 0-23000-0091, 0-23000-0100, 0-23000-0120

**ID** 22.00, **OD** 26.00, **Length** 11.95

---

## Sundry Parts

### Thru Bolts

Pkg. 10

**233691** Through Bolt

**Total length** 185.40,
**Length/rear collar** 180.00,
**Thread length** 34.25, **Thread size** M6

---

### Various

**132526** Sealing Kit

**Replacing:** 7-09210-1000

**Servicing:** 0-21000-3391, 0-23000-6250, 0-23000-6251, 0-23000-6253, 0-23000-6310, 0-23000-6341, 0-23000-6343, 0-23000-6510

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Pkg. 5

**135696** Stop Collar

**Replacing:** 1-23181-0030

**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080

**ID** 15.00, **OD** 25.00, **Height** 7.55

*Retaining ring: HC-CARGO 135699 (x2).*

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Pkg. 5

**135698** Retaining Ring

**Replacing:** 1-23914-0020

**Servicing:** 0-23000-3150, 0-23000-3152, 0-23000-3160, 0-23000-3170, 0-23000-3180, 0-23000-3240, 0-23000-3241, 0-23000-3260

**Thickness** 2.00, **Material** Steel

*Stop collar: HC-CARGO 135695.*

---

Pkg. 5

**135699** Retaining Ring

**Replacing:** 1-23914-0030

**Servicing:** 0-23000-1030, 0-23000-1031, 0-23000-1033, 0-23000-1050, 0-23000-1060, 0-23000-1070, 0-23000-1071, 0-23000-1080

**Thickness** 2.00, **Material** Steel

*Stop collar: HC-CARGO 135696.*

---

Pkg. 10

**233694** Washer

**Servicing:** 28MT

**ID** 10.45, **OD** 23.60, **Thickness** 0.20, **Material** Steel

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Pkg. 10

**233695** Washer

**Servicing:** 28MT

**ID** 10.50, **OD** 23.00, **Thickness** 0.80

---



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## Solenoids

### Solenoid Assy's

#### 12 V

**235473** Solenoid Assy
**Servicing:** 03111-4140
12 **V**, **B+** M8, **OD** 81.80, **Total length** 123.00

**236596** Solenoid Assy
**Servicing:** 03101-3170
12 **V**, **No./terminals** 3

**238930** Solenoid Assy
**Servicing:** 03101-3190
12 **V**, **B+** M8, **Total length** 123.50, **Coil bolt** M8, **No./terminals** 3

### Solenoid Parts

#### Various

**334127** Plunger
**OD** 37.00, **Length** 95.60

## Drives

**235095** Drive
**Servicing:** 03111-4140, 03111-4240, 03111-4241
**ID** 9.00, **OD** 32.00, **OD/housing** 42.00, **Total length** 104.00, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**236607** Drive
**Servicing:** 03101-3170, 03101-3190, 03101-3220
**OD** 29.00, **Total length** 93.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**238986** Drive
**Servicing:** 03101-3050
**OD** 29.20, **Total length** 104.00, **Splines A** 10, **No./teeth** 9

### Drive Parts

#### Rollers

Pkg. 100

**135361** Dp Rollers
**OD** 7.20, **Length** 15.20

Pkg. 500

**234378** Rollers
**OD** 7.00, **Length** 18.45

## Brush Sets

**142077** Brush Set
**Servicing:** 03111-4240, 03111-4241
12 **V**, **Length** 18.05, **Lead length** 38.00, **Lead length 2** 38.00, **Height** 24.85, **Thickness** 7.80

## Sundry Parts

### Various

**234349** Stop Collar Kit
**ID** 13.00, **OD** 19.40, **Height** 5.40

Pkg. 10

**235284** Tolerance Ring
**Servicing:** 03101-3170, 03101-3190, 03101-3220, 03111-4140
**ID** 30.00, **OD** 32.00, **Height** 8.00



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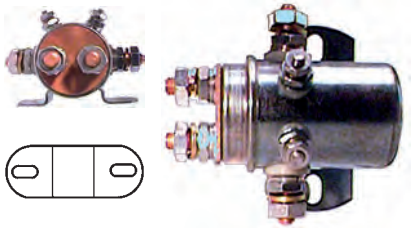
## Solenoids

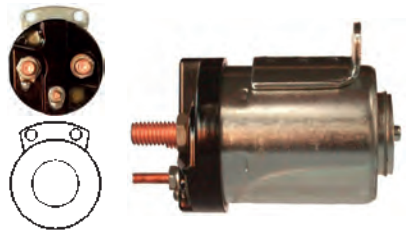
### 12 V



**138068** Solenoid

**Replacing:** SBD-4201G, SBD-4201A, SBD-4201, 15-386, 15-323

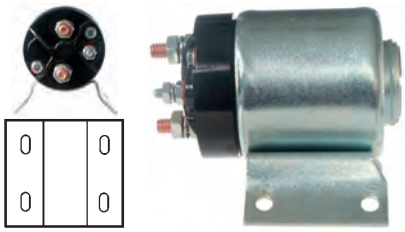
12 **V**, 200 **Amp**, **Intermittent load** 900 Amp., **B+** 5/16" UNF, **Kl. 50** 10-32 UNF, **OD** 42.00, **Total length** 89.35, **Height/B+** 12.00, **Width/kl. 50** 8.00, **Coil bolt** 5/16" UNF, **Coil bolt 2** 12.00, **Seconds** 5, **No./terminals** 6
*Silver contact.*



**231811** Solenoid

**Replacing:** SAJ4003B, SAJ4003A, 15-453, 15-452

12 **V**, **B+** M10, **Kl. 50** M5, **ID/cover** 27.90, **OD** 55.80, **OD/cover** 62.60, **Total length** 108.60, **Height/B+** 22.60, **Width/kl. 50** 19.40, **Coil bolt** M10, **Coil bolt 2** 16.85, **No./terminals** 3



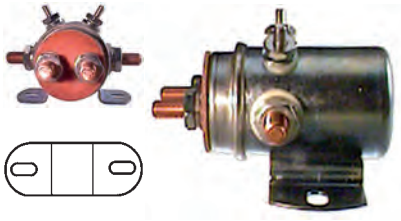
**232905** Solenoid

**Replacing:** SAG-4001, SAF-4001, SAD-4503, SAD-4502, SAD-4501, SAD-4403, SAD-4401, SAD-4301, SAD-4201, SAD-4101

**Servicing:** 8AL2002, MA12NDM451

12 **V**, **B+** M8, **Kl. 50** M4, **ID/cover** 31.95, **OD** 66.40, **OD/cover** 65.90, **Total length** 110.65, **Height/B+** 21.00, **Width/kl. 50** 12.80, **Coil bolt** M8, **Coil bolt 2** 19.75, **No./terminals** 3

### 24 V



**137766** 5★ Solenoid

**Manufacturer:** Prestolite

**Replacing:** SBD-4401, 15-326

24 **V**, 100 **Amp**, **Intermittent load** 600 Amp., **B+** 5/16" UNF, **Kl. 15a** 3/16"UNF, **Kl. 50** 3/16"UNF, **OD** 41.00, **Total length** 89.40, **Height/B+** 18.35, **Width/kl. 15a** 12.00, **Width/kl. 50** 12.40, **Coil bolt** 5/16" UNF, **Coil bolt 2** 17.65, **Seconds** 5, **No./terminals** 6

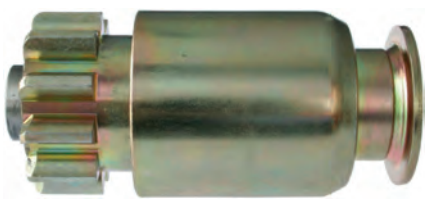
## Drives

**131766** Drive

**Replacing:** PD-7A, 59-186

**Servicing:** 40MT

**ID** 19.00 (3/4"), **OD** 46.30, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 12, **Rotation** CR
*Bronze.*



**131768** Drive

**Replacing:** PP-8A, PD-9A, PD-8A, 59-205, 59-203

**Servicing:** 40MT

**ID** 19.00 (3/4"), **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 11, **Rotation** CR

**233175** Drive

**Replacing:** 18-56

**ID** 14.30, **OD** 32.10, **OD/housing** 60.00, **Total length** 106.00, **Splines A** 6, **No./teeth** 10, **Rotation** CR

**235624** Drive

**Replacing:** EBB-174, EBB-132, EB-95, 59-248, 59-195, 59-146, 19-195

**Servicing:** 460227, MDU7028, MDU7028S, MDU7029, MEO4001, MEO4002, MMG4002

**ID** 16.00, **OD** 29.20, **OD/housing** 53.00, **Total length** 137.00, **No./teeth** 9, **Rotation** ACR

## Brush Gears

**230987** Brush Gear

**Replacing:** MDL-1064, 36-67

12 **V**, **OD** 82.85
*Brush set: HC-CARGO EX85-86 2/1.*

## Brush Gear Parts

### Brush Springs

Pkg. 10

**132741** Brush Spring

**Replacing:** MZ-19S, 50-263

**Servicing:** 4½" DD

**OD** 15.65, **Length** 30.80



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## Brush Sets

**140712** Brush Set
**Replacing:** MGD-2032S, 17-103
**Servicing:** Mercedes-Benz
12 **V**, **Length** 12.50, **Lead length** 50.00, **Lead length 2** 52.00, **Height** 16.00, **Thickness** 6.50

**140713** Brush Set
**Replacing:** MGL-2032S, 17-171
12 **V**, **Length** 12.50, **Lead length** 53.00, **Lead length 2** 63.50, **Height** 16.00, **Thickness** 6.50

**141213** Brush Set
**Replacing:** EVF-2012S, 42-50, 42-32
12 **V**, **Length** 12.50, **Lead length** 33.50, **Height** 6.30, **Thickness** 6.30

**EX85-862/1** Brush Set
**Replacing:** MDL2012CS, MDL-2012CS, MDL-1063S, 17-39
12 **V**, **Length** 10.00, **Lead length** 46.55, **Height** 17.50, **Thickness** 8.50

## Bushings

Pkg. 10

**140053** Bushing
**Replacing:** MG-77A, 24-23
**Servicing:** 37MT
**ID** 15.99, **OD** 19.15, **Length** 18.90
**Alternative no.:** B140053

Pkg. 10

**140264** Bushing
**Replacing:** MZ-40AS, 24-3, 24-29
**ID** 16.27, **OD** 19.15, **Length** 15.00
**Alternative no.:** B140264

Pkg. 5

**140553** Bushing
**ID** 15.90, **OD** 19.10, **Length** 15.20

Pkg. 10

**141157** Bushing
**Replacing:** MP-41A, 24-28
**ID** 12.78, **OD** 15.95, **Length** 19.00

Pkg. 10

**141158** Bushing
**Replacing:** GBF-79
**ID** 15.90, **OD** 19.10, **Length** 24.40

Pkg. 100

**B140053** Bushing
**Replacing:** MG-77A, 24-23
**ID** 15.99, **OD** 19.15, **Length** 18.90
**Alternative no.:** 140053

Pkg. 100

**B140264** Bushing
**Replacing:** MZ-40AS, 24-3, 24-29
**ID** 16.26, **OD** 19.15, **Length** 14.90
**Alternative no.:** 140264



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## Armatures

### 12 V

**130551** Armature

**Replacing:** 1961320, 1952530, 1945906, 1852530

**Servicing:** 40MT, 10461041, 10461045, 10461046, 10461048, 10461059, 10461060, 10461061, 1114047, 1114051, 1114052, 1114054, 1114055

12 **V**, **Shaft length** 467.00, **Core thickness** 85.00, **No./splines** 19

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**130552** Armature

**Replacing:** 1967045, 1948999, 1946391

**Servicing:** 35MT, 1113389, 1113392, 1113402, 1113411, 1113412, 1113548, 1113626, 1113633, 1113634, 1113635, 1113636, 1113637

12 **V**, **Shaft length** 394.00, **Core thickness** 85.00, **No./splines** 3, **Rotation** CR
*Short shaft.*

---

**131122** Armature

**Replacing:** 3471555

**Servicing:** 150, 163, 168, 172, 177, 3471150, 3471159, 3471163, 3471168, 3471171, 3471172, 3471177, 3471390, 3471393

12 **V**, 0.7 **kW**, **Shaft length** 223.50, **Core thickness** 58.00, **No./splines** 12
*Spacer: HC-CARGO 136846.*

---

**131137** Armature

**Replacing:** D4123, 1967042, 1948691, 1942244, 1935259, 1932872

**Servicing:** 30MT, 1113002, 1113003, 1113004, 1113005, 1113041, 1113059, 1113089, 1113100, 1113101, 1113111, 1113113, 1113114

12/24 **V**, **Shaft length** 355.60, **Core thickness** 85.00, **No./splines** 6

---

**131168** Armature

**Replacing:** 1876429, 1851961

**Servicing:** 35MT, 1113391, 1113396, 1113397, 1113399, 1113400, 1113401, 1113404, 1113405, 1113413, 1113414, 1113416, 1113417

12 **V**, **Shaft length** 402.30, **Core thickness** 85.00, **No./splines** 3
*Long shaft.*

---

**131174** Armature

**Replacing:** D4109, 1958949, 1954448, 1938178

**Servicing:** 10MT, 10455304, 10455355, 1107215, 1107224, 1107245, 1107251, 1107291, 1107300, 1107326, 1107344, 1107364, 1107378

12 **V**, **Shaft length** 299.70, **Core thickness** 69.00, **No./splines** 6

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**131354** Armature

**Replacing:** 1987175, 1985249

**Servicing:** 37TM, 10461169, 10478805, 10478806, 10478825, 10478890, 10478921, 10478927, 10478928, 10478929, 10478930, 10478949

12 **V**, **Shaft length** 392.10, **Core thickness** 85.00, **No./splines** 3, **Rotation** CR

---

**131365** Armature

**Replacing:** 1987989, 1887989

**Servicing:** 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

12 **V**, **Shaft length** 451.00, **Core thickness** 86.00, **No./splines** 19

---

**131400** Armature

**Replacing:** D4159, D4143, D4124, D4121, D4111, 1979792, 1978517, 1970548, 1970538, 1965724, 1940624, 1940548

**Servicing:** 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455315, 10455335

12 **V**, **Shaft length** 281.00, **Core thickness** 74.00, **No./splines** 3, **Rotation** CR
*High torque.*

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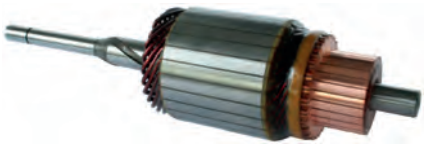

## 131401 Armature

**Replacing:** D4125, D4122, D4119, 830842, 830540, 1992258, 1978449, 1971568, 1971563, 1966288, 1966228, 1966224

**Servicing:** 8MT, 1107233, 1107237, 1107242, 1107247, 1107248, 1107259, 1107260, 1107266, 1107274, 1107293, 1107298, 1107301

12 **V**, **Shaft length** 282.00, **Core thickness** 69.00, **No./splines** 3, **Rotation** CR

## 131403 Armature

**Replacing:** D4128, 1974786, 1893449, 1875835

**Servicing:** 25MT, 1109186, 1109212, 1109213, 1109214, 1109215, 1109216, 1109218, 1109219, 1109495, 1109563, 1113589, 1113590

12 **V**, **Shaft length** 327.00, **Core thickness** 74.00, **No./splines** 3, **Rotation** CR

## 131627 Armature

**Replacing:** 1960866, 1876366, 1846614

**Servicing:** 20MT, 1107556, 1107573, 1107574, 1107577, 1107587, 1107588, 1107589, 1107598, 1107599, 1107863, 1107866, 1107867

12 **V**, **Shaft length** 335.00, **Core thickness** 74.00, **No./splines** 6, **Rotation** CR

## 131658 Armature

**Replacing:** 1956918, 1950417, 1949190, 1930812, 1891916

**Servicing:** 20MT, 25MT, 10455500, 1107506, 1107510, 1107511, 1107512, 1107514, 1107515, 1107516, 1107522, 1107523, 1107527, 1107534

12/24 **V**, **Shaft length** 335.00, **Core thickness** 74.00, **No./splines** 6

## 131659 Armature

**Replacing:** 1950307

**Servicing:** 10MT, 1107203, 1107204, 1107205, 1107234, 1107249, 1107268, 1107290, 1107292, 1107295, 1107308, 1107332, 1107335

12 **V**, **Shaft length** 301.00, **Core thickness** 69.00, **No./splines** 6

## 132685 Armature

**Replacing:** D4148, D4140, D4136, D4135, 1985138, 10499097, 10497046, 10495931, 10467708, 10467325, 10456406

**Servicing:** 5MT, 10455004, 10455007, 10455010, 10455011, 10455016, 10455017, 10455018, 10455019, 10455020, 10455023, 10455025

12 **V**, **Shaft length** 254.00, **Core thickness** 62.00, **No./splines** 3, **Rotation** CR

## 132686 Armature

**Replacing:** 1956422, 1947353

**Servicing:** 10MT, 1107228, 1107229, 1107275, 1107341, 1107386, 1107390, 1107744, 1107782, 1108291, 1108299, 1108321, 1108334

12 **V**, **Shaft length** 300.60, **Core thickness** 68.70, **No./splines** 6, **Rotation** ACR

## 132729 Armature

**Replacing:** 1878400, 10499230, 10495881, 10471537, 10467582, 10456405

**Servicing:** 5MT, SD210, SD260, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045

12 **V**, **Shaft length** 256.58, **Core thickness** 62.28, **No./splines** 3, **Rotation** CR

## 133147 Armature

**Replacing:** 3471797, 3471767, 3471634

**Servicing:** 153, 155, 164, 169, 173, 174, 3471153, 3471155, 3471164, 3471169, 3471170, 3471173, 3471174, 3471175, 3471377, 3471850

12 **V**, 0.8/0.9/1/1.4 **kW**, **Shaft length** 227.60, **Core thickness** 58.00, **No./splines** 12, **Rotation** CR



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## 133850 Armature

**Replacing:** D4161, 10456466

**Servicing:** 28MT, 10465054, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479619, 10479620, 10479621

12 **V**, **Shaft length** 177.70, **No./teeth** 8, **Core thickness** 60.10, **Rotation** CR/ACR

## 135786 Armature

**Replacing:** 1975073, 1929404, 1891404, 1851550

**Servicing:** 10MT, 10455316, 10455317, 10455318, 10455321, 10455322, 10455324, 10455325, 10455326, 10455327, 10455328, 10455329

12 **V**, **Shaft length** 300.50, **No./splines** 6, **Core thickness** 74.30, **Rotation** CR

## 135939 Armature

**Replacing:** 801662

**Servicing:** 10MT, 1108440, 1108511, 1109430, 1109595, 1998305, 1998324

12 **V**, **Shaft length** 300.60, **Core thickness** 68.50, **No./splines** 6, **Rotation** CR

## 137485 Armature

**Replacing:** 1949243

**Servicing:** 10MT, 1107194, 1107771, 1107877, 1109398, 1109422, 1109429, 1109434, 1109498, 1109552, 1109569, 1109570, 1109572

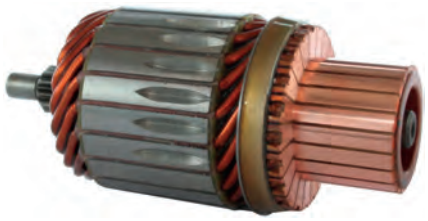
12 **V**, **Shaft length** 300.70, **Core thickness** 74.40, **No./splines** 6, **Rotation** CR

## 230388 Armature

**Replacing:** 10487126, 10475990, 10475100, 10451976

**Servicing:** PG150, PG260F1, 09000794, 09000801, 10455506, 9000795, 9000817, 9000824, 96208785

12 **V**, 1.4 **kW**, **Shaft length** 128.00, **Core thickness** 54.00, **No./teeth** 16, **Rotation** CR



## 230604 Armature

**Replacing:** 10475588

**Servicing:** PG260M, 8000129, 8000193, 8000321, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

12 **V**, **Shaft length** 121.00, **No./teeth** 12, **Core thickness** 53.00, **Rotation** CR

## 231471 Armature

**Replacing:** 10492437

**Servicing:** 12560972, 22506694, 9000836, 9000837, 9000841, 9000842, 9000854, 9000857, 9000858

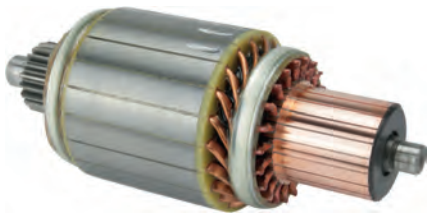
12 **V**, 1.7/2 **kW**, **Shaft length** 143.55, **Core thickness** 54.00, **No./teeth** 11, **Rotation** CR/ACR

## 232890 Armature

**Replacing:** 10473852

**Servicing:** 41MT, 10478812, 10478818, 10478897, 10478926, 10478999, 10479023, 10479060, 10479061, 10479071, 10479215

12 **V**, **Shaft length** 390.90, **Core thickness** 84.60, **No./teeth** 20



## 233960 Armature

**Replacing:** 10511758

**Servicing:** 39MT, 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521

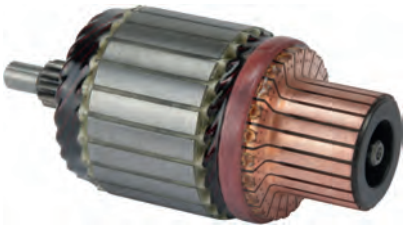
12 **V**, 6.2 **kW**, **Shaft length** 197.20, **Core thickness** 76.20, **No./teeth** 20

*Gear reduction.*

## 238624 Armature

**Servicing:** 12564089, 8000180, 9000856, 9000902, 9000934, 9000967, 96550792

12 **V**, **Shaft length** 109.20, **No./teeth** 10, **Core thickness** 45.45, **Rotation** CR



## 330661 Armature

**Servicing:** 8000048, 8000387

12 **V**, 1.1 **kW**, **Shaft length** 99.15, **Core thickness** 45.48, **No./teeth** 10, **Rotation** CR

### 24 V

## 130553 Armature

**Replacing:** 1951254

**Servicing:** 50MT, 10478846, 10478853, 10478862, 1109294, 1109299, 1109494, 1109497, 1109632, 1109633, 1109635, 1109641, 1109644

24 **V**, **Shaft length** 532.00, **Core thickness** 97.00, **No./splines** 19

*Long shaft.*



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#Available while stock last, * Program development.

## 130554 Armature

**Replacing:** 1953233, 1945840

**Servicing:** 50MT, 10478800, 10478843, 10478844, 10478845, 10478848, 10478849, 10478850, 10478851, 10478852, 10478854, 10478855

24 **V**, **Shaft length** 482.60, **Core thickness** 96.00, **No./splines** 19, **Rotation** CR

*Short shaft.*

## 130923 Armature

**Replacing:** 1948508, 1948506, 1945500

**Servicing:** 40MT, 10461047, 1113818, 1113824, 1113825, 1113827, 1113830, 1113831, 1113832, 1113840, 1113842, 1113845, 1113846

24 **V**, **Shaft length** 466.50, **Core thickness** 85.00, **No./splines** 19

## 131350 Armature

**Replacing:** 1988435

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478836, 10478839, 10478892

24 **V**, **Shaft length** 451.00, **Core thickness** 84.00, **No./splines** 19, **Rotation** CR

## 131359 Armature

**Replacing:** 1988322

**Servicing:** 37TM, 10478811, 10478814, 10478819, 10478826, 10478960, 10478976, 10479020, 1990330, 1990331, 1990332, 1990499, 1993701

24 **V**, **Shaft length** 392.10, **Core thickness** 85.00, **No./splines** 3, **Rotation** CR

## 131661# Armature

**Replacing:** 1967295, 1967044, 1949112, 1948600, 1948464

**Servicing:** 35MT, 1113172, 1113353, 1113366, 1113370, 1113371, 1113372, 1113375, 1113378, 1113379, 1113384, 1113385, 1113386

24 **V**, **Shaft length** 431.30, **Core thickness** 85.00, **No./splines** 19

## 135089 Armature

**Replacing:** 10457622, 10457117

**Servicing:** 28MT, 10461470, 10479600, 10479604, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479626, 10479627

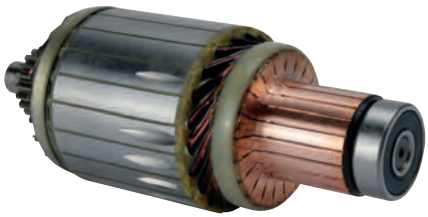
24 **V**, **Shaft length** 177.50, **Core thickness** 60.10, **No./teeth** 8, **Rotation** CR/ACR

## 232891 Armature

**Replacing:** 10472559

**Servicing:** 41MT, 10478815, 10478817, 10478898, 10478925, 10478961, 10479013, 10479024, 1993995

24 **V**, **Shaft length** 391.45, **Core thickness** 84.60, **No./teeth** 19



## 333058 Armature

**Replacing:** 10511750

**Servicing:** 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 8200009, 8200022, 8200039, 8200086

24 **V**, **Shaft length** 197.20, **Core thickness** 76.20, **No./teeth** 20

## Armature Parts

### Various

Pkg. 5

## 136846# Spacer

**Servicing: 150, 163,** 168, 172, 177, 3471150, 3471163, 3471168, 3471171, 3471172, 3471177, 3471390, 3471393, 3471555

**ID** 17.20**, OD** 20.90**, Height** 1**4.90**



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## Yokes w/ magnets

### 12 V

**231328** Yoke

**Replacing:** 10475597

**Servicing:** PG260, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000819, 9000820, 9000821, 9000822, 9000834, 9000835

**OD/middle** 73.55, **Length** 50.00/1.969", **Brush gear** w/o, **Magnets** w/

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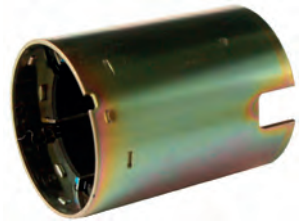

**232844**# Yoke

**Replacing:** 10476433, 10475996

**Servicing:** PG260F1, 09000794, 09000801, 9000795, 9000817, 9000824

12 **V**, **OD/middle** 73.00, **Length** 97.00/3.819", **Brush gear** w/o, **Magnets** w/

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## Field Cases

**232402** Field Case

**Replacing:** 10456473

**Servicing:** 28MT, 10479604, 10479606, 10479607, 10479613, 10479615, 10479617, 10479618, 10479619, 10479620, 10479628, 1113269

12 **V**, **OD/middle** 90.30, **Length** 140.90, **Brush gear** w/o

*Field coil only: HC-CARGO 134836.*

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**232403** Field Case

**Replacing:** 10457118

**Servicing:** 28MT, 10479600, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 1113272, 1113277, 1113291

24 **V**, **OD/middle** 90.60, **Length** 105.35, **Brush gear** w/o

*Field coil only: HC-CARGO 135610.*

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**237832** Yoke

**Servicing:** 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 19024196, 8200009, 8200022

24 **V**, 6.2 **kW**, **OD/middle** 105.30, **Length** 108.20, **Rotation** CR

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## Field Coils

### 12 V

**131366** Field Coil

**Replacing:** 1988111

**Servicing:** 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

12 **V**, **Internal height** 110.45, **Inner width** 33.90

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**132392** Field Coil

**Replacing:** 1960853

**Servicing:** 20MT, 25MT, 1107556, 1107573, 1107574, 1107577, 1107587, 1107588, 1107598, 1107599, 1107863, 1107866, 1107867, 1107868

12 **V**, **Height** 137.35, **Width** 249.15, **Internal height** 99.80, **Inner width** 31.70

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**132691** Field Coil

**Replacing:** D4264, D4227, D4223, 1977306, 1976129, 1965730, 1965048, 1877306, 10496643, 10470770

**Servicing:** 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

12 **V**, **Height** 104.70, **Width** 252.45, **Internal height** 65.20, **Inner width** 31.65

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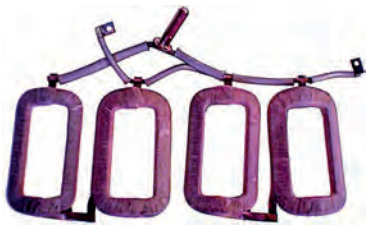

**132693**# Field Coil

**Replacing:** D4218, 1945350

**Servicing:** 30MT, 1113059, 1113089, 1113100, 1113111, 1113112, 1113114, 1113119, 1113121, 1113126, 1113136, 1113138, 1113139

12 **V**, **Height** 124.55, **Width** 295.25, **Internal height** 77.45, **Inner width** 36.40

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**135245**# Field Coil

**Servicing:** 150, 163, 168, 172, 3471150, 3471163, 3471168, 3471171, 3471172, 3471390, 3471393

12 **V**, 0.7 **kW**, **Height** 80.25, **Width** 188.20, **Internal height** 48.85, **Inner width** 22.75

*Small pole shoe.*

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#Available while stock last, * Program development.

## 135338 Field Coil

**Replacing:** 1988951, 1986819, 1986457, 1978123, 1956384, 1956348, 1955951, 1891918

**Servicing:** 20MT, 27MT, 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107514, 1107516, 1107517, 1107518, 1107519, 1107520

12 **V**, **Height** 130.40, **Width** 243.90, **Internal height** 100.90, **Inner width** 31.85

## 230428# Field Coil

**Replacing:** 1893754, 1893277, 10499208

**Servicing:** 5MT, 10455004, 10455006, 10455007, 10455016, 10455017, 10455018, 10455019, 10455023, 10455024, 10455055, 10465018

12 **V**, **Height** 88.50, **Internal height** 62.60, **Inner width** 25.55

## 232874 Field Coil

**Replacing:** 1988863

**Servicing:** 42MT, 10478968, 10478971, 10478978, 10479007, 1990365, 1990380, 1990395, 1990430, 1990439, 1990442, 1990486, 1990494

12 **V**, **Height** 152.00, **Width** 306.70, **Internal height** 110.80, **Inner width** 34.50, **Rotation** ACR

## 235740 Field Coil

**Servicing:** 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521, 19011525

12 **V**, **Height** 108.50, **Internal height** 66.05, **Inner width** 27.50

## 24 V

## 130495 Field Coil

**Replacing:** 1974929, 1974778, 1971839, 1949109, 1945496, 1945109, 1846926

**Servicing:** 40MT, 10461045, 10461046, 10461047, 10461059, 10461060, 1109621, 1113172, 1113386, 1113389, 1113392, 1113396, 1113397

12/24 **V**, **Height** 139.70, **Width** 261.55, **Internal height** 110.85, **Inner width** 33.55

## 130496 Field Coil

**Replacing:** 1945853

**Servicing:** 50MT, 10478800, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478852, 10478853, 10478855

24 **V**, **Height** 174.65, **Width** 311.10, **Internal height** 130.60, **Inner width** 26.65

## 131351 Field Coil

**Replacing:** 1988442

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478893, 10478937, 10478938

24 **V**, **Height** 144.60, **Width** 280.80, **Internal height** 110.75, **Inner width** 33.55

## 131360 Field Coil

**Replacing:** 1988328

**Servicing:** 37MT, 10478864, 1990330, 1990331, 1990332, 1990499, 1993701, 1993702, 1993707, 1993711, 1993723, 1993729, 1993732

24 **V**, **Height** 141.50, **Internal height** 88.10, **Inner width** 34.10

## 135610 Field Coil

**Servicing:** 28MT, 10461470, 10479613, 10479623, 10479626, 10479627, 1113277, 19024204, DRX67095, DRX67131, DRX67149

24 **V**, **Height** 97.85, **Internal height** 55.80, **Inner width** 20.90

## 232872 Field Coil

**Replacing:** D4257, 10469230

**Servicing:** 37MT, 10478811, 10478814, 10478819, 10478826, 10478960, 10478976, 10479020, 1993901, 1993902, 1993903, 1993905, 1993909

24 **V**, **Height** 143.35, **Internal height** 91.90, **Inner width** 33.75

## 232873 Field Coil

**Replacing:** 1988797

**Servicing:** 42MT, 10478836, 10478839, 10478892, 10478979, 10478981, 10479012, 1990381, 1990389, 1990436, 1990447, 1993784, 1993826

24 **V**, **Height** 147.00, **Width** 282.00, **Internal height** 110.15, **Inner width** 32.80, **Rotation** ACR

## 232877 Field Coil

**Replacing:** 10472563

**Servicing:** 37MT, 41MT, 10478815, 10478817, 10478898, 10478925, 10478953, 10478961, 10479013, 10479024, 1993995

24 **V**, **Height** 143.35, **Width** 292.90, **Internal height** 89.60, **Inner width** 33.55



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#Available while stock last, * Program development.



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## C.E. Brackets

**133019** C.E. Bracket

**Replacing:** D4307, 1977031, 1974157, 1941109, 1928966

**Servicing:** 10MT, 25MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

*w/o Bushing. Bushing: HC-CARGO 140181.*

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**138699** C.E. Bracket

**Replacing:** D4303, 1951603, 1940385

**Servicing:** 20MT, 25MT, 1107185, 1107213, 1107218, 1107249, 1107253, 1107279, 1107297, 1107315, 1107336, 1107359, 1107369, 1107383

*w/ bushing.*

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**230409#** C.E. Bracket

**Replacing:** D4313, 10496330, 10467598

**Servicing:** 5MT, SD210, SD260, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045

*w/ needle bearing.*

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**230544** C.E. Bracket

**Replacing:** 1988126, 10496573, 10495156

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478809

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**230780** C.E. Bracket

**Replacing:** 10457036

**Servicing:** 28MT, 10461470, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615

**ID** 84.00

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**230781#** C.E. Bracket

**Replacing:** 10456467

**Servicing:** 28MT, 10465054, 10479611, 1113267, 1113269, 1113270, 1113295, 1113296

*w/ stud 1/4"-20.*

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**232524** C.E. Bracket

**Replacing:** 10477932, 10476865, 10475581

**Servicing:** PG260M, 8000193, 9000786, 9000798, 9000819, 9000820, 9000821, 9000822, 9000834, 9000850, 9000851, 9000853, 9000860

**ID** 71.00

*Drain tube: HC-CARGO 138224.*

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**232530** C.E. Bracket

**Replacing:** D3339, 10468709

**Servicing:** 37MT, 41MT, 10478805, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478925, 10478926

**ID** 128.50

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## D.E. Brackets

**130511** D.E. Bracket

**Replacing:** 1970455, 1970454, 1969323, 1967454, 1961666, 1957847, 1957846, 1951189, 1949606, 1948452, 1946575

**Servicing:** 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

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**134031** D.E. Bracket

**Servicing:** 150, 168, 172, 3471150, 3471168, 3471172, 3471393

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**139137#** D.E. Bracket

**Servicing:** 174, 3471170, 3471174, 3471850

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**139283** D.E. Bracket

**Replacing:** 1984590, 1984097

**Servicing:** 10MT, SD300, 10455301, 10455305, 10455306, 10455308, 10455343, 10455603, 10496873, 10496874, 1107781, 1108338, 1108427

*w/ bushing.*

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#Available while stock last, * Program development.

**230110** D.E. Bracket

**Replacing:** 830845

**Servicing:** 10MT, 1108400, 1108755, 1108756, 1109481, 1109486, 1109487, 1109488, 1109489, 1109490, 1109492, 1998317, 1998318

**230542** D.E. Bracket

**Replacing:** 1988779, 1988438, 1988137

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478803, 10478804, 10478809, 10478810

**231244** D.E. Bracket

**Replacing:** 10476793

**Servicing:** PG260M, 8000193, 9000798, 9000820, 9000822, 9000850

*Needle bearing: HC-CARGO 140242.*

**231246** D.E. Bracket

**Replacing:** 10476596

**Servicing:** PG260M, 9000786, 9000819, 9000821, 9000851, 9000860, 9000899

*Needle bearing: HC-CARGO 140242.*

**231742** D.E. Bracket

**Replacing:** 10457026

**Servicing:** 28MT, 10479605, 10479615, 10479616, 10479617, 10479621, 10479623, 10479634, 1113275, 1113276, 1113277, 1113278, 1113291

**231745** D.E. Bracket

**Replacing:** 10457170, 10457029

**Servicing:** 28MT, 10479600, 10479606, 10479615, 10479618, 10479629, 1113279, 1113280, 1113281, 1113282, 1113285

**231748#** D.E. Bracket

**Replacing:** 10467626, 10456482

**Servicing:** SD260, 10455013, 10455042, 10455050, 10455070, 10465065

*Needle bearing: HC-CARGO 140421.*

**232050** D.E. Bracket

**Replacing:** 1970310, 1968122, 1967277, 1965529, 1876881

**Servicing:** 10MT, SD300, 10455300, 1107237, 1107242, 1107247, 1107248, 1107259, 1107260, 1107266, 1107301, 1107302, 1107306

*w/ bushing.*

**232501** D.E. Bracket

**Replacing:** 1987887

**Servicing:** 37MT, 10478805, 1990499, 1993756, 1993817, 1993838, 1993862, 1993879, 1993903, 1993919, 1993921, 1993954, 1993956

**233758** D.E. Bracket

**Replacing:** 10457359

**Servicing:** 10461470, 10479626, DRX67095, DRX67149

## I.M. Brackets

**230678** I.M. Bracket

**Replacing:** 1962602

**Servicing:** 10455321, 10455322, 10455324, 10455325, 10455326, 10455331, 10455332, 10455333, 10455500, 1107295, 1107296, 1107297

*Wet clutch starters.*

**230679** I.M. Bracket

**Replacing:** 820149, 1986468, 10496109

**Servicing:** 10455317, 10455318, 10455319, 10455327, 10455336, 10455337, 10455339, 1107051, 1107071, 1107146, 1107179, 1107193



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#Available while stock last, * Program development.

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## 230778 I.M. Bracket

**Replacing:** 10457037

**Servicing:** 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615, 10479616, 10479617

## 230821# I.M. Bracket

**Replacing:** 1988093, 10473716

**Servicing:** 10478801, 10478803, 10478804, 10478809, 10478810, 10478824, 10478839, 10478980, 10478986, 10478998, 10479052, 10479053

## 231105 I.M. Bracket

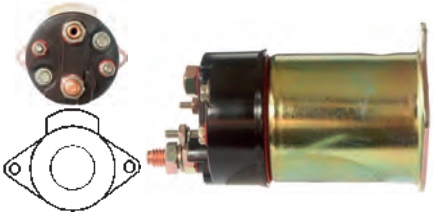
**Replacing:** 10456470

**Servicing:** 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479614, 10479615

*Dry clutch.*

# Solenoids

## 12 V

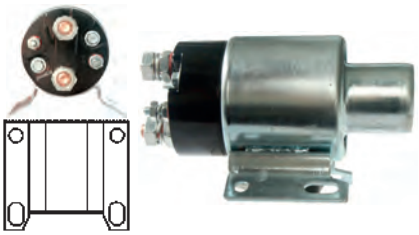


## 130499 Solenoid

Replacing: **D992, D**982, D981, D978, D975, D974, D969, D967, D966, D965, D960, D958, D956, D952, D948, D943

Servicing: **10MT, 2**0MT, 25MT, 27MT, 10455308, 10455309, 10455310, 10455311, 10455322, 10455335, 1107201, 1107203, 1107204, 1107223

12 V, B+ 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 31.35, **OD** 59.80, **OD/cover** 65.10, **Total length** 122.15, **Coil bolt** 3/8" UNC, **No./terminals** 4
*Cap: HC-CARGO 130497.*

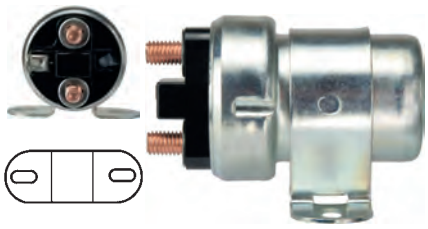


## 130500 Solenoid

**Replacing:** D980, D971, D970, D959, D954, 1119935, 1119933, 1119890, 1119885, 1119882, 1119877, 1119833

**Servicing:** 30MT, 35MT, 1113059, 1113066, 1113070, 1113075, 1113082, 1113083, 1113087, 1113088, 1113089, 1113090, 1113091, 1113092

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.25, **OD** 67.15, **OD/cover** 62.90, **Total length** 152.80, **Height/B+** 18.50, **Width/kl. 15a** 15.50, **Width/kl. 50** 11.00, **Coil bolt** 3/8" UNC, **Coil bolt 2** 19.50, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 130498.*



## 131080 Solenoid

**Replacing:** 19024764

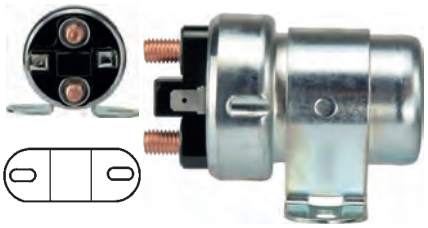
12 **V**, 50 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 39.70, **Total length** 86.40, **Height/B+** 12.25, **Width/kl. 50** 9.55, **Coil bolt** M8, **Coil bolt 2** 12.25, **Seconds** 5, **No./terminals** 3

## 131119 Solenoid

**Replacing:** DR902, 3471982, 3471741, 3471693

**Servicing:** 3471143, 3471163

12 **V**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **ID/cover** 21.65, **OD** 51.00, **OD/cover** 53.55, **Total length** 113.40, **Height/B+** 10.45, **Width/kl. 15a** 14.20, **Width/kl. 50** 14.20, **No./terminals** 4
*Cap: HC-CARGO 130489. w/o plunger.*



## 131253 Solenoid

**Replacing:** 19024762

12 **V**, 60 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 39.65, **Total length** 85.75, **Height/B+** 11.85, **Width/kl. 50** 9.85, **Coil bolt** M8, **Coil bolt 2** 11.85, **Seconds** 5, **No./terminals** 4

## 131272 Solenoid

**Replacing:** DR903, 3491027, 3471977, 3471697

**Servicing:** 150, 163, 168, 172, 176, 3471150, 3471160, 3471163, 3471168, 3471171, 3471172, 3471176, 3471390, 3471393

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.60, **OD/cover** 56.40, **Total length** 107.60, **Height/B+** 14.45, **Width/kl. 50** 15.40, **Coil bolt** M8, **Coil bolt 2** 15.30, **No./terminals** 4
*Cap: HC-CARGO 133180. w/o plunger.*

## 131273 Solenoid

**Replacing:** DR904, 3471979, 3471929, 3471725

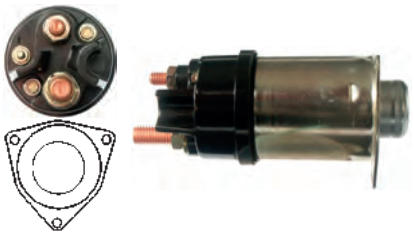
**Servicing:** 155, 169, 173, 174, 3471155, 3471162, 3471169, 3471170, 3471173, 3471174, 3471377, 3471850

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.15, **OD/cover** 54.45, **Total length** 107.25, **Height/B+** 15.80, **Coil bolt** M8, **Coil bolt 2** 15.80, **No./terminals** 3
*Cap: HC-CARGO 133181.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

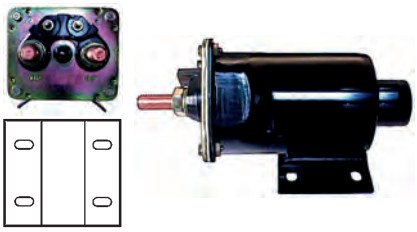


## 131356 Solenoid

**Replacing:** 1115591

**Servicing:** 37MT, 1990308, 1990319, 1990341

12 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.40, **OD** 68.55, **OD/cover** 76.80, **Total length** 177.95, **Coil bolt** 3/8" UNC, **No./terminals** 3
*Motor terminal: 3/8"-16. Cap: HC-CARGO 137810.*

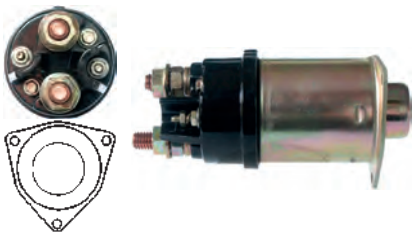


## 131363 Solenoid

**Replacing:** 1119879, 1119853, 1115575, 1115565, 1115556

**Servicing:** 40MT, 50MT, 10461041, 10461045, 10461046, 10461048, 10461059, 10461060, 10461061, 10478813, 10478877, 10478881

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 74.60, **Total length** 201.00, **Height/B+** 28.00, **Width/kl. 15a** 9.00, **Width/kl. 50** 9.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 18.00, **No./terminals** 4
*Insulated return. Square type. Cap: HC-CARGO 131367.*

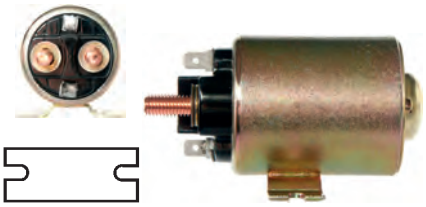


## 131369 Solenoid

**Replacing:** 1115645, 1115593

**Servicing:** 42MT, 10478801, 10478802, 10478803, 10478804, 10478810, 10478894, 10478962, 10478964, 10478966, 10478967, 10478978

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 68.80, **OD/cover** 78.10, **Total length** 177.80, **Height/B+** 26.00, **Width/kl. 15a** 12.50, **Width/kl. 50** 12.50, **Coil bolt** 1/2" UNC, **Coil bolt 2** 17.50, **No./terminals** 4
*Insulated retun. Cap: HC-CARGO 135324. Solenoid w/ plunger: HC-CARGO 234476.*

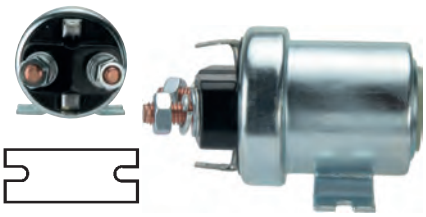


## 131370 Solenoid

**Replacing:** 19024758

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4
*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 333160 5★

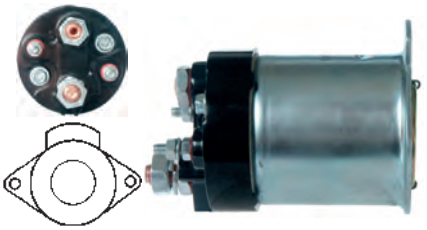


## 131373Z Solenoid

**Replacing:** 19024761

12 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 54.17, **OD/cover** 43.36, **Total length** 92.00, **Height/B+** 17.34, **Coil bolt** M8, **Coil bolt 2** 17.34, **Seconds** 5, **No./terminals** 4
*Silver contact.*

**Alternative no.:** 333153 5★, 131373

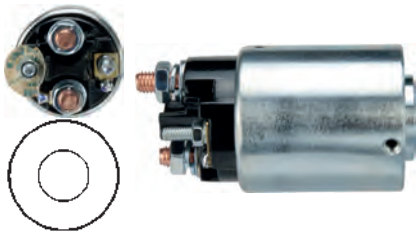


## 131590 Solenoid

**Replacing:** D994, D991, D987, D984, D913A, 1114571, 1114569, 1114566, 1114564, 1114562, 1114557, 1114531

**Servicing:** 5MT, 22MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 28.50, **OD** 59.90, **OD/cover** 65.55, **Total length** 105.25, **Height/B+** 14.50, **Width/kl. 15a** 10.00, **Width/kl. 50** 10.00, **Coil bolt** 3/8" UNC, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 137809.*



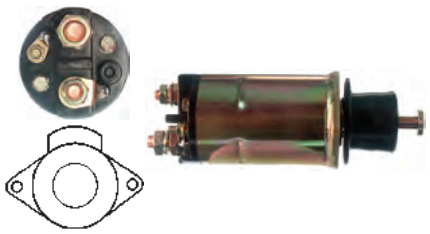
## 132944 Solenoid

**Replacing:** D936A, D922A, 10497275, 10468962, 10467421

**Servicing:** PG100, 150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000719, 9000735, 9000751, 9000758, 9000762, 9000763

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.10, **OD** 51.40, **OD/cover** 44.35, **Total length** 93.40, **Height/B+** 16.50, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 17.85, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 139429. Moving contact: HC-CARGO 139430.*

**Alternative no.:** 610363

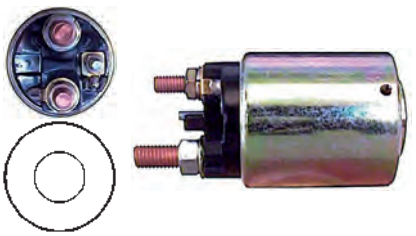


## 133852 Solenoid

**Replacing:** D930A, 10457055

**Servicing:** 28MT, 10479604, 10479613, 10479615, 10479619, 10479621, 1113273, 1113274, 1113275, 1113276, 1113278, 1113279, 1113280

12 **V**, **B+** M10, **Kl. 50** M5, **OD** 57.00, **OD/cover** 57.00, **Total length** 175.00, **Height/B+** 16.50, **Width/kl. 50** 7.50, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3
*Cap: HC-CARGO 134841. Terminal switch: M5.*



## 135461 Solenoid

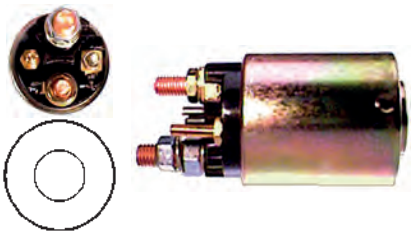
**Servicing:** PG200PMGR, PG250PMGR, 9000762, 9000768, 9000796

12 **V**, **B+** M10, **Kl. 50** M5, **ID/cover** 24.30, **OD** 51.30, **OD/cover** 44.60, **Total length** 104.85, **Height/B+** 25.90, **Width/kl. 50** 15.65, **Coil bolt** M8, **Coil bolt 2** 18.40, **No./terminals** 3
*Cap: HC-CARGO 139432.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



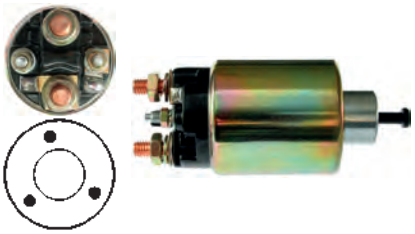
## 137339 Solenoid

**Replacing:** 1114581, 1114580, 10467985

**Servicing:** PG200, -250

12 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** M5, **ID/cover** 24.50, **OD** 51.40, **OD/cover** 44.30, **Total length** 100.20, **Height/B+** 20.00, **Width/kl. 15a** 11.50, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 4

*Cap: HC-CARGO 233820.*



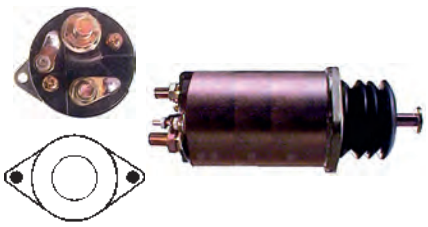
## 137370 Solenoid

**Replacing:** 1114583

**Servicing:** PG260FI, PG260M, 8000193, 9000819, 9000820, 9000821, 9000822, 9000840, 9000850, 9000879, 9000884, 9000885, 9000895

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 52.50, **Total length** 123.90, **Height/B+** 16.00, **Width/kl. 15a** 11.00, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 16.00, **No./terminals** 4

*Cap: HC-CARGO 232226.*



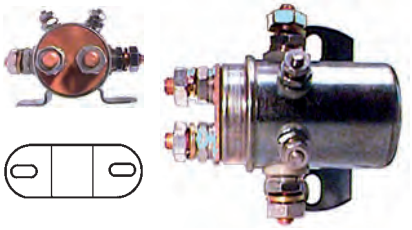
## 137811 Solenoid

**Replacing:** 10456454

**Servicing:** 28MT, 10465054, 1113267, 1113269, 1113270, 1113295, 1113296

12 **V**, **B+** M10, **Kl. 50** M4, **OD** 56.90, **OD/cover** 57.20, **Total length** 174.00, **Height/B+** 16.00, **Width/kl. 50** 8.00, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3

*Cap: HC-CARGO 137824.*

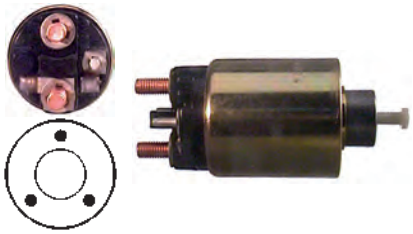


## 138068 Solenoid

**Replacing:** 1114534, 1114223

12 **V**, 200 **Amp**, **Intermittent load** 900 Amp., **B+** 5/16" UNF, **Kl. 50** 10-32 UNF, **OD** 42.00, **Total length** 89.35, **Height/B+** 12.00, **Width/kl. 50** 8.00, **Coil bolt** 5/16" UNF, **Coil bolt 2** 12.00, **Seconds** 5, **No./terminals** 6

*Silver contact.*



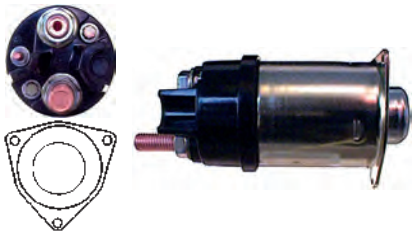
## 138217 Solenoid

**Replacing:** 1114587, 10475654, 10475646

**Servicing:** PG260, 10455513, 10455515, 12564089, 22506694, 8000180, 9000775, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 52.50, **OD/cover** 46.40, **Total length** 124.20, **Height/B+** 16.50, **Width/kl. 50** 10.50, **Coil bolt** M8, **Coil bolt 2** 16.50, **No./terminals** 3

*Cap: HC-CARGO 138409. Moving contact: HC-CARGO 138410.*



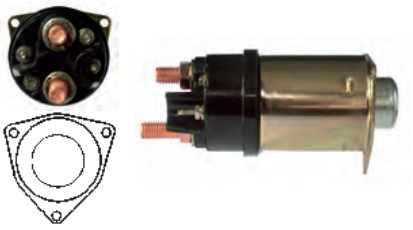
## 139209 Solenoid

**Replacing:** D904A, 1115613, 1115609

**Servicing:** 37MT, 10478806, 10479036, 10479068, 1990309, 1990310, 1990313, 1990315, 1990316, 1990317, 1990320, 1990498, 1993705

12 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.00, **OD** 68.75, **OD/cover** 77.40, **Total length** 179.00, **Height/B+** 26.00, **Coil bolt** 1/2" UNC, **No./terminals** 3

*Cap: HC-CARGO 232014.*



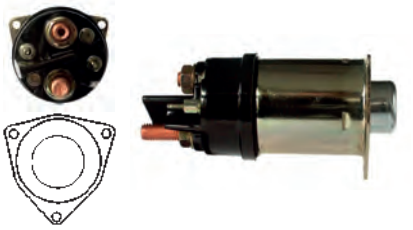
## 231912 Solenoid

**Replacing:** 1115598

**Servicing:** 42MT, 10478918, 10478965, 10478977, 10478984, 10478985, 10478991, 10479003, 1990369, 1990374, 1990380, 1990396, 1990401

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 31.80, **OD** 69.15, **OD/cover** 76.10, **Total length** 176.80, **Coil bolt** 1/2" UNC, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 232032.*



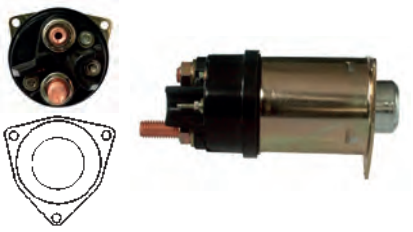
## 231913 Solenoid

**Replacing:** D917A, 1115623

**Servicing:** 37MT, 10478805, 10478927, 10478928, 10478929, 10478930, 10478957, 10479014, 10479015, 10479034, 10479054, 1993851

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.35, **OD** 69.00, **OD/cover** 70.25, **Total length** 176.45, **Width/kl. 15a** 11.70, **Width/kl. 50** 15.95, **Coil bolt** 1/2" UNC, **Coil bolt 2** 9.15, **No./terminals** 4

*Cap: HC-CARGO 232025.*



## 231914 Solenoid

**Replacing:** 1115610

**Servicing:** 37MT, 1993767, 1993854

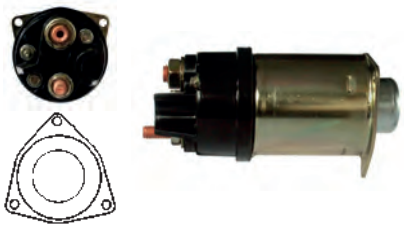
12 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.25, **OD** 68.85, **OD/cover** 76.40, **Total length** 177.65, **Coil bolt** 1/2" UNC, **No./terminals** 3

*Cap: HC-CARGO 232028.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

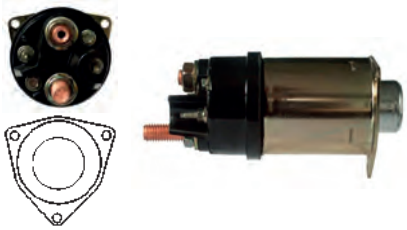


## 231915 Solenoid

**Replacing:** D905A, 1115612

**Servicing:** 37MT, 1993790, 1993791, 1993792, 1993793, 1993799, 1993800, 1993818, 1993854

12 **V**, **B+** 3/8" UNC, **Kl. 50** 10-32 UNF, **OD** 68.50, **OD/cover** 76.30, **Total length** 170.00, **Height/B+** 19.50, **Width/kl. 50** 9.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 3.00, **No./terminals** 3
*Cap: HC-CARGO 232029.*

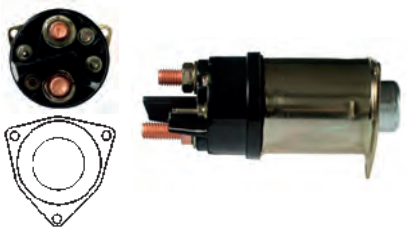


## 231916 Solenoid

**Replacing:** D923A, 1115618

**Servicing:** 37MT, 10461169, 10478953, 10479035, 10479069, 1993947, 1993969, 1993970, 1993974, 1993997

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.35, **OD** 68.85, **OD/cover** 76.45, **Total length** 178.00, **Width/kl. 15a** 15.25, **Width/kl. 50** 15.70, **Coil bolt** 1/2" UNC, **Coil bolt 2** 10.50, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232030.*

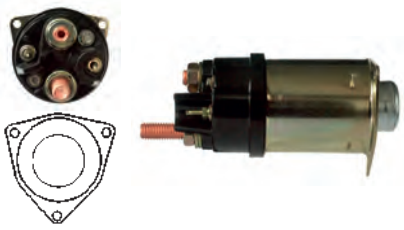


## 231917 Solenoid

**Replacing:** D918A, 1115656, 1115624, 10511213

**Servicing:** 42MT, 10478931, 10478932, 10478933, 10478934, 10478935, 10478936, 10478951, 10478987, 10479004, 10479005, 10479006

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.80, **OD** 68.00, **OD/cover** 76.30, **Total length** 178.35, **Coil bolt** 1/2" UNC, **No./terminals** 4
*Insulated return. Jump start protection cap. Cap: HC-CARGO 232031.*

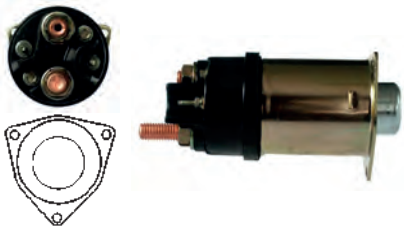


## 231921 Solenoid

**Replacing:** D942A, 1115643

**Servicing:** 37MT, 10478890, 10478921

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.80, **OD** 68.90, **OD/cover** 76.50, **Total length** 183.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 10.50, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232035.*

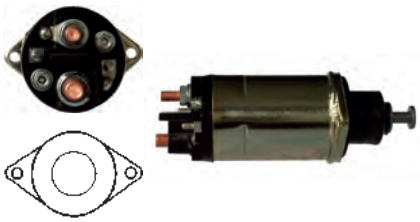


## 231925 Solenoid

**Replacing:** D924A, 1115617

**Servicing:** 37MT, 1993866, 1993971

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.20, **OD** 68.75, **OD/cover** 76.20, **Total length** 179.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 11.00, **No./terminals** 4
*Insulated retun. Cap: HC-CARGO 232038.*

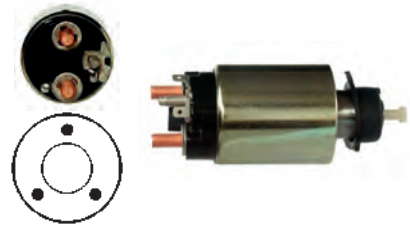


## 231927 Solenoid

**Replacing:** D937A, 10478614, 10457601, 10457151, 10457061

**Servicing:** 28MT, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479620, 10479628, 10479648, 1113271

12 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** M5, **OD** 57.00, **OD/cover** 56.75, **Total length** 174.50, **Height/B+** 16.00, **Width/kl. 15a** 10.00, **Width/kl. 50** 7.00, **Coil bolt** M8, **Coil bolt 2** 15.75, **No./terminals** 4
*Relay terminal: M5.*

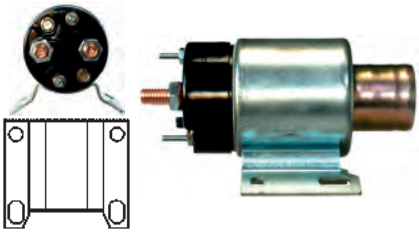


## 231929 Solenoid

**Replacing:** 10482844, 10476117

**Servicing:** PG150S, 10455506, 21020761, 9000794, 9000795, 9000817, 9000824, 96208781, 96208782, 96208785

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.15, **OD** 51.35, **OD/cover** 49.50, **Total length** 127.00, **Height/B+** 15.30, **Width/kl. 50** 10.00, **Coil bolt** M8, **Coil bolt 2** 14.50, **No./terminals** 3
*Cap: HC-CARGO 232052.*

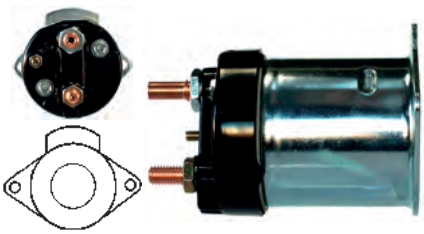


## 232218 Solenoid

**Replacing:** 1115584, 1115541, 1115530

**Servicing:** 35MT EXT. ROTATABLE, 1113389, 1113391, 1113392, 1113396, 1113397, 1113399, 1113400, 1113401, 1113404, 1113405, 1113412

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 32.20, **OD** 66.00, **OD/cover** 62.15, **Total length** 148.50, **Height/B+** 13.00, **Width/kl. 15a** 13.50, **Width/kl. 50** 10.50, **Coil bolt** 3/8" UNC, **Coil bolt 2** 15.50, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232217.*



## 232219 Solenoid

**Replacing:** D946A, 1114584, 1114576

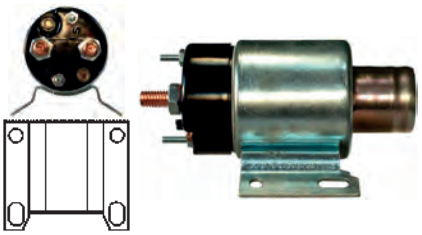
**Servicing:** SD205, -255, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455051

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 28.45, **OD** 59.40, **OD/cover** 65.80, **Total length** 105.50, **Height/B+** 15.00, **Width/kl. 50** 10.00, **Coil bolt** 16.25, **No./terminals** 3



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



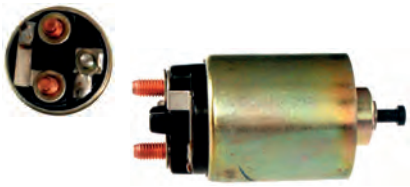
## 232221 Solenoid

**Replacing:** D985, D953, 1119883, 1115582, 1115537

**Servicing:** 30MT, 1113001, 1113034, 1113038, 1113040, 1113049, 1113050, 1113052, 1113053, 1113056, 1113081, 1113104, 1113106

12 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 32.05, **OD** 66.30, **OD/cover** 62.15, **Total length** 148.00, **Height/B+** 13.00, **Width/kl. 15a** 14.00, **Width/kl. 50** 10.50, **Coil bolt** 3/8" UNC, **Coil bolt 2** 15.00, **No./terminals** 4

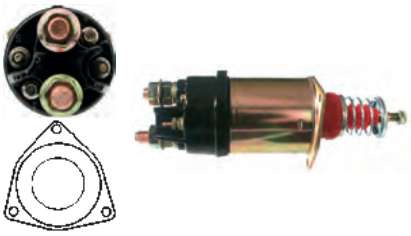
*Cap: HC-CARGO 232222.*



## 233762 Solenoid

**Servicing:** 10455503, 96275481

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 24.90, **OD** 52.40, **OD/cover** 45.55, **Total length** 128.60, **Height/B+** 13.20, **Width/kl. 50** 9.70, **Coil bolt** M8, **Coil bolt 2** 12.95, **No./terminals** 3



## 234476 Solenoid

**Replacing:** 1115712, 1115701

**Servicing:** 42MT

12 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 69.00, **OD/cover** 77.30, **Total length** 248.00, **Height/B+** 37.40, **Width/kl. 15a** 17.65, **Width/kl. 50** 16.60, **Coil bolt** 1/2" UNC, **Coil bolt 2** 28.50, **No./terminals** 4

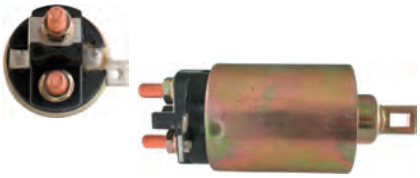
*Insulated return. Cap: HC-CARGO 135324.*

## 235006 Solenoid

**Replacing:** 1114582, 1114578, 10469039

**Servicing:** 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455051, 10455053, 10455054

12 **V**, **No./terminals** 3



## 235167 Solenoid

**Servicing:** 00E091, 110397, 112161, CER3087

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 55.48, **Total length** 135.00, **Height/B+** 19.06, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3

*Cap: HC-CARGO 235403.*

## 235609 Solenoid

**Replacing:** 10511408

**Servicing:** 10461334, 10461753, 10461755, 10461757, 10461760, 10461773, 10461777, 19011505, 19011506, 19011508, 19011510, 19011513

12 **V**, **B+** M12, **Kl. 50** M5, **OD** 63.90, **OD/cover** 63.90, **Total length** 218.00, **Height/B+** 32.50, **Width/kl. 50** 12.80, **Coil bolt** M8, **Coil bolt 2** 23.00, **No./terminals** 3

## 236315 Solenoid

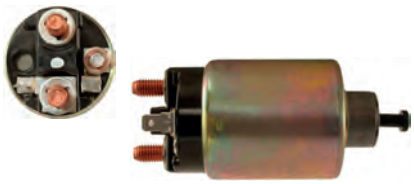
**Servicing:** 110566

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 55.40, **OD/cover** 53.00, **Total length** 133.88, **Switch dim.** 7.50, **Height/B+** 14.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3

## 238373 Solenoid

**Servicing:** 111089

12 **V**, **B+** M8, **Kl. 50** M6-6.30, **OD** 52.36, **OD/cover** 50.55, **Total length** 108.54, **Switch dim.** 6.50, **Height/B+** 13.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3

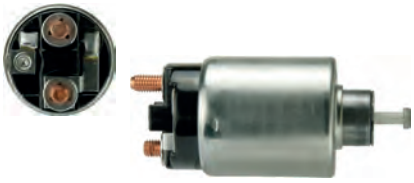


## 238620 Solenoid

**Servicing:** 8000129, 8000321, 9000936, 9000952, 9000965, 96289430, 96450663, 96550792, 96569440, 96843574

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.60, **OD/cover** 49.90, **Total length** 120.75, **Switch dim.** 14.66, **Height/B+** 14.48, **Width/kl. 50** 8.50, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 3

*HC-CARGO 238620 includes 3 tapping screws.*



## 239321 Solenoid

**Servicing:** 112816, 112847, 800264

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.55, **Total length** 120.40, **Height/B+** 15.00, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 3



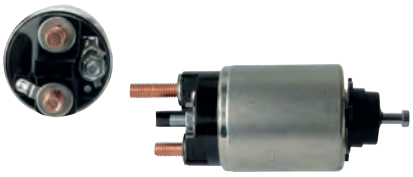
O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 330380 Solenoid

**Servicing:** 8000032

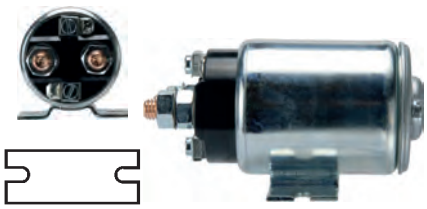
12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.56, **OD/cover** 46.71, **Total length** 132.04, **Height/B+** 23.78, **Width/kl. 50** 10.07, **Coil bolt** M8, **Coil bolt 2** 14.41, **No./terminals** 3



## 330657 Solenoid

**Servicing:** 8000048, 8000387

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 52.50, **Total length** 132.80, **Height/B+** 17.64, **Width/kl. 50** 16.00, **Coil bolt** M8, **Coil bolt 2** 14.10, **No./terminals** 3



## 333153 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 19024761

12 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.75, **OD/cover** 44.00, **Total length** 100.15, **Height/B+** 17.75, **Coil bolt** M8, **Coil bolt 2** 17.75, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131373, 131373Z

## 333781 Solenoid

**Replacing:** 10515838

**Servicing:** 19011400, 19011402, 19011403, 8200003, 8200010, 8200014, 82000295, 8200103

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 58.00, **OD/cover** 58.00, **Total length** 196.40, **Height/B+** 25.00, **Width/kl. 50** 40.00, **Coil bolt** M10, **No./terminals** 3

## 333782 Solenoid

**Replacing:** 10512093

**Servicing:** 19026027, 19026028, 19026029, 19026031, 19026035, 8200005, 8200007, 8200023, 8200025

12 **V**, **B+** M12, **Kl. 50** M5, **OD** 64.00, **OD/cover** 64.00, **Total length** 218.00, **Height/B+** 35.00, **Width/kl. 50** 50.00, **Coil bolt** M12, **No./terminals** 3

## 333844 Solenoid

**Servicing:** 10455505

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 51.70, **Total length** 130.90, **Coil bolt** M8, **No./terminals** 3

## 333849 Solenoid

**Replacing:** 10453950

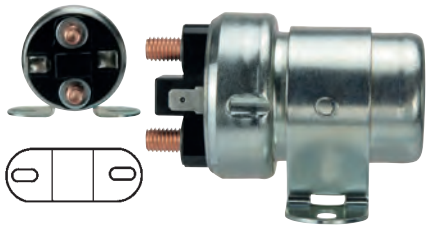
12 **V**, **B+** M8, **Kl. 50** M5, **OD** 58.00, **OD/cover** 59.00, **Total length** 188.50, **Coil bolt** M8, **No./terminals** 3

### 24 V

## 130492 Solenoid

**Replacing:** 19024765

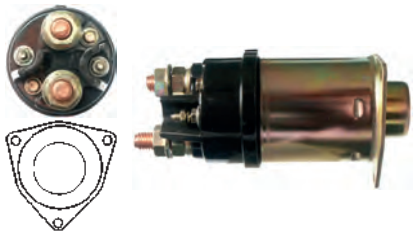
24 **V**, 50 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 40.00, **Total length** 85.00, **Height/B+** 11.30, **Width/kl. 50** 10.50, **Coil bolt** M8, **Coil bolt 2** 11.30, **Seconds** 5, **No./terminals** 3



## 131254 Solenoid

**Replacing:** 19024763

24 **V**, 50 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 39.70, **Total length** 86.30, **Height/B+** 11.80, **Width/kl. 50** 9.80, **Coil bolt** M8, **Coil bolt 2** 11.80, **Seconds** 5, **No./terminals** 4



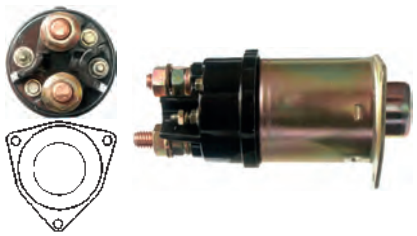
## 131349 Solenoid

**Replacing:** 1115608, 1115601, 1115595

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478839, 10478980, 10478981

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 69.45, **OD/cover** 77.00, **Total length** 159.55, **Coil bolt** 1/2" UNC, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 135323. Solenoid w/ plunger: HC-CARGO 233873.*



## 131361 Solenoid

**Replacing:** 1115605, 1115604, 1115594

**Servicing:** 37MT, 1990330, 1990331, 1990332, 1990499, 1993701, 1993702, 1993707, 1993711, 1993729, 1993732, 1993741, 1993742

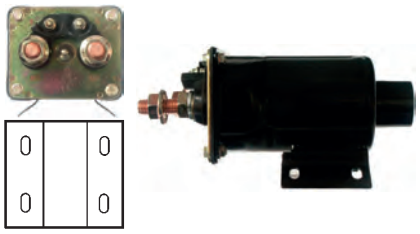
24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 33.20, **OD** 68.75, **OD/cover** 77.15, **Total length** 176.80, **Coil bolt** 1/2" UNC, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 135323.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

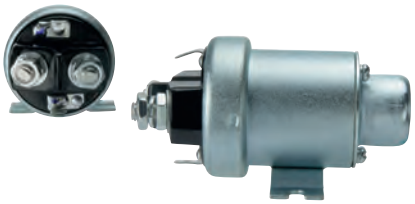


## 131364 Solenoid

**Replacing:** 1119832, 1115607, 1115576, 1115559, 1115557, 1115548, 1115547, 1115544, 1115526

**Servicing:** 40MT, 50MT, 10461047, 10478846, 10478848, 10478850, 10478851, 10478852, 10478853, 10478855, 10478856, 10478859

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 31.00, **OD** 74.40, **Total length** 201.75, **Coil bolt** 1/2" UNC, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 131368.*



## 131372Z Solenoid

**Replacing:** 19024760

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 52.01, **OD/cover** 50.22, **Total length** 102.48, **Height/B+** 17.91, **Coil bolt** 4.00, **Seconds** 5, **No./terminals** 4
*Silver contact.*

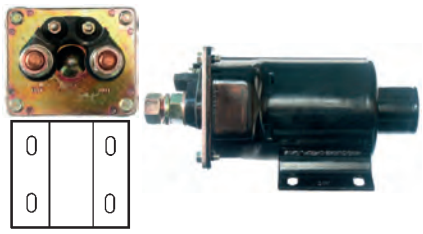
**Alternative no.:** 333152 5★

## 132696 Solenoid

**Replacing:** 1119988, 1119888, 1119858, 1119855, 1115583, 1115543, 1115513, 1115512, 1114322

**Servicing:** 30MT, 1107607, 1108128, 1108151, 1108629, 1108652, 1108668, 1109758, 1109996, 1113135, 1113148, 1113162, 1113163

24 **V**, **B+** 3/8" UNC, **Kl. 15a** 8-32 UNC, **Kl. 50** 8-32 UNC, **ID/cover** 32.10, **OD** 66.30, **OD/cover** 62.00, **Total length** 147.30, **Height/B+** 12.00, **Width/kl. 15a** 13.50, **Width/kl. 50** 10.50, **Coil bolt** 3/8" UNC, **Coil bolt 2** 14.50, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232216.*

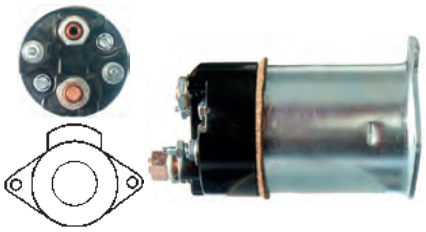


## 133060 Solenoid

**Replacing:** 1119878, 1119872, 1115564, 1115563, 1115558, 1115555, 1115517

**Servicing:** 40MT, 1109773, 1109831, 1109973, 1109983, 1113371, 1113372, 1113375, 1113546, 1113587, 1113953, 1113984, 1114740

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 75.85, **Total length** 201.00, **Coil bolt** 1/2" UNC, **No./terminals** 4
*Cap: HC-CARGO 131368. w/ reverse terminal. Insulated return. Square silver contacts.*

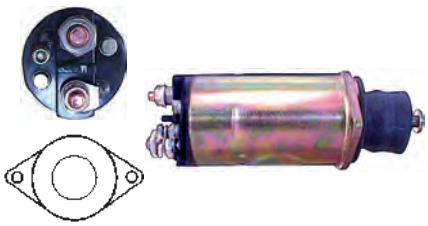


## 133814 Solenoid

**Replacing:** 1114373, 1114338, 1114327, 1114298, 1114293

**Servicing:** 22MT, 27MT, 1107555, 1107559, 1107572, 1108250, 1109140, 1113591, 1113594, 1113596, 1113600, 1998351, 1998409, 1998426

24 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** M4, **ID/cover** 31.15, **OD** 60.85, **OD/cover** 62.30, **Total length** 121.30, **Height/B+** 18.15, **Width/kl. 15a** 17.00, **Width/kl. 50** 13.30, **Coil bolt** M10, **Coil bolt 2** 6.40, **No./terminals** 4
*Isolated buttom.*

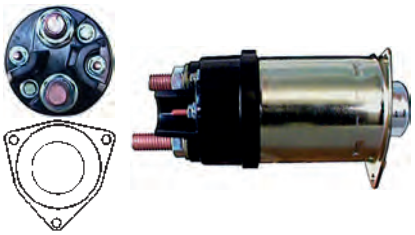


## 135521 Solenoid

**Replacing:** 10457116

**Servicing:** 28MT, 10479605, 10479612, 10479623, 1113277, 1113291

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 57.00, **OD/cover** 56.70, **Total length** 177.50, **Height/B+** 14.00, **Width/kl. 50** 6.50, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 3
*Cap: HC-CARGO 138898. Terminal switch: M5.*

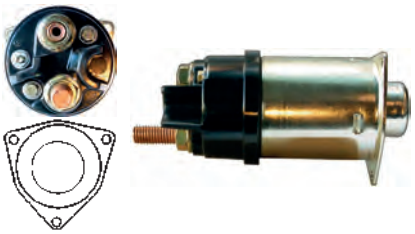


## 139337 Solenoid

**Replacing:** D903A, 1115600, 1115597

**Servicing:** 42MT, 10478836, 10478892, 10478893, 10478979, 1990381, 1990411, 1990414, 1990416, 1993822, 1993827, 1993996, 1993998

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 31.60, **OD** 68.65, **OD/cover** 76.25, **Total length** 180.00, **Width/kl. 15a** 13.65, **Width/kl. 50** 13.65, **Coil bolt** 1/2" UNC, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232034.*

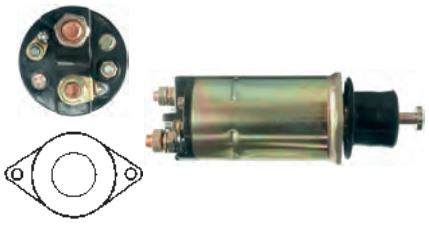


## 230198 Solenoid

**Replacing:** D931A, D915A, 1115640, 1115621, 1115619

**Servicing:** 37MT, 10478814, 10478817, 10478925, 1993901, 1993902, 1993903, 1993905, 1993909, 1993910, 1993911, 1993914, 1993919

24 **V**, **B+** 1/2" UNC, **Kl. 50** 10-32 UNF, **ID/cover** 32.15, **OD** 68.80, **OD/cover** 76.20, **Total length** 178.55, **Width/kl. 50** 15.85, **Coil bolt** 1/2" UNC, **Coil bolt 2** 10.60, **No./terminals** 3
*Cap: HC-CARGO 232026. Silver contact. Plunger: HC-CARGO 133022.*



## 231251 Solenoid

**Replacing:** 10457152, 10457115

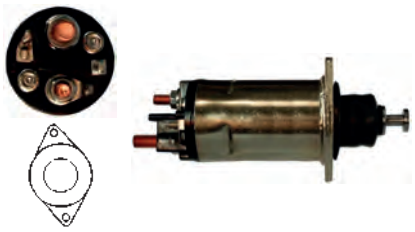
**Servicing:** 28MT, 10479600, 10479608, 10479616, 10479629, 1113272

24 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** M5, **OD** 57.00, **OD/cover** 56.85, **Total length** 183.40, **Height/B+** 16.00, **Width/kl. 15a** 10.00, **Width/kl. 50** 7.50, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 4
*Cap: HC-CARGO 233461. Silver contact. Dummy terminal: M5. Relay terminal: M5.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



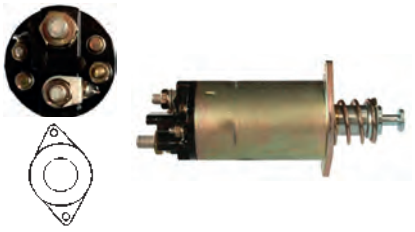
## 231800 Solenoid

**Replacing:** 10457368

**Servicing:** 28MT, 10461470, 10479626, DRX67095, DRX67149

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M5, **OD** 58.00, **OD/cover** 59.35, **Total length** 194.00, **Height/B+** 28.00, **Width/kl. 15a** 10.00, **Width/kl. 50** 8.00, **Coil bolt** M8, **Coil bolt 2** 14.00, **No./terminals** 4

*Relay terminal: M5.*



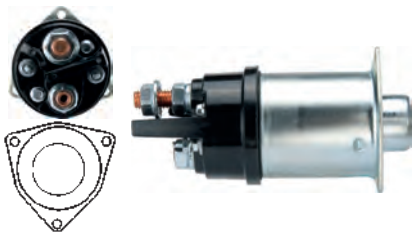
## 231819 Solenoid

**Replacing:** 10457369

**Servicing:** 28MT, 10479627, 19024204, DRX67131

24 **V**, **B+** M10, **Kl. 15a** M6, **Kl. 50** M5, **OD** 57.05, **OD/cover** 57.20, **Total length** 188.80, **Height/B+** 22.50, **Width/kl. 15a** 11.00, **Width/kl. 50** 9.50, **Coil bolt** M8, **Coil bolt 2** 13.50, **No./terminals** 4

*Relay terminal: M5. Cap: HC-CARGO 232203.*



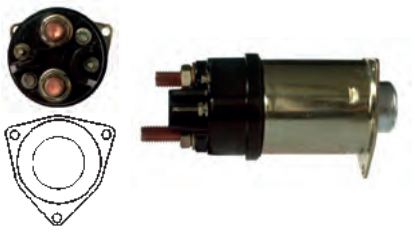
## 231919 Solenoid

**Replacing:** D921A, D916A, 1115627, 1115622

**Servicing:** 10478811, 10478819, 10478960, 10478976, 10479020, 1993917, 1993918, 1993920, 1993921, 1993930, 1993953, 1993954

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.60, **OD** 68.85, **OD/cover** 77.40, **Total length** 178.00, **Width/kl. 50** 17.30, **Coil bolt** 1/2" UNC, **Coil bolt 2** 16.00, **No./terminals** 4

*Dummy terminal: 10-32. Jump start sheath. Silver contacts. Cover: HC-CARGO 232027. Coil Resistance: Suction Pole = 0.635. Team Coil = 3.150.*



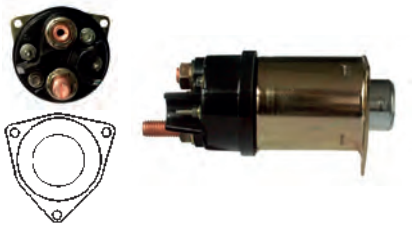
## 231920 Solenoid

**Replacing:** D919A, 1115625

**Servicing:** 42MT, 10478937, 10478938, 10478939, 10478940, 10478941, 10478942, 10478943, 10478944, 10478946, 10478947, 10478948

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.85, **OD** 69.20, **OD/cover** 76.15, **Total length** 177.75, **Coil bolt** 1/2" UNC, **No./terminals** 4

*Insulated return. Jump start protection cap. Silver contacts. Cap: HC-CARGO 232033.*



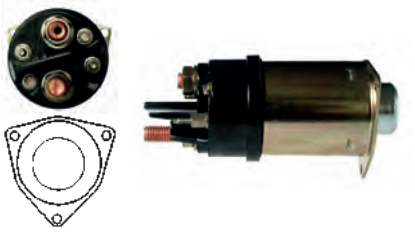
## 231922 Solenoid

**Replacing:** DR939A, D939A, 1115641

**Servicing:** 41MT, 10478898, 10479024, 10479043, 10479079

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 69.00, **OD/cover** 76.45, **Total length** 178.20, **Coil bolt** 1/2" UNC, **Coil bolt 2** 10.45, **No./terminals** 4

*Insulated return. Cap: HC-CARGO 232036.*



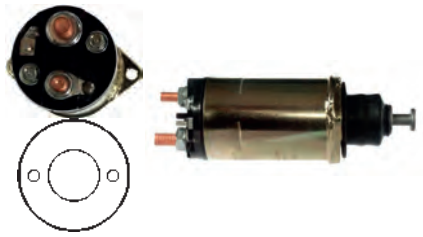
## 231926 Solenoid

**Replacing:** 1115634

**Servicing:** 41MT, 10478815, 10478961, 10479013, 10479172, 1993995

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **ID/cover** 32.30, **OD** 69.00, **OD/cover** 76.40, **Total length** 178.55, **Coil bolt** 1/2" UNC, **Coil bolt 2** 11.00, **No./terminals** 4

*Cap: HC-CARGO 232039.*



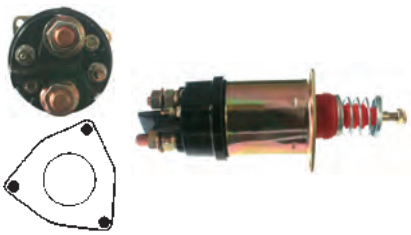
## 231928 Solenoid

**Replacing:** 10457123

**Servicing:** 28MT, 10479611

24 **V**, **B+** M10, **Kl. 50** 8-32 UNC, **OD** 57.90, **OD/cover** 57.40, **Total length** 182.25, **Height/B+** 21.35, **Width/kl. 50** 7.80, **Coil bolt** M8, **Coil bolt 2** 17.90, **No./terminals** 3

*Switch terminal: UNC 8-32.*



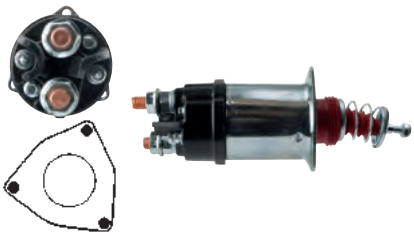
## 233869 Solenoid

**Replacing:** 1115683, 1115663, 1115657

**Servicing:** 42MT, 10479009, 10479010, 10479178

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 68.80, **OD/cover** 77.30, **Total length** 248.30, **Height/B+** 25.50, **Width/kl. 15a** 12.00, **Width/kl. 50** 12.00, **Coil bolt** 1/2" UNC, **Coil bolt 2** 18.00, **No./terminals** 4

*Insulated return. Solenoid cap: HC-CARGO 232033.*



## 233873 Solenoid

**Replacing:** 1115673, 1115668, 1115667

**Servicing:** 42MT

24 **V**, **B+** 1/2" UNC, **Kl. 15a** 10-32 UNF, **Kl. 50** 10-32 UNF, **OD** 68.55, **OD/cover** 77.25, **Total length** 248.00, **Coil bolt** 1/2" UNC, **No./terminals** 4

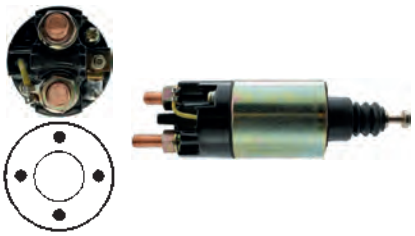
*Insulated return. Cap: HC-CARGO 232196.*

## 235758 Solenoid

**Replacing:** 10511409

**Servicing:** 10461754, 10461756, 10461758, 10461759, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527

24 **V**, **B+** M12, **Kl. 50** M5, **OD** 63.95, **OD/cover** 63.75, **Total length** 217.95, **Height/B+** 32.20, **Coil bolt** M12, **Coil bolt 2** 22.65, **No./terminals** 4



## 237845 Solenoid

**Replacing:** 10515696, 10511799

**Servicing:** 39MT, 19011501, 19024196

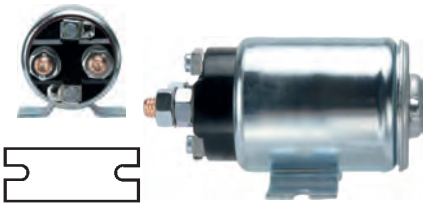
24 **V**, **B+** M12, **Kl. 50** M5, **OD** 64.00, **OD/cover** 63.50, **Total length** 224.65, **Height/B+** 38.10, **Width/kl. 50** 13.55, **Coil bolt** M12, **Coil bolt 2** 31.45, **No./terminals** 3

## 333002 Solenoid

**Replacing:** 10512094

**Servicing:** 19026030, 19026032, 8200000, 8200024, 8200072

24 **V**, **B+** 31.23, **Kl. 50** M5, **OD** 64.00, **OD/cover** 64.00, **Total length** 218.00, **Height/B+** M12x1.75, **Coil bolt** M12x1.75, **Coil bolt 2** 23.61, **No./terminals** 3



## 333152 5★ Solenoid

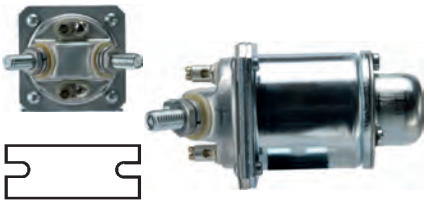
**Manufacturer:** Bosch

**Replacing:** 19024760

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.50, **OD/cover** 43.55, **Total length** 100.55, **Height/B+** 17.85, **Coil bolt** M8, **Coil bolt 2** 17.85, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131372



## 333156 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 19024759

24 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **OD** 51.70, **OD/cover** 43.45, **Total length** 99.60, **Height/B+** 17.35, **Coil bolt** M8, **Coil bolt 2** 17.35, **Seconds** 5, **No./terminals** 4

*Silver contact. Insulated return.*

**Alternative no.:** 131371

## 333845 Solenoid

**Replacing:** 10518782

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 58.00, **OD/cover** 59.00, **Total length** 197.90, **Coil bolt** M8, **No./terminals** 3

## Safety Switches

### 12 V

## 230186 Safety Switch

**Replacing:** 10457367, 10457366

**Servicing:** 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

*24 V.*

## 234163 Safety Switch

**Replacing:** 10484662

**Servicing:** 28MT, 10479637

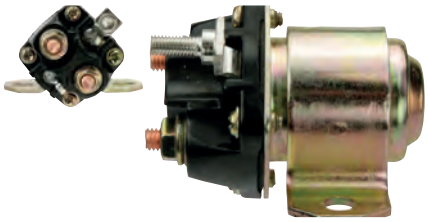
*12 V.*

## 235444 Safety Switch

**Replacing:** 120483614, 10483614, 10477892, 10457565

**Servicing:** 10479026, 10479027, 10479028, 10479030, 10479040, 10479041

12 **V**



## 235699 Safety Switch

**Replacing:** 10511414, 10511368

**Servicing:** 19011506, 19011508, 19011510, 19011513, 19011514, 19011515, 19011516, 19011517, 19011518, 19011519, 19011521, 19011525

12 **V**, **Terminals** 3, **Bracket** w/, **Diode** w/o, **Resistor** w/o



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#Available while stock last, * Program development.

**333841** Safety Switch

**Replacing**: 10512096

**Servicing**: 19026027, 19026028, 19026029, 19026031, 19026035, 8200005, 8200007, 8200023, 8200025, 8200075, 8200076, 8300005

12 V, **B+** M6, **KI. 50** M5, **OD** 48.75, **Total length** 69.65, **No./terminals** 3

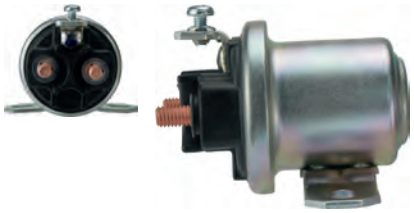
**333847** Safety Switch

**Replacing:** 10515872, 10515812

**Servicing:** 10479646, 10479651, 8200003, 8200013, 8200103, 8200295

12 **V**, **KI. 50** M6, **OD** 48.85, **Total length** 69.75, **No./terminals** 3

## 24 V

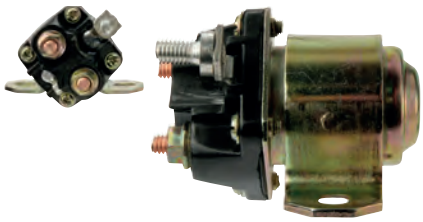


**333840** Safety Switch

**Replacing:** 1115659, 10512476

**Servicing:** 10479652

24 **V**, **B+** M6, **KI. 50** M4, **OD** 48.75, **Total length** 69.50, **No./terminals** 3



**237835** Safety Switch

**Replacing:** 10514696, 10511415, 10511369

**Servicing:** 19011501, 19011507, 19011509, 19011511, 19011512, 19011522, 19011523, 19011524, 19011527, 19024196, 8200009, 8200022

24 **V**, **KI. 50** M6, **OD** 35.68, **Total length** 67.28, **Width/kl. 50** 13.10

# Solenoid Parts

## Solenoid Caps

**130488** Solenoid Cap

**Servicing:** 141, 150, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 3471141, 3471144, 3471150, 3471153, 3471154, 3471155

**OD** 54.00, **No./terminals** 4

*HC-CARGO 130963.*

**130489** Solenoid Cap

**Servicing:** 152, 3471143, 3471152, 3471693, 3471696, DR902

**OD** 53.80, **No./terminals** 4

*HC-CARGO 131119.*

**130497** Solenoid Cap

**Servicing:** 5MT, 10MT, 20MT, 25MT, 10455301, 10455305, 10455306, 10455308, 10455603, 10496873, 10496874, 1107203, 1107237, 1107242

**OD** 66.30, **No./terminals** 4

*HC-CARGO 130499.*

**130498** Solenoid Cap

**Servicing:** 30MT, 1113652, 1113683, 1115540

**OD** 62.00, **No./terminals** 4

*HC-CARGO 130500.*

**131057** Solenoid Cap

**Replacing:** 1958218

**Servicing:** 40MT

**OD** 90.85, **No./terminals** 2

*12 V. Silver contact.*

**131058** Solenoid Cap

**Replacing:** 1967330, 1961463, 1957789, 1953242, 1945400, 1906493, 1902610, 1901272, 1893477, 1880449, 1876849

**Servicing:** 40MT, 50MT, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969

**OD** 90.80, **No./terminals** 2

*24 V. Silver contact.*

**131367** Solenoid Cap

**Replacing:** 1979634

**Servicing:** 40MT, 50MT, 1115556

**OD** 100.30

*12 V. Squareface. Silver contact.*

**131368** Solenoid Cap

**Replacing:** 1979498, 1979458, 1979413

**Servicing:** 40MT, 50MT, 10478864, 1109290, 1113818, 1113824, 1113825, 1113827, 1113840, 1113842, 1113846, 1113849, 1113850, 1113851

**OD** 98.00, **No./terminals** 4

*24 V. Squareface. Silver contact.*



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**133180** Solenoid Cap

**Servicing:** 177, 3471177, 3471697, DR903

**OD** 56.65, **No./terminals** 4

*Low type: HC-CARGO 131272.*

**133181** Solenoid Cap

**Servicing:** 3471725

**OD** 54.65, **No./terminals** 3

*Low type. HC-CARGO 131273.*

**134841** Solenoid Cap

**Servicing:** 28MT, 10457055, 10479613, 10479615, 10479621, 10479627, 1113273, 1113276, 1113281, 1113282, 19024204, 8200138, DRX67131

**OD** 56.60, **No./terminals** 3

*HC-CARGO 133852.*

Pkg. 5

**135323** Solenoid Cap

**Replacing:** 1989500, 135323, 10495812

**Servicing:** 37MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478980, 10478986, 10478998

**OD** 76.85, **No./terminals** 4

*24 V. Silver contact. HC-CARGO 131349, 131361.*

**135324** Solenoid Cap

**Replacing:** 1989499, 135324

**Servicing:** 42MT, 1115593

**OD** 76.85, **No./terminals** 4

*HC-CARGO 131369.*

**137809** Solenoid Cap

**Servicing:** 5MT, 22MT, 10455006, 10455016, 10455017, 10455019, 10455024, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308

**OD** 65.80, **No./terminals** 4

*HC-CARGO 131590.*

**137824** Solenoid Cap

**Servicing:** 28MT, 10456454, 10465054, 1113267, 1113270, 1113296

**OD** 56.90, **No./terminals** 3

*HC-CARGO 137811.*

Pkg. 5

**138409** Solenoid Cap

**Servicing:** PG260, 10475646, 22506694, 8000180, 9000786, 9000835, 9000836, 9000860, 9000889

**OD** 49.70, **No./terminals** 3,
**Bracket type** Crimp

*HC-CARGO 138217.*

**138898** Solenoid Cap

**Servicing:** 28MT, 10457116, 10479623, 1113277

**OD** 56.85, **No./terminals** 3

*HC-CARGO 132498.*

**139429** Solenoid Cap

**Servicing:** PG100, -150, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054, 10455070

**OD** 49.35, **No./terminals** 3,
**Bracket type** Crimp

*HC-CARGO 132944.*

**232031** Solenoid Cap

**Servicing:** 42MT, 1115624, D918A

**OD** 76.25, **No./terminals** 4

*HC-CARGO 231917.*

**232033** Solenoid Cap

**Servicing:** 42MT, 1115625, D919A

**OD** 76.40, **No./terminals** 4

*HC-CARGO 231920.*



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**232034** Solenoid Cap

**Servicing:** 42MT, 1115597, 1115600, D903A

**OD** 76.65, **No./terminals** 4

*HC-CARGO 139337.*

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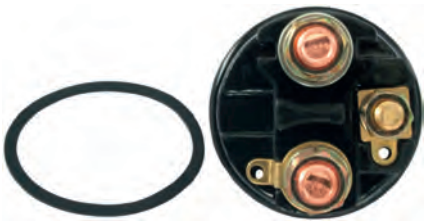

**232052** Solenoid Cap

**Servicing:** PG260S, 10476117, 9000794, 9000817, 9000824

**OD** 49.30, **No./terminals** 3,
**Bracket type** Crimp

*HC-CARGO 231929.*

---

**232203** Solenoid Cap

**Servicing:** 28MT, 10457369, 10461470, 10479626, 10479627, 1113285, 19024204, DRX67095, DRX67131, DRX67149

**OD** 57.00, **No./terminals** 4

*HC-CARGO 231819.*

---

Pkg. 5

**232226** Solenoid Cap

**Replacing:** 10478008

**Servicing:** PG260F1, 1114583, 8000193, 9000819, 9000820, 9000821, 9000822, 9000850, 9000879, 9000884, 9000885, 9000895, 9000899

**OD** 49.95, **No./terminals** 4,
**Bracket type** Crimp

*HC-CARGO 137370.*

---

**234926** Solenoid Cap

**Servicing:** 111534, 17610-Q1010

**OD** 53.35, **No./terminals** 3

---

Pkg. 5

**235403**# Solenoid Cap

**Servicing:** 00E091, 112161, 500340, CER3087

**No./terminals** 3

---

**NEW PRODUCT**
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**330381** Solenoid Cap

**Servicing:** 8000032, 8000048

**OD** 49.69, **No./terminals** 3,
**Bracket type** Crimp

---

## Moving Contacts

Pkg. 5

**132322** Moving Contact

**Servicing:** DR901, DR902

**Shaft measurement** 36.00, **Thickness** 2.45

*Solenoid: HC-CARGO 130963, 131119. Silver plated. Long type.*

**Alternative no.:** B132322

---

**132952** Moving Contact

**Replacing:** 1977264, 1967335, 1954861

**Servicing:** 40MT, 50MT, 10478864, 1113652, 1113683, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960

**OD** 57.00, **Shaft measurement** 56.00, **Thickness** 3.10

*12/24 V.*

---

Pkg. 5

**133146** Moving Contact

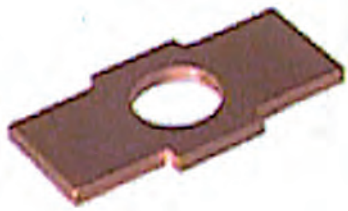
**Servicing:** 3471697, DR725, DR903, DR904

**Length** 32.00, **Shaft measurement** 32.00, **Thickness** 2.40, **Width** 16.00

*Solenoid: HC-CARGO 131272, 131273. Short type.*

---

Pkg. 5



**138410** Contact Plate

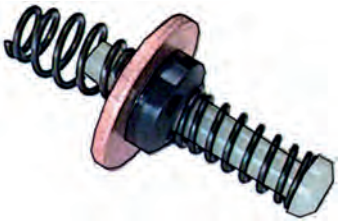
**Servicing:** PG260, 1114583, 8000032, 8000048, 8000129, 8000193, 9000819, 9000821, 9000899, 96289430

**Length** 31.75, **Width** 16.25

*Solenoid: HC-CARGO 138217.*

---

Pkg. 5



**139430**# Moving Contact

**Servicing:** PG200, -250, SD210, -260

**OD** 20.50/0.807",
**Shaft measurement** 26.00/1.024",
**Thickness** 2.00

---

Pkg. 5

**139836** Contact Plate

**Servicing:** 28MT, 8200138, DRX67149

**Thickness** 4.10, **Width** 32.00

Pkg. 5

**232910** Moving Contact

**Replacing:** 1978337

**Servicing:** 5MT, 10MT, 27MT, 10455016, 10455044, 10455045, 10455046, 10455049, 10455052, 10455055, 10455058, 10455069, 10455300

**OD** 31.70/1.2482, **Thickness** 2.50/0.098", **Shaft measurement** 31.50/1.240"

Pkg. 5

**232911** Moving Contact

**Replacing:** 1956226

**Servicing:** 5MT, 8MT,10MT, 20MT, 22MT, 27MT, 1107302, 1107306, 1107307, 1107308, 1107310, 1107311, 1107312, 1107313, 1107314

**Shaft measurement** 41.00, **Thickness** 2.30

Pkg. 5

**233396** Moving Contact

**Replacing:** 1985295

**Servicing:** 37MT, 41MT, 42MT

**OD** 38.20, **Length** 53.70,
**Shaft measurement** 44.00
*Silver plated.*

Pkg. 10

**235404**# Moving Contact

**Servicing:** 00E091, 110397, 112161, 500340, CER3087

**Length** 54.78, **Shaft measurement** 37.50, **Thickness** 2.38, **Width** 28.00

Pkg. 100

**B132322** Moving Contact

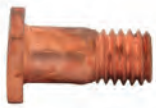
**Replacing:** 132322

**Shaft measurement** 37.43, **Thickness** 2.44

**Alternative no.:** 132322

## Fixed Contacts

Pkg. 10



**133576**# Fixed Contact

**Servicing:** 3471693, 3471696, DR902

**Total length** 20.50,
**Length/rear collar** 18.20,
**Thread length** 8.55, **Thread size** M8

Pkg. 10

**133577** Fixed Contact

**Servicing:** 3471561

**Total length** 28.70,
**Length/rear collar** 23.45,
**Thread length** 14.85, **Thread size** M8

Pkg. 10

**133578** Fixed Contact

**Servicing:** DR901

**Total length** 33.50,
**Length/rear collar** 31.20,
**Thread length** 21.50, **Thread size** M8

## Various

**130521**# Plunger

**Replacing:** 1942250

**Servicing:** 30MT, 35MT, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119, 1113121, 1113124

**Length** 127.40, **Fork** w/o

**130522** Plunger

**Replacing:** 1948522

**Servicing:** 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

**OD** 30.00, **Length** 134.30, **Fork** w/o

**132735** Plunger

**Replacing:** 1953041, 1941113, 1932200, 10470783

**Servicing:** 5MT, 10MT, 20MT, 22MT, 25MT, 27MT, 10455308, 10455309, 10455310, 10455311, 10455322, 10455335, 10455343, 10455344

**OD** 30.35, **Length** 74.00, **Fork** w/
*Long type.*



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#Available while stock last, * Program development.

## 132736 Plunger

**Replacing:** 1987391, 1978297, 10470777, 10470764

**Servicing:** 5MT, 8MT, 10MT, 15MT, 20MT, 22MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016

**OD** 27.85, **Length** 66.10, **Fork** w/
*Short type.*

---

## 133022 Plunger

**Replacing:** 1998139, 1988775, 1988140, 1988139

**Servicing:** 37MT, 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

**OD** 31.60, **Length** 132.25, **Fork** w/o

---

Pkg. 5

## 134429 Boot

**Replacing:** 1988776, 1985243

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810

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## 135462 Plunger

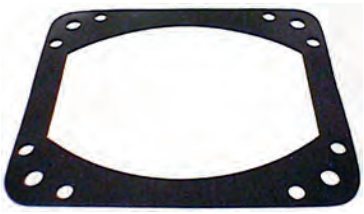
**Replacing:** 1989220, 10495984, 10473793

**Servicing:** PMGR SERIES, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

**OD** 23.85, **Length** 76.00
*w/ spring.*

---

Pkg. 5



## 135643# Gasket

**Replacing:** 1979384, 10496037

**Servicing:** 40MT, 50MT

**ID** 80.00, **OD** 98.55, **Thickness** 1.40, **Material** Rubber

---

Pkg. 5

## 139660 Gasket

**Replacing:** 1952427

**Servicing:** 20MT, 22MT, 25MT, 27MT, 10455301, 10455304, 10455305, 10455306, 10455308, 10455310, 10455312, 10455316, 10455319

**ID/mount. hole** 7.75, **Length** 88.45, **Thickness** 4.00, **Width** 76.55, **Material** Rubber

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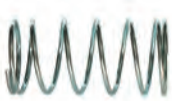

## 232986 Spring

**Replacing:** 1948521

**Servicing:** 30-50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

**OD** 35.70, **Length** 75.35

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## Drives

## 130465 Drive

**Replacing:** DR2003, DR2000, 3471912, 3471490

**Servicing:** 141, 150, 152, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471143, 3471144, 3471150

**ID** 12.00, **OD** 25.80, **OD/housing** 45.35, **Total length** 65.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

---

## 130536 Drive

**Replacing:** C2001, 3874045

**ID** 12.00, **OD** 33.10, **OD/housing** 46.10, **Total length** 75.20, **Splines A** 6, **No./teeth** 10, **Rotation** CR

---

## 130537 Drive

**Replacing:** D2051, D2049, D2020, D2014, D2008, 1974352, 1965923, 1965723, 1965538, 1954843, 1954842, 1946229

**Servicing:** 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455315, 10455335

**ID** 12.00, **OD** 25.20, **OD/housing** 46.15, **Total length** 81.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

---

## 130538 Drive

**Replacing:** D2042, D2025, D2024, 1977355, 1975046, 1971707, 1968355, 1966931, 1964127, 1950058, 1942950

**Servicing:** 30MT, 10455316, 10455326, 10455331, 10455334, 10455337, 10478830, 1107214, 1107234, 1107249, 1107290, 1107291, 1107300

**ID** 14.30, **OD** 39.85, **OD/housing** 60.00, **Total length** 96.15, **Splines A** 3, **No./teeth** 10, **Rotation** CR

---



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CAR GO **Best Choice**

## 130539 Drive

**Replacing:** 830620, 800066, 1976884, 1967779, 1960370, 1955777, 1952083, 1945487, 1935487, 1894211

**Servicing:** 40MT, 42MT, 50MT, 10461024, 10461030, 10461041, 10461043, 10461045, 10461047, 10461048, 10461054, 10461068, 10478800

**ID** 15.90, **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR
*Bronze.*

**Alternative no.:** 130539Z

## 130539Z Drive

**Replacing:** 830620, 800066, 1976884, 1967779, 1960370, 1955777, 1945487, 1935487, 1894211

**ID** 15.90, **OD** 56.50, **OD/housing** 58.25, **Total length** 120.40, **Splines A** 19, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 130539
CAR GO **Best Choice**

## 130540 Drive

**Replacing:** D2107, D2043, D2026, D2017, 1965358, 1951180, 1940138, 1940134, 1934488, 1932890, 1932308, 1877354

**Servicing:** 35MT, 1107251, 1107343, 1107344, 1107510, 1107527, 1107534, 1107538, 1107548, 1107553, 1107567, 1107581, 1107587

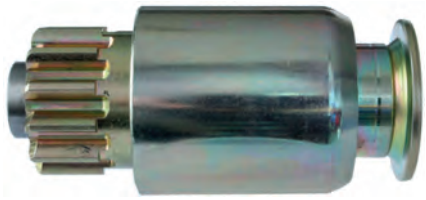
**ID** 14.02, **OD** 46.15, **OD/housing** 60.00, **Total length** 96.00, **Splines A** 3, **No./teeth** 12, **Rotation** CR

## 130542 Drive

**Replacing:** 800077, 1979835, 1977013, 1967952, 1894221

**Servicing:** 30MT, 50MT, 10478862, 1109494, 1109497, 1109632, 1109757, 1109779, 1109792, 1109849, 1990232, 1990240, 1990247, 1993781

**ID** 16.00, **OD** 46.00, **OD/housing** 58.00, **Total length** 169.00, **Splines A** 19, **No./teeth** 12, **Rotation** CR
*Bronze.*

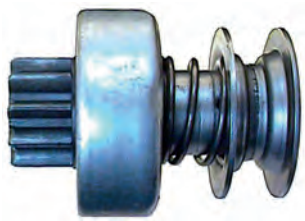


## 131056 Drive

**Replacing:** 852961, 851073, 800068, 1977005, 1970711, 1965514, 1948606, 1946957, 1946945, 1936647, 1894213

**Servicing:** 40MT, 42MT, 50MT, 10461025, 10461031, 10461046, 10461060, 10461061, 10478803, 10478804, 10478860, 10478864, 10478869

**ID** 15.90, **OD** 46.20, **OD/housing** 57.65, **Total length** 120.40, **Splines A** 19, **No./teeth** 12, **Rotation** CR



## 131429 Drive

**Replacing:** D2035, D2027, 1985564, 1975194, 1893445, 1893443

**Servicing:** 25MT, 1109212, 1109213, 1109214, 1109215, 1109216, 1109218, 1109219, 1109495, 1109563, 1113484, 1113589, 1113590

**ID** 14.30, **OD** 32.00, **OD/housing** 60.00, **Total length** 80.80, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 131481 Drive

**Replacing:** 1987211, 1985262

**Servicing:** 37MT, 10461169, 10478805, 10478811, 10478825, 10478826, 10478927, 10478949, 10478960, 10479014, 10479034, 1990310

**ID** 14.35, **OD** 46.35, **OD/housing** 60.00, **Total length** 99.55, **Splines A** 3, **No./teeth** 12, **Rotation** CR

## 131766 Drive

**Replacing:** 1932605, 1932545, 1932526, 1928998, 1921998, 1914341

**Servicing:** 40MT, 1108987, 1109158, 1109169, 1109170, 1109172, 1109178, 1109184, 1109229, 1109230, 1109233, 1109235, 1109236

**ID** 19.00 (3/4"), **OD** 46.30, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 12, **Rotation** CR
*Bronze.*

## 131767 Drive

**Replacing:** 830622, 1946089, 1846089

**Servicing:** 40MT, 50MT, 1113385, 1113408, 1113445, 1113474, 1113533, 1113693, 1114195

**ID** 15.90 (5/8"), **OD** 38.80, **OD/housing** 58.00, **Total length** 120.40, **Splines A** 19, **No./teeth** 10, **Rotation** CR



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#Available while stock last, * Program development.

## 131768 Drive

**Replacing:** D2021, 1985129, 1932031, 1918079

**Servicing:** 40MT, 1108894, 1108895, 1109234, 1109237, 1109248, 1109823, 1109874, 1109891, 1113606, 1113612, 1113619, 1113741

**ID** 19.00 (3/4"), **OD** 56.50, **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 11, **Rotation** CR

## 131769 Drive

**Replacing:** D2036, D2009, D2005, 800026, 1952410, 1947680, 1946220, 1941589, 1935992, 1930802, 1929402, 1921999

**Servicing:** 30MT, 10455304, 10455317, 10455321, 10455324, 10455325, 10455328, 10455332, 10455333, 10455340, 10455341, 10455355

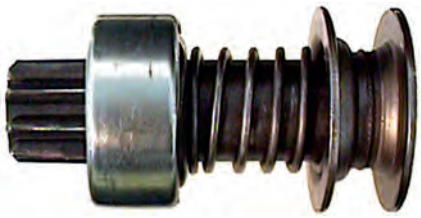
**ID** 14.30, **OD** 29.30, **OD/housing** 60.10, **Total length** 95.20, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 131770 Drive

**Replacing:** 800069, 1977006, 1971167, 1947920, 1894214, 1893562

**Servicing:** 40MT, 10461059, 10478820, 10478985, 1113830, 1113852, 1113871, 1113873, 1113941, 1113988, 1114052, 1114077, 1114094

**ID** 15.90, **OD** 49.20/1.937", **OD/housing** 58.00, **Total length** 120.40/4.740", **Splines A** 19, **No./teeth** 13, **Rotation** CR



## 132694 Drive

**Replacing:** D2029, D2006, D2002, 1974396, 1971979, 1946221, 1931585, 1927200, 1828396

**Servicing:** 8MT, 1107608, 1107621, 1107622, 1107623, 1107626, 1107627, 1107629, 1107631, 1107632, 1107633, 1107634, 1107635

**ID** 12.00, **OD** 25.00, **OD/housing** 46.60, **Total length** 96.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 132695 Drive

**Replacing:** D2052, D2040, D2032, 1984511, 10498407, 10471539

**Servicing:** 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

**ID** 12.00, **OD** 25.00, **OD/housing** 43.35, **Total length** 69.15, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 132699 Drive

**Replacing:** 1951788, 1950001, 1877348

**Servicing:** 10MT, 10455319, 10455336, 10455338, 1107179, 1107386, 1107782, 1109424, 1109426, 1113155, 1998298, 1998299, 1998301

**ID** 14.30, **OD** 36.70/1.444", **OD/housing** 59.80, **Total length** 96.00/3.780", **Splines A** 6, **No./teeth** 9, **Rotation** ACR

## 132731 Drive

**Replacing:** 830621, 800067, 1977004, 1970527, 1945879, 1894212

**Servicing:** 40MT, 42MT, 50MT, 10478836, 10478851, 10478854, 10478857, 10478872, 10478874, 10478875, 10478892, 10478978, 10478979

**ID** 15.75, **OD** 56.30, **OD/housing** 58.00, **Total length** 120.70, **Splines A** 19, **No./teeth** 11, **Rotation** ACR
*Bronze.*

## 132732 Drive

**Replacing:** 1932604

**Servicing:** 40MT, 50MT, 1109179, 1109185

**ID** 19.00, **OD** 46.20/1.819", **OD/housing** 46.00, **Total length** 118.00/4.646", **Splines A** 19, **No./teeth** 12, **Rotation** ACR
*Bronze.*

## 132943 Drive

**Replacing:** D2048, 10498527, 10469173

**Servicing:** PMGR SERIES, 9000719, 9000735, 9000762, 9000763, 9000768, 9000773, 9000775, 9000776, 9000789, 9000796, 9000797

**ID** 12.00, **OD** 25.20, **OD/housing** 43.25, **Total length** 68.10, **Splines A** 6, **No./teeth** 9, **Rotation** CR



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## 133507 Drive

**Replacing:** 1987152, 1986244

**Servicing:** 37MT, 10478806, 10478814, 10478819, 10478890, 10478921, 10478928, 10478929, 10478930, 10478953, 10478957, 10478962

**ID** 14.35, **OD** 39.50/1.555", **OD/housing** 60.00, **Total length** 99.00/3.898", **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 133545 Drive

**Replacing:** D2037, 1971706, 1970376, 1968131, 1947912, 1877345, 10497522, 10479522

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455322, 10455329, 10455500, 1107573, 1107577, 1107586, 1107588, 1107589, 1107599

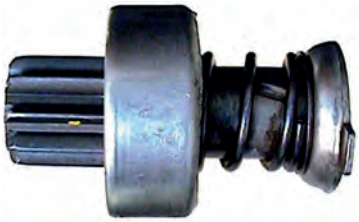
**ID** 14.24, **OD** 31.50, **OD/housing** 59.75, **Total length** 96.95, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 133854 Drive

**Replacing:** D2053, 10457167, 10457056, 10456455

**Servicing:** 28MT, 10465054, 10479604, 10479614, 10479615, 10479617, 10479618, 10479621, 10479628, 10479634, 1113267, 1113269

**ID** 14.00, **OD** 32.00, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR
*w/ rubber seal.*



## 133864 Drive

**Replacing:** A2000, 1938065, 1916775, 1838065

**ID** 12.00, **OD** 25.80, **OD/housing** 46.20, **Total length** 77.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 133975 Drive

**Replacing:** D2054, 10457579, 10457057

**Servicing:** 28MT, 10479607, 1113274, 1113275, 1113278, 1113281, 1113282, 1113284, 1113285, 1113288, 1113289, 1113290, 1113297

**ID** 14.00, **OD** 40.00, **OD/housing** 60.00, **Total length** 85.00, **Splines A** 12, **No./teeth** 10, **Rotation** CR
*w/ rubber seal.*

## 133976 Drive

**Replacing:** D2055, 10457168, 10457058

**Servicing:** 28MT, 10479606, 10479613, 1113273, 1113279, 1113280

**ID** 14.00, **OD** 46.30, **OD/housing** 60.00, **Total length** 85.35, **Splines A** 12, **No./teeth** 12, **Rotation** CR
*w/ rubber seal.*

## 134837 Drive

**Replacing:** 10457279, 10457059

**Servicing:** 28MT, 10479620, 10479648, 1113286

**ID** 14.00, **OD** 34.00/1.339", **OD/housing** 60.00, **Total length** 85.85, **Splines A** 12, **No./teeth** 9, **Rotation** CR
*w/ rubber seal.*

## 135063 Drive

**Replacing:** D2057, D2050, 10477566, 10473700, 10468675

**Servicing:** SD210, SD260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

**ID** 12.00, **OD** 25.30, **OD/housing** 43.85, **Total length** 68.75, **Splines A** 3, **No./teeth** 9, **Rotation** CR

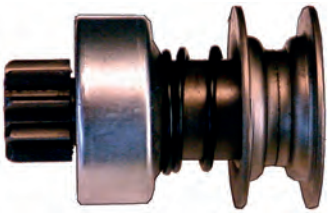
**Alternative no.:** 135063Z

## 135816 Drive

**Replacing:** D2047, 1989214

**Servicing:** PG260, 9000719

**ID** 12.00, **OD** 25.20, **OD/housing** 43.40, **Total length** 68.25/2.677", **Splines A** 3, **No./teeth** 9, **Rotation** CR

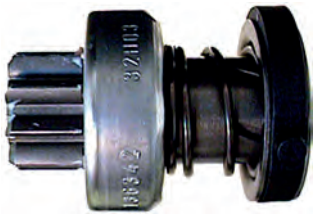


## 136318 Drive

**Replacing:** D2028, 1974355, 1932188

**Servicing:** 10MT, 1107208, 1107223, 1107270, 1107272, 1107279, 1107297, 1107354, 1107389, 1107397, 1107398, 1107641, 1107652

**ID** 12.00, **OD** 25.40, **OD/housing** 46.40, **Total length** 75.50, **Splines A** 3, **No./teeth** 9, **Rotation** CR



## 136342 Drive

**Replacing:** 10497257, 10472809

**Servicing:** PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000700, 9000751, 9000758, 9000772, 9000785, 9000791

**ID** 12.00, **OD** 25.25, **OD/housing** 43.50, **Total length** 63.40, **Splines A** 6, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

## 137733 Drive

**Replacing:** 186798

**ID** 12.00, **OD** 27.75, **OD/housing** 46.35, **Total length** 51.70, **Splines A** 10, **No./teeth** 10, **Rotation** CR

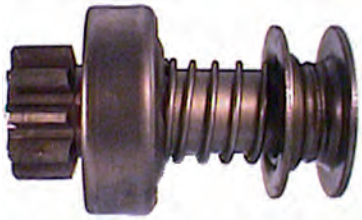
## 137760 Drive

**Replacing:** 10457121

**Servicing:** 28MT, 10479611, 10479616, 10479623, 1113272, 1113277, 1113291

**ID** 14.00, **OD** 32.00/1.260", **OD/housing** 60.00, **Total length** 85.45/3.386", **Splines A** 12, **No./teeth** 10, **Rotation** CR

*w/ rubber seal.*

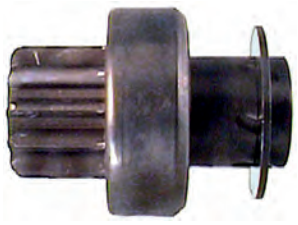


## 138128 Drive

**Replacing:** 800965, 1948877, 1947542, 1933838, 1877350, 10499852

**Servicing:** 10MT, 10455320, 10455323, 10455339, 1107341, 1107390, 1107532, 1107544, 1107779, 1107873, 1108336, 1108475, 1108659

**ID** 14.30, **OD** 40.00, **OD/housing** 60.00, **Total length** 96.25, **Splines A** 3, **No./teeth** 10, **Rotation** ACR



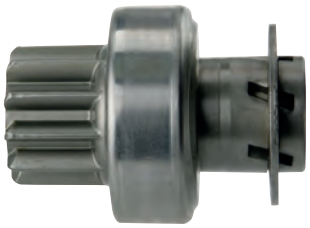
## 138216 Drive

**Replacing:** 10475616

**Servicing:** PG260, 10465293, 8000193, 8000321, 9000786, 9000798, 9000806, 9000819, 9000820, 9000821, 9000822, 9000834, 9000835

**ID** 12.00, **OD** 29.70, **OD/housing** 46.30, **Total length** 61.55, **Splines A** 6, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 138216Z

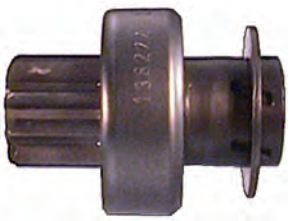


## 138216Z Drive

**Replacing:** 10475616

**ID** 12.00, **OD** 29.70, **OD/housing** 45.90, **Total length** 61.75, **Splines A** 6, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 138216

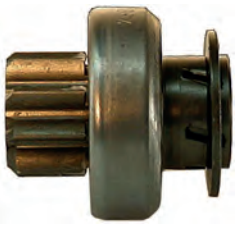


## 138222 Drive

**Replacing:** 10476642

**Servicing:** PG260, 9000805, 9000812

**ID** 12.00, **OD** 25.15, **OD/housing** 46.15, **Total length** 61.70, **Splines A** 6, **No./teeth** 9, **Rotation** CR



## 230073 Drive

**Replacing:** 10475974

**Servicing:** PG105S, 09000794, 09000801, 10455506, 21020761, 9000795, 9000817, 9000824, 9000833, 9000837, 9000839, 9000840, 9000847

**ID** 12.00, **OD** 25.25/1.016", **OD/housing** 43.25, **Total length** 45.25/1.772", **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 230911 Drive

**Replacing:** 10472565

**Servicing:** 41MT, 10478812, 10478815, 10478817, 10478818, 10478925, 10478926, 10478961, 10478999, 10479013, 10479060, 10479061

**ID** 15.90, **OD** 46.30/1.823", **OD/housing** 58.00, **Total length** 102.00/4.016", **Splines A** 19, **No./teeth** 12, **Rotation** CR

*Bronze.*

**Alternative no.:** 230911Z

## 230911Z Drive

**Replacing:** 10472565

**ID** 15.90, **OD** 46.10, **OD/housing** 58.10, **Total length** 102.15, **Splines A** 19, **No./teeth** 12, **Drive type** Bronze, **Rotation** CR

**Alternative no.:** 230911

## 231789 Drive

**Servicing:** 10455503, 111089, 112847, 113136, 8000174, 800264, 96275481, 96289430, 96569440

**ID** 12.00, **OD** 28.35, **OD/housing** 43.15, **Total length** 45.30, **Splines A** 6, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 231789Z

## 231789Z Drive

**ID** 12.00, **OD** 28.10, **OD/housing** 43.20, **Total length** 45.65, **Splines A** 6, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 231789

## 231965 Drive

**Replacing:** 10457122

**Servicing:** 28MT, 10479605, 10479608, 10479612

**ID** 14.00, **OD** 40.00/1.575", **OD/housing** 60.00, **Total length** 86.00/3.386", **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 231966 Drive

**Replacing:** 10492409

**Servicing:** PG260F2, 22506694, 9000836, 9000841, 9000842, 9000854, 9000857, 9000858, 9000871, 9000872, 9000879, 9000880, 9000882

**ID** 12.00, **OD** 29.55, **OD/housing** 46.00, **Total length** 47.50/1.850", **Splines A** 6, **No./teeth** 11, **Rotation** CR

## 231967 Drive

**Replacing:** D2059, 10487934, 10487536

**Servicing:** SD205, -255, 10455064, 10455065, 10455066, 10455067, 10455069, 10455072, 10455073, 10455074, 10455080, 10455081

**ID** 12.00, **OD** 25.00, **OD/housing** 43.35, **Total length** 73.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR

## 231968 Drive

**Replacing:** 10476528

**Servicing:** 41MT, 10478897, 10478898, 10479023, 10479024, 10479043, 10479165

**ID** 16.00, **OD** 56.25, **Total length** 102.25, **Splines A** 19, **No./teeth** 11, **Rotation** CR
*Bronze.*

## 231970 Drive

**Replacing:** 800074, 1977011, 1971277, 1953151, 1894219, 1894218, 1893561

**Servicing:** 40MT, 42MT, 1113177, 1113477, 1113881, 1113888, 1113936, 1113961, 1113963, 1114123, 1114155, 1114177, 1114716, 1114721

**ID** 15.90 (5/8"), **OD** 46.00/1.831", **Total length** 120.50/4.724", **Splines A** 19, **No./teeth** 12, **Rotation** ACR

## 232053 Drive

**Servicing:** 30MT

**ID** 14.30, **OD** 39.80, **OD/housing** 60.00, **Total length** 96.30, **Splines A** 3, **No./teeth** 10, **Rotation** CR

## 233173 Drive

**Replacing:** 1974655, 1974641, 1943600, 1937554

**Servicing:** 10MT, SD300, 10455602, 1107250, 1107271, 1107285, 1107333, 1107610, 1107611, 1107672, 1107723, 1107742, 1107763

**ID** 12.00, **OD** 25.35/1.016", **OD/housing** 46.40, **Total length** 93.85/3.660", **Splines A** 3, **No./teeth** 9, **Rotation** ACR

## 233387 Drive

**Replacing:** 10457362

**Servicing:** 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

**ID** 14.00, **OD** 35.50, **OD/housing** 60.00, **Total length** 85.50, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 233532 Drive

**Replacing:** 1954963, 1949429

**Servicing:** 10MT, 10455318, 1107209, 1107218, 1107334, 1108289, 1108505, 1109098, 1998274

**ID** 14.40, **OD** 30.00, **OD/housing** 60.00, **Total length** 97.00, **Splines A** 3, **No./teeth** 9, **Rotation** CR
*10 holes.*

## 235050 Drive

**Servicing:** 110566, 111534, 17610-Q1010

**ID** 11.91, **OD** 35.62, **OD/housing** 48.82, **Total length** 48.50, **Splines B** 6, **No./teeth** 9

## 235146 Drive

**Servicing:** 00E091, 112161, 500340, CER3087

**ID** 12.00, **OD** 45.75, **OD/housing** 48.65, **Total length** 50.60, **Splines A** 6, **No./teeth** 13, **Rotation** CR

## 235193 Drive

**ID** 11.00, **OD** 29.60, **OD/housing** 43.65, **Total length** 53.75, **Splines A** 5, **No./teeth** 11, **Rotation** CR

## 238626 Drive

**Servicing:** 12564089, 8000048, 8000180, 8000387, 9000856, 9000902, 9000934, 9000967, 96430345, 96450663, 96550792

**ID** 12.00, **OD** 25.00, **OD/housing** 46.45, **Total length** 47.25, **Splines A** 6, **No./teeth** 9, **Rotation** CR



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#Available while stock last, * Program development.

**330382** Drive

**Servicing:** 8000032

**ID** 12.05, **OD** 36.00, **OD/housing** 47.00, **Total length** 61.40, **Splines A** 12, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** F032330382

**333444** Drive

**Servicing:** 10455513, 10455516, 8000153

**ID** 12.00, **OD** 32.00, **OD/housing** 43.30, **Total length** 65.00, **Splines A** 12, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

**333745** Drive

**Replacing:** 8000300

**Servicing:** 8000169, 8000340

**ID** 12.00, **OD** 28.00, **OD/housing** 46.00, **Total length** 48.40, **Splines A** 6, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**333938** Drive

**Replacing:** 89017523, 10521484, 10501804, 10452348

**ID** 12.00, **OD** 25.40, **OD/housing** 46.00, **Total length** 47.40, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**333939** Drive

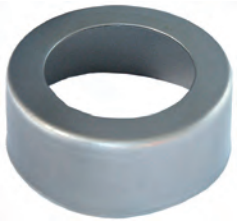
**Replacing:** 10500475

**ID** 12.00, **OD** 28.80, **OD/housing** 45.90, **Total length** 47.00, **Splines A** 6, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## Drive Parts

### Caps

Pkg. 20



**134252** Dp Cap

**ID** 41.66, **OD** 43.00

### Gears

Pkg. 10

**134235** Dp Gear

**ID** 12.00, **OD** 25.20, **Height** 26.90, **No./teeth** 9

### Rollers

Pkg. 1000

**134240** Dp Rollers

**OD** 7.50, **Length** 12.75

Pkg. 500

**134242** Dp Rollers

**OD** 4.50, **Length** 7.45

Pkg. 10

**231879** Dp Rollers

**OD** 5.20, **Length** 8.90

Pkg. 100

**332667** Roller

**Servicing:** 8000396

**OD** 5.35, **Length** 11.10

### Springs

Pkg. 100

**139835** Dp Springs

**Length** 21.35

### Pinion

**235678** Pinion

**Replacing:** 10511838, 10511406

**Servicing:** 10461757, 10461758, 10461759, 10461760, 19011510, 19011511, 19011512, 19011515, 19011517, 19011524, 19011526, 8200027

**ID** 16.60, **OD** 45.91, **Height** 26.00, **No./splines** 23, **No./teeth** 12



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## Planet Gears

**238614** Planet Gear
**Servicing:** 12564089, 8000048, 8000180, 8000387, 9000856, 9000902, 9000934, 9000967, 96550792
**Total length** 111.20, **No./splines** 12

## Gear Parts

### Gear Shafts

**230559** Gear Shaft
**Replacing:** 10457032
**Servicing:** 28MT, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479612, 10479613, 10479614, 10479615, 10479616
**OD/shaft** 13.90,
**Total length** 172.00/6.772", **No./splines** 12

**232990** Gear Shaft
**Replacing:** 10475626
**Servicing:** PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000820, 9000822, 9000827, 9000834, 9000835, 9000844
**OD/shaft** 22.20,
**Total length** 165.00/6.50", **No./splines** 12

**233757** Gear Shaft
**Replacing:** 10457357
**Servicing:** 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149
**Total length** 176.00/6.693", **No./splines** 12

**235738** Gear Shaft
**Replacing:** 10511722
**Servicing:** 19011512, 19011514, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011530, 19011531, 19026027
**OD/shaft** 12.96, **Total length** 133.20, **No./splines** 12

### Outer Gear

**135465** Outer Gear
**Servicing:** PG100
**ID** 46.73, **OD** 69.00, **Height** 27.35, **No./teeth** 64

Pkg. 5

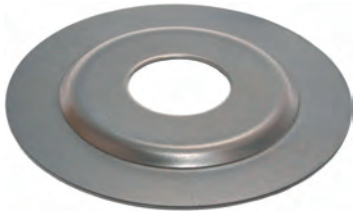
**138213** Outer Gear
**Replacing:** 10475632
**Servicing:** PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834
**ID** 46.25, **OD** 66.57, **Height** 34.84, **No./teeth** 48

Pkg. 5

**232360** Outer Gear
**Replacing:** 10450720
**Servicing:** PG260F2, 22506694, 8000396, 9000836, 9000884
**ID** 49.60, **OD** 61.45, **Height** 29.50, **No./teeth** 43

**235737** Outer Gear
**Servicing:** 19011512, 19011514, 19011515, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011530, 19011531
**ID** 76.74, **OD** 94.14, **Height** 35.89, **No./teeth** 48
*Needle bearing: HC-CARGO 141269.*

### Gear Covers



**230394** Gear Cover
**Replacing:** 10476004
**Servicing:** PG260F1, 09000794, 09000801, 10455506, 9000817, 9000824
**ID** 20.00, **OD** 68.90, **Height** 1.00

Pkg. 5

**235739#** Gear Cover
**Servicing:** 19011512, 19011514, 19011515, 19011516, 19011517, 19011518, 19011521, 19011522, 19011523, 19011524, 19011531, 8200037
**ID** 35.45, **OD** 108.87

### Gear Wheels

Pkg. 3

**232926** Gear Wheel
**Replacing:** 10475979
**Servicing:** PG260F1, 09000794, 09000801, 10455506, 9000817, 9000824
**ID** 6.00, **OD** 18.60, **Height** 10.40, **No./teeth** 17



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Pkg. 3

## 232989 Gear Wheel

**Replacing:** 10475578

**Servicing:** PG260M, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000820, 9000822, 9000827, 9000834, 9000835, 9000844

**ID** 6.00, **OD** 19.35, **Height** 11.00, **No./teeth** 18

*Bushing: HC-CARGO 140939.*

Pkg. 3

## 233016 Gear Wheel

**Servicing:** PG260F2, 22506694, 8000396, 9000836, 9000841, 9000854, 9000857, 9000858, 9000884

**ID** 6.00, **OD** 20.55, **Height** 11.45, **No./teeth** 16

*Bushing: HC-CARGO 140939.*

Pkg. 10

## 235687 Gear Wheel

**Replacing:** 10511731

**Servicing:** 38MT, 39MT

**ID** 9.10, **OD** 24.00, **Height** 13.00, **No./teeth** 14

## Levers

## 130530 Lever

**Replacing:** 1945484

**Servicing:** 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807, 10478808

**Dist.** 37.00, **ID** 13.00, **Length** 124.70

*Pin kit: HC-CARGO 230362.*

## 130844 Lever Kit

**Replacing:** DR1901

**Servicing:** 3471141, 3471143, 3471144, 3471150

**Dist.** 35.30, **ID** 6.30, **Length** 83.40

## 131353 Lever

**Replacing:** 1988097

**Servicing:** 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

**Dist.** 36.60, **ID** 12.90, **Length** 121.35

*Pin kit: HC-CARGO 230362.*

## 131358 Lever

**Replacing:** 1985237

**Servicing:** 37MT, 10461169, 10478805, 10478806, 10478811, 10478814, 10478819, 10478825, 10478826, 10478890, 10478897, 10478953

**Dist.** 42.70, **ID** 12.60, **Length** 121.60

*Pin kit: HC-CARGO 230362.*

## 131408 Lever

**Replacing:** D4908, 1951567, 1932205

**Servicing:** 25MT, 10455304, 10455306, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315, 10455316, 10455317, 10455318

**Dist.** 38.75, **ID** 8.15, **Length** 103.90

## 132678 Lever

**Replacing:** 801433

**Servicing:** 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455343, 10455603, 10455604, 10496873, 10496874, 1107242

**Dist.** 38.30, **ID** 8.25, **Length** 103.30

## 132681 Lever

**Replacing:** 1984501

**Servicing:** 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

**Dist.** 36.65, **ID** 7.95, **Length** 96.50

*Short type.*

Pkg. 10

## 133182 Lever

**Servicing:** 141, 150, 152, 153, 162, 164, 165, 168, 172, 176, 3471141, 3471143, 3471144, 3471150, 3471152, 3471153, 3471154

**Dist.** 36.00, **ID** 6.20, **Length** 83.15

*As HC-CARGO 130844. w/o bolt. Bolt: HC-CARGO 134909.*

## 134839 Lever

**Replacing:** 10456464

**Servicing:** 28MT, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613, 10479614

**Dist.** 36.65, **ID** 6.00, **Length** 102.35



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#Available while stock last, * Program development.

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## 135204 Lever

**Replacing:** 10473701

**Servicing:** SD210, SD260, 10455010, 10455011, 10455012, 10455013, 10455025, 10455026, 10455042, 10455047, 10455048, 10455050

**Dist.** 42.45, **Length** 95.30

## 138214 Lever

**Replacing:** 10476604

**Servicing:** PG260, 8000032, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822

**Dist.** 26.20, **Length** 78.65

*Support: HC-CARGO 138215.*

## 232826 Lever

**Servicing:** PG260F2, 22506694, 8000129, 9000836, 9000873, 9000879, 9000881, 9000884, 9000885, 9000889, 9000895, 96450663, 96843574

**Dist.** 26.80, **Length** 80.45

*Plug: HC-CARGO 232996. Pivot pad: HC-CARGO 610222.*

## 233756 Lever

**Replacing:** 10457361

**Servicing:** 28MT, 10461470, 10479626, 10479627, 19024204, DRX67095, DRX67131, DRX67149

**Dist.** 57.10, **ID** 50.45, **Length** 114.25

Pkg. 5

## 235040 Lever

**Servicing:** 10455503, 96275481

**Dist.** 24.00, **Length** 81.60

## 235734 Lever

**Replacing:** 10511817

**Dist.** 35.00, **ID** 8.30, **Length** 110.00

## Lever Parts

### Various

Pkg. 10

## 134777 Spacer for Lever

**Servicing:** 141, 150, 155, 163, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471144, 3471150, 3471155, 3471163, 3471168, 3471169

**ID** 3.90, **OD** 8.00, **Height** 12.00

*Lever: HC-CARGO 130844, 133182.*

## 138215 Lever Support

**Replacing:** 10475639

**Servicing:** PG260, 8000032, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822

**ID** 7.40, **Length** 29.85

*Lever: HC-CARGO 138214.*

Pkg. 10

## 230010 Lever Pin

**Replacing:** 1987079, 1987049, 1980864, 1894321

**Servicing:** 10MT, 15MT/GR, 20MT, 22MT, 25MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016

**ID** 2.90, **OD** 5.00, **Length** 25.70

Pkg. 10

## 230108 Lever Pin

**Replacing:** 1945804

**Servicing:** 10MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

**OD** 7.85, **Length** 40.80

## 230362 Lever Pin Kit

**Replacing:** 9415235

**Servicing:** 30MT, 35MT, 10478864, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275, 1109276, 1109277, 1109278, 1109279, 1109280

**OD** 12.70, **Length** 58.00

Pkg. 5

## 230513 Lever Stud

**Replacing:** 1948529, 1945472

**Servicing:** 37MT, 40MT, 41MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047

**OD** 12.65, **Length** 58.45



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#Available while stock last, * Program development.

Pkg. 5

## 232827 Lever Stud

**Replacing:** 1932197

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, SD300, 10455304, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315, 10455316

**OD** 7.80, **Length** 51.70

Pkg. 10

## 233692# Screw

**Servicing:** 28MT

**Thread** M6, **Total length** 55.80, **Thread length** 15.00

Pkg. 10

## 235735 Lever Support

**Replacing:** 10512004

**ID** 8.28, **Length** 37.67

# Clutches

## 234719 Clutch

**Servicing:** 10455703, 10455709

**Total length** 56.50

## 235715 Clutch

**OD** 73.19, **Total length** 144.15, **No./splines** 23

## 236079 Clutch

**OD** 70.00, **Total length** 144.00, **No./splines** 10, **Rotation** CR

## 236110 Clutch

**Replacing:** 10511410

**Servicing:** 10461334, 10461753, 10461777, 19011506, 19011507, 19011508, 19011509, 19011510, 19011511, 19011512, 19011513, 19011514

**OD** 94.00, **Total length** 183.70, **No./splines** 12, **Rotation** CR

# Brush Gears

## 130520 Brush Gear

**Replacing:** 1948515, 1945517

**Servicing:** 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1113818, 1113820, 1113824

12/24 **V**, **OD** 107.00

*Brush set: HC-CARGO RX698, RX708.*

## 130523 Brush Gear

**Replacing:** 1967354, 1945849

**Servicing:** 50MT, 10478827, 10478828, 10478829, 10478919, 1109220, 1109221, 1109222, 1109224, 1109274, 1109275, 1109276, 1109277

**OD** 117.90

*Brush set: HC-CARGO RX9212.*

## 131346 Brush Gear

**Replacing:** 1979494, 1979387

**Servicing:** 40MT 400/450, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1114802, 1114805, 1114807

**OD** 106.45

*Brush set: HC-CARGO RX122H4, RX1224.*

## 131352 Brush Gear

**Replacing:** 1988439, 1988122, 1988121

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478809, 10478810, 10478820, 10478824

**OD** 127.20

*Brush set: HC-CARGO RX1344, RX134h4. Insulated.*

## 131362 Brush Gear

**Replacing:** 1988323, 1987172, 1985323, 1985303

**Servicing:** 37MT, 1990308, 1990309, 1990310, 1990311, 1990312, 1990313, 1990315, 1990316, 1990317, 1990318, 1990319, 1990320

12/24 **V**, **OD** 126.75

*Brush set: HC-CARGO RX1354, RX135H4.*

## 131482 Brush Gear

**Replacing:** 1985065, 1984974, 1981974

**Servicing:** 50MT 400, 10478807, 10478808, 10478813, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478851

**OD** 117.20

*Brush set: HC-CARGO RX124H6.*

## 134675 Brush Gear

**Replacing:** 3471783

**Servicing:** 150, 155, 162, 163, 165, 168, 169, 172, 173, 174, 176, 177, 3471150, 3471154, 3471155, 3471162, 3471163, 3471165

**OD** 76.00

*Brush set: HC-CARGO 140813, 140814, 140815.*

## 134842 Brush Gear

**Replacing:** 10456456

**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

**OD** 77.30

*Brush set: HC-CARGO 140600, 140732. Brush spring: HC-CARGO 134843.*

## 135720 Brush Gear

**Replacing:** 10470140, 10469238, 10468706, 10468705

**Servicing:** 37MT, 41MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478925

**OD** 127.00

*Brush set: HC-CARGO RX1354, RX135H4.*

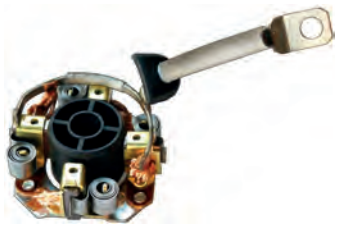
## 230391 Brush Gear

**Replacing:** 10476006

**Servicing:** PG150, PG150S, PG260F1, 09000794, 09000801, 9000795, 9000817, 9000824, 96450663

12 **V**, **OD** 66.00

*Brush set: HC-CARGO 141045. Brush spring: HC-CARGO 230390.*

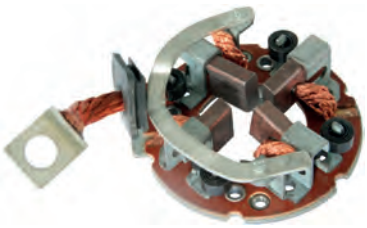


## 230396 Brush Gear

**Replacing:** 10475602

**Servicing:** PG260M, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000804, 9000805, 9000806, 9000812, 9000819, 9000820

12 **V**, **OD** 57.75



## 230682 Brush Gear

**Replacing:** 10497269, 10467164

**Servicing:** PG100, 09000756, 9000700, 9000751, 9000802, X16478

12 **V**, **OD** 65.90

*Brush set: HC-CARGO 140755.*

## 232671 Brush Gear

**Replacing:** 10493851

**Servicing:** PG260F2

12 **V**, **OD** 67.90

## 232968 Brush Gear

**Replacing:** 10472352

**Servicing:** PG150, PG260F1, 21020761, 21020893, 21021366, 9000772, 9000785, 9000791, 9000833, 9000839, 9000840, 9000847, 9000859

12 **V**, **OD** 66.00

## 232984 Brush Gear

**Replacing:** 10493840

**Servicing:** PG260F2, 22506694, 24605594, 9000836

12 **V**, **OD** 68.30

## 234768 Brush Box

**Replacing:** 10453919

**Servicing:** PG260L, -M, 10465578, 12564108, 12570823, 3231471, 9000879, 9000885, 9000889, 9000895

12 **V**, **OD** 68.75

*Neg. brushes. Positive Brush: HC-CARGO 141242.*

## 235390 Brush Gear

12 **V**, **OD** 64.00



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**235500** Brush Gear

**Replacing:** 10470208, 10468892, 10468891

**Servicing:** 10461082, 10461110, 10461169, 10461170, 10461171, 10461181, 10461182, 10461209, 10461210, 10461227, 10461282, 10461333

12/24 **V**, **OD** 127.10

*Brush set: HC-CARGO RX1354 (12 V), RX135H4 (24 V), 140600, 140732. Insulated.*

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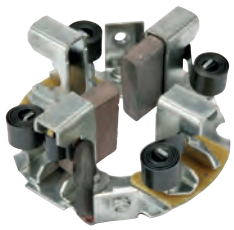

**237851** Brush Gear

**Servicing:** 39MT, 19011501, 19024196

24 **V**, **OD** 83.08

*Brush set: HC-CARGO 142006.*

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**239582** Brush Gear

**Servicing:** 113136, 8000174, 96467385

12 **V**

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**333422** Brush gear

**Replacing:** 10475107

**Servicing:** 10455506, 800264, 96275481, 96289430

**OD** 68.00

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## Brush Gear Parts

### Brush Holders

**131406** Brush Holder Kit

**Servicing:** 8MT, 10MT, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455340, 10455355

Pkg. 5

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**132113** Brush Gear

**Replacing:** 800091, 1988414, 1955046, 1950946, 1950546, 1946414, 1938587, 1926618

**Servicing:** 30MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314

**OD** 16.15

Pkg. 5

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**132114** Brush Gear

**Replacing:** 1893293

**Servicing:** 5MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

**OD** 16.20

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**132730** Brush Holder Kit

**Replacing:** 1893929

**Servicing:** 5MT, 10455006, 10455016, 10455017, 10455019, 10455024, 10465018, 1109526, 1109530, 1109534, 1109564, 1998427, 1998514

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**132876** Brush Holder Kit

**Servicing:** 30MT, 35MT, 1107557, 1109563, 1113589, 1113594, 1113598, 1998337, 1998339, 1998347, 1998455

*Grounded.*

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**136924** Brush Gear

**Replacing:** 1952135

**Servicing:** 30MT, 35MT, 1107547, 1107555, 1107572, 1113130, 1113131, 1113133, 1113135, 1113148, 1113156, 1113162, 1113163, 1113190

*Insulated.*

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### Brush Springs

Pkg. 10

**132115**# Brush Spring

**Servicing:** 5MT

**Length** 26.15

Pkg. 10

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**132116** Brush Spring

**Replacing:** 1986019

**Servicing:** 25MT, 27MT, 10455500, 1109216, 1109219, 1109251, 1109252, 1109253, 1109255, 1109256, 1109257, 1109258, 1109259, 1109260

**Length** 35.20

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Pkg. 10

**132131** Brush Spring

**Replacing:** D3984, 1979994, 1945620

**Servicing:** 30MT, 1107515, 1107547, 1108427, 1108513, 1109217, 1113059, 1113089, 1113090, 1113100, 1113101, 1113105, 1113111

**Length** 38.63

Pkg. 10

**133197** Brush Spring

**OD** 10.00, **Length** 18.60

**134843** Brush Spring set(4)

**Replacing:** 10456460

**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

**OD** 14.40, **Length** 26.40

Pkg. 4

**136926#** Brush Spring

**Replacing:** 1861785

**Servicing:** 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478827, 10478829

**OD** 11.20, **Length** 8.65

Pkg. 4

**136927** Brush Spring

**Replacing:** 1979391

**Servicing:** 40MT, 50MT, 10478813, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478851, 10478852

**OD** 11.00

Pkg. 4

**136928** Brush Spring

**Replacing:** 1985314

**Servicing:** 37MT, 41MT, 42MT, 10461169, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810, 10478811

**OD** 19.50, **Length** 36.15

Pkg. 4

**136929#** Brush Spring

**Replacing:** 10498543

**Servicing:** PG200, -250, SD210, -260, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054

**OD** 14.10, **Length** 23.75

Pkg. 4

**136946** Brush Spring

**Replacing:** 3472200

**OD** 10.25, **Length** 16.20

Pkg. 10

**230390** Brush Spring

**Servicing:** PG150, PG150S, PG260F

**OD** 8.50, **Length** 15.80

Pkg. 10

**230517** Brush Spring

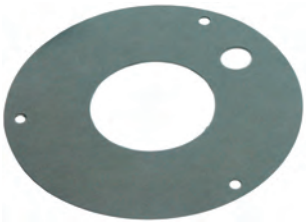
**Replacing:** D4954, D4951, 1940475, 1926622, 10498866

**Servicing:** 10MT, 10455300, 10455304, 10455330, 10455331, 10455332, 10455333, 10455334, 10455335, 10455336, 10455337, 10455338

**OD** 29.20, **Length** 34.95

## Various

Pkg. 10



**233001** Insulator

**Replacing:** 1964516

**Servicing:** 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844, 10478845

Pkg. 10

**233428** Screw

**Replacing:** 1968998, 1847807, 1846955

**Servicing:** 20SI, 37MT, 40MT, 42MT, 1009812, 10459002, 10459003, 10459004, 10459005, 10459006, 10459007, 10459008, 10459009

**Thread** 1/2", **Total length** 15.60, **Thread length** 12.20



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#Available while stock last, * Program development.

## Brush Sets

### 140600 Brush Set

**Replacing:** 10456458, 10456457

**Servicing:** 28MT, 10465054, 10479604, 10479606, 10479607, 10479613, 10479614, 10479615, 10479617, 10479618, 10479619, 10479620

12 **V**, **Length** 19.60, **Lead length** 37.00, **Lead length 2** 51.00, **Height** 25.00, **Thickness** 8.00

### 140732 Brush Set

**Replacing:** 10457120, 10457119

**Servicing:** 28MT, 10461470, 10479600, 10479605, 10479608, 10479611, 10479612, 10479616, 10479623, 10479626, 10479627, 1113271

24 **V**, **Length** 20.00, **Lead length** 49.00, **Lead length 2** 37.00, **Height** 25.00, **Thickness** 8.00

### 140737 Brush Set

**Servicing:** SD210, SD260, 10455010, 10455011, 10455013, 10455025, 10455042, 10455048, 10455050, 10455053, 10455054, 10455070

12 **V**, **Length** 15.00, **Lead length** 128.50, **Lead length 2** 28.50, **Height** 15.00, **Thickness** 6.60

### 140755 Brush Set

**Replacing:** 1852898, 140755

**Servicing:** PG100, 21020892, 21021648, 9000700, 9000751, 9000756, 9000758, 9000802, X16478

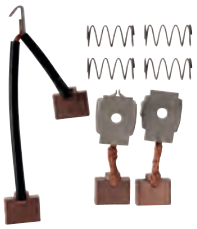
12 **V**, **Length** 14.00, **Lead length** 35.50, **Height** 15.00, **Thickness** 5.50

### 140811 Brush Set

**Replacing:** DR751, 3471506

**Servicing:** 1107203, 1108421, 3471143

12 **V**, **Length** 14.00, **Lead length** 44.00, **Lead length 2** 45.00, **Height** 16.00, **Thickness** 6.00



### 140812 Brush Set

**Replacing:** DR700, 3471505

**Servicing:** 141, 152, 3471141, 3471143, 3471144, 3471152

12 **V**, **Length** 14.00, **Lead length** 86.00, **Lead length 2** 46.00/28.00, **Height** 16.00, **Thickness** 6.00

### 140813 Brush Set

**Replacing:** 3471625

**Servicing:** 150, 168, 172, 3471150, 3471168, 3471172, 3471393

12 **V**, **Length** 14.00, **Lead length** 43.00, **Lead length 2** 36.50, **Height** 16.00, **Thickness** 6.00

### 140814 Brush Set

**Replacing:** 3471764

**Servicing:** 3471153, 3471154, 3471157, 3471162, 3471164, 3471165

12 **V**, **Length** 14.00, **Lead length** 83.00, **Lead length 2** 37.00, **Height** 16.00, **Thickness** 6.00

**Alternative no.:** R922

### 140815 Brush Set

**Replacing:** 3471834

**Servicing:** 176, 3471153, 3471154, 3471155, 3471162, 3471164, 3471165, 3471169, 3471170, 3471173, 3471174, 3471175, 3471176

12 **V**, **Length** 14.00, **Lead length** 43.00, **Lead length 2** 84.00, **Height** 16.00, **Thickness** 6.00

### 140943 Brush Set

**Replacing:** 10499524

**Servicing:** PG260, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

12 **V**, **Length** 16.00, **Lead length** 28.00, **Height** 19.00, **Thickness** 6.00

### 141045 Brush Set

**Replacing:** 10484034

**Servicing:** PG260F1, 8000396, 9000772, 9000785, 9000791, 9000794, 9000795, 9000817, 9000824, 9000884, 96208783, 96450663

12 **V**, **Length** 11.00, **Lead length** 29.50, **Height** 16.00, **Thickness** 5.00

### 141190 Brush Set

**Servicing:** 10455503, 111089, 112847, 800264, 96208781, 96275481, 96289430, 96569440

12 **V**, **Length** 12.00, **Lead length** 38.00, **Lead length 2** 26.00, **Height** 12.90, **Thickness** 4.45

## 141230 Brush Set

**Servicing:** 00E091, 110397, 110566, 111534, 112161, 17610-Q1010, 500340, CER3087

12 **V**, **Length** 17.50, **Lead length** 36.00, **Height** 18.00, **Thickness** 8.00

## 141242 Brush

**Servicing:** PG260L, -M, 10453919, 10465521, 9000879, 9000885, 9000889, 9000895

12 **V**, **Length** 15.00, **Lead length** 115.50, **Height** 18.00, **Thickness** 5.00

*Brush set: HC-CARGO 141270.*

Pkg. 10

## 141270 Brush

**Servicing:** 10465521

**Length** 13.50, **Lead length** 30.50, **Height** 18.00, **Thickness** 5.00

*Used w/ HC-CARGO 141242.*

## 142043 Brush Set

**Servicing:** PG260D, 12564089, 8000048, 8000180, 8000387, 9000856, 9000902, 9000934, 9000967, 96550792

12 **V**, **Length** 12.50/11.50, **Lead length** 27.00, **Height** 15.00, **Thickness** 5.00

## RX1074 Brush Set

**Replacing:** 1946491

**Servicing:** 35MT, 1113391, 1113402, 1113432, 1113473, 1113476, 1113499, 1113652, 1113658, 1113659, 1113660, 1113662, 1113664

12 **V**, **Length** 21.50, **Height** 20.50, **Thickness** 9.50

## RX1084 Brush Set

**Replacing:** D762, 1893296

**Servicing:** 5MT, SD200, SD250, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018

12 **V**, **Length** 13.50, **Height** 15.90, **Thickness** 6.50

## RX1214 Brush Set

**Replacing:** 1852880

**Servicing:** 25MT, 1109216, 1109218, 1109219, 1109495, 1109496, 1109500, 1109550, 1109559, 1109563, 1109565, 1109566, 1109567

12 **V**, **Length** 19.00, **Height** 19.00, **Thickness** 8.00

## RX1224 Brush Set

**Replacing:** 1852884

**Servicing:** 40MT 400/450, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1114802, 1114807, 1114808

12 **V**, **Length** 21.00, **Lead length** 45.50, **Height** 38.00, **Thickness** 9.50

## RX122H4 Brush Set

**Replacing:** 1852883, 1852882

**Servicing:** 40MT 400/450, 1109295, 1109545, 1109790, 1114682, 1114687, 1114688, 1114805, 1114816, 1114830, 1114839, 1114840

24 **V**, **Length** 21.00, **Lead length** 46.00, **Height** 38.10, **Thickness** 9.50

## RX1246 Brush Set

**Replacing:** 1852887

**Servicing:** 50MT, 10478813, 10478877, 10478881, 10478906, 10478917, 1990277, 1990298, 1993859, 1993864, 1993968

12 **V**, **Length** 19.50, **Lead length** 44.00, **Height** 38.00, **Thickness** 8.00

## RX124H6 Brush Set

**Replacing:** 1852888

**Servicing:** 50MT 400, 10478800, 10478807, 10478808, 10478843, 10478844, 10478845, 10478846, 10478848, 10478849, 10478850, 10478851

24-64 **V**, **Length** 21.50, **Lead length** 45.00, **Height** 38.00, **Thickness** 7.80

## RX1344 Brush Set

**Replacing:** 1852892

**Servicing:** 42MT, 10478801, 10478802, 10478803, 10478804, 10478809, 10478810, 10478824, 10478894, 10478918, 10478931, 10478932

12 **V**, **Length** 24.90, **Lead length** 40.00, **Height** 36.60, **Thickness** 10.60



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#Available while stock last, * Program development.

## RX134H4 Brush Set

**Replacing:** 1852894

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478820, 10478836, 10478839, 10478892

24 **V**, **Length** 24.90, **Lead length** 40.00, **Height** 36.90, **Thickness** 10.60

## RX1354 Brush Set

**Replacing:** 1852891, 1852889

**Servicing:** 37MT, 41MT, 10461169, 10478805, 10478806, 10478812, 10478818, 10478825, 10478890, 10478897, 10478921, 10478926

12 **V**, **Length** 27.50, **Lead length** 40.00, **Height** 28.60, **Thickness** 9.60

## RX135H4 Brush Set

**Replacing:** 1852893

**Servicing:** 37MT, 41MT, 10478811, 10478814, 10478815, 10478817, 10478819, 10478826, 10478898, 10478925, 10478960, 10478961

24 **V**, **Length** 26.60, **Lead length** 40.00, **Height** 28.60, **Thickness** 9.60

## RX604 Brush Set

**Replacing:** D757, 1946400, 1906966, 1906945

**Servicing:** 5MT, 8MT, 10MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

12 **V**, **Length** 15.70, **Height** 19.10, **Thickness** 6.50

## RX664 Brush Set

**Replacing:** 1906990, 1892890

**Servicing:** 30MT, 35MT, 1107515, 1107547, 1107548, 1107553, 1107555, 1107869, 1109051, 1109140, 1113101, 1113105, 1113113, 1113115

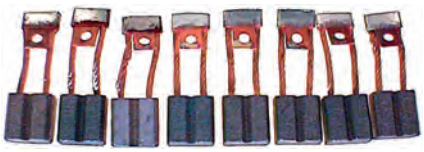
24 **V**, **Length** 19.00, **Height** 19.00, **Thickness** 9.50

## RX698 Brush Set

**Replacing:** 1906988

**Servicing:** 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108951, 1108952, 1108953

12 **V**, **Length** 19.20, **Lead length** 40.00, **Height** 19.00, **Thickness** 9.50



## RX708 Brush Set

**Replacing:** 1946483, 1946473, 1946407, 1906986

**Servicing:** 40MT, 1109827, 1113172, 1113386, 1113477, 1113483, 1113485, 1113487, 1113539, 1113540, 1113542, 1113544, 1113583

24 **V**, **Length** 19.20, **Lead length** 41.00, **Height** 19.00, **Thickness** 9.50

## RX874 Brush Set

**Replacing:** 1946484, 1906987, 1906968, 1906962, 1906958

**Servicing:** 30MT, 35MT, 1109045, 1109046, 1109047, 1109048, 1109050, 1113001, 1113002, 1113003, 1113004, 1113005, 1113007, 1113008

12 **V**, **Length** 19.00, **Height** 19.00, **Thickness** 9.40

## RX9212 Brush Set

**Replacing:** 38367, 1946487, 1946426, 1906989, 1906918, 1852886

**Servicing:** 50MT, 10478827, 10478828, 10478829, 10478830, 10478919, 1108901, 1108902, 1108904, 1108907, 1108909, 1108910, 1108911

24 **V**, **Length** 19.20, **Lead length** 37.00, **Height** 19.10, **Thickness** 8.00

## RX954 Brush Set

**Replacing:** 1976861, 1946434

**Servicing:** 20MT, 25MT, 1107506, 1107508, 1107510, 1107511, 1107512, 1107513, 1107516, 1107517, 1107518, 1107519, 1107520, 1107521

6/12 **V**, **Length** 19.00, **Height** 19.00, **Thickness** 9.50

## Brushes

Pkg. 100

## R909/0 Brush

**Replacing:** 140813

12 **V**, **Length** 14.00, **Lead length** 37.65, **Height** 15.80, **Thickness** 5.90

**Alternative no.:** 140813

Pkg. 100

## R922 Brush

**Replacing:** 140814

12 **V**, **Length** 14.00, **Lead length** 84.50, **Height** 15.80, **Thickness** 5.90

**Alternative no.:** 140814

Pkg. 100

## R924 Brush

**Replacing:** 140813

12 **V**, **Length** 14.00, **Lead length** 43.50, **Height** 16.00, **Thickness** 6.00

**Alternative no.:** 140813

## Bushings

Pkg. 10

## 140036 Bushing

**Replacing:** 3471553

**Servicing:** 141, 150, 152, 153, 155, 162, 163, 164, 165, 168, 169, 172, 173, 174, 176, 177, 3471141, 3471143, 3471144, 3471150

**ID** 12.11, **OD** 14.08, **Length** 14.00

**Alternative no.:** B140036

Pkg. 10

## 140053 Bushing

**Replacing:** 10472567

**Servicing:** 37MT, 10478812, 10478815, 10478817, 10478818, 10478897, 10478898, 10478925, 10478926, 10478961, 10478999, 10479013

**ID** 15.99, **OD** 19.15, **Length** 18.90

**Alternative no.:** B140053

Pkg. 10

## 140064 Bushing

**Replacing:** 35070

**ID** 12.07, **OD** 15.05, **Length** 20.00

**Alternative no.:** B140064

Pkg. 10

## 140070 Bushing

**Replacing:** D1666, 38273, 1894636

**Servicing:** 40MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108701, 1108702

**ID** 14.37, **OD** 19.17, **Length** 24.60

Pkg. 10

## 140071 Bushing

**Replacing:** D1674, 1943628

**Servicing:** 35MT, 37MT, 40MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10461169, 10478801, 10478802

**ID** 14.36, **OD** 19.17, **Length** 19.10

Pkg. 10

## 140074 Bushing

**Replacing:** D1684, 1955994, 1955991, 1945509, 1942258, 1894635

**Servicing:** 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

**ID** 15.97, **OD** 19.20, **Length** 21.90

Pkg. 10

## 140181 Bushing

**Replacing:** D1676, 810620, 35058, 1938743

**Servicing:** 5MT, 8MT, 10MT, 25MT, 27MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455340, 10455603, 10496873, 10496874

**ID** 14.37, **OD** 16.03, **Length** 16.40

Pkg. 5

## 140182 Bushing

**Replacing:** D1678, 820148

**Servicing:** 25MT, 1107071, 1107146, 1107203, 1107539, 1107587, 1107588, 1107848, 1107849, 1107851, 1107852, 1107973, 1107977

**ID** 19.00, **OD** 20.65, **Length** 18.50

Pkg. 5

## 140183 Bushing

**Replacing:** D1688, 1932190, 1923904

**Servicing:** 5MT, 10MT, 10455010, 10455011, 10455016, 10455017, 10455019, 10455025, 10455048, 10455053, 10455054, 10455300, 10455301

**ID** 12.00, **OD** 13.17, **Length** 12.75

Pkg. 5

## 140184 Bushing

**Servicing:** 5MT, 1007010044, 1107006, 1107012, 1107014, 1107015, 1107016, 1107017, 1107021, 1107024, 1107025, 1107028, 1107029

**ID** 14.38, **OD** 15.90, **Length** 16.70

Pkg. 5

## 140185 Bushing

**Replacing:** D1680, 1939345, 1839348, 1839345, 1836505

**Servicing:** 25MT, 27MT, 1007003, 1107001, 1107005, 1107007, 1107008, 1107009, 1107013, 1107018, 1107019, 1107022, 1107023, 1107033

**ID** 12.75, **OD** 14.30, **Length** 19.85



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Pkg. 5

## 140206 Bushing

**Replacing:** 1988096

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478804

**ID** 21.30, **OD** 24.40, **Length** 25.00

Pkg. 5

## 140214 Bushing

**Replacing:** 1985234

**Servicing:** 37MT, 10461169, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825

**ID** 22.53, **OD** 25.67, **Length** 25.40

Pkg. 5

## 140215 Bushing

**Replacing:** D1671, 1891927, 1872678

**Servicing:** 35MT, 10455304, 10455355, 10455500, 1107051, 1107071, 1107081, 1107086, 1107090, 1107117, 1107146, 1107149, 1107185

**ID** 14.35, **OD** 17.55, **Length** 19.00

Pkg. 5

## 140217 Bushing

**Replacing:** D1689, 1862383

**Servicing:** 20MT, 10455304, 10455312, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321, 10455322, 10455323, 10455324

**ID** 12.73, **OD** 15.91, **Length** 19.80

Pkg. 10

## 140262 Bushing

**ID** 12.16, **OD** 13.20, **Length** 12.65

**Alternative no.:** B140262

Pkg. 10

## 140268 Bushing

**ID** 12.09, **OD** 16.00, **Length** 12.00

**Alternative no.:** B140268

Pkg. 10

## 140269 Bushing

**ID** 12.03, **OD** 16.02, **Length** 17.00

**Alternative no.:** B140269

Pkg. 5

## 140404 Bushing

**Replacing:** 1962606

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455322, 10455324, 10455325, 10455326, 10455331, 10455500, 1107295, 1107296, 1107297

**ID** 19.19, **OD** 31.81, **Length** 10.29

Pkg. 10

## 140406 Bushing

**Replacing:** 1933999

**Servicing:** 30MT, 35MT, 1109219, 1113031, 1113059, 1113089, 1113090, 1113100, 1113101, 1113111, 1113113, 1113114, 1113115, 1113119

**ID** 19.30, **OD** 22.60, **Length** 19.25

Pkg. 5

## 140477 Bushing

**Replacing:** 1923484, 1894637

**Servicing:** 40MT, 50MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

**ID** 21.24, **OD** 24.50, **Length** 31.70

Pkg. 5

## 140478 Bushing

**Replacing:** 1894638, 1869755

**Servicing:** 50MT, 10478800, 10478807, 10478808, 10478813, 10478827, 10478828, 10478829, 10478830, 10478843, 10478844, 10478845

**ID** 17.50, **OD** 22.35, **Length** 28.50

Pkg. 10

## 140601 Bushing

**Replacing:** 10456459

**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

**ID** 14.03, **OD** 17.00, **Length** 16.20

Pkg. 10

## 140776 Bushing

**Replacing:** 1894023

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455317, 10455318, 10455319, 10455321, 10455327, 10455336, 1107146, 1107588, 1108239

**ID** 19.00, **OD** 22.00, **Length** 18.00

Pkg. 10

## 140939 Bushing

**Replacing:** 10475580

**Servicing:** PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834, 9000836, 9000884

**ID** 6.07, **OD** 8.75, **Length** 10.80

Pkg. 5

## 140940 Bushing

**Replacing:** 10475582

**Servicing:** PG260, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

**ID** 9.90, **OD** 16.60, **Length** 8.05

Pkg. 5

## 140941 Bushing

**Replacing:** 10475631

**Servicing:** PG260, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834

**ID** 8.10, **OD** 11.90, **Length** 9.10

Pkg. 5

## 140942 Bushing

**Replacing:** 10476599

**Servicing:** PG260, 22506694, 9000786, 9000798, 9000805, 9000806, 9000812, 9000820, 9000822, 9000834, 9000836

**ID** 22.35, **OD** 26.70, **Length** 9.00

Pkg. 5

## 140944 Bushing

**Replacing:** 1957017

**Servicing:** 8MT, 10MT, 25MT, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

**ID** 19.35, **OD** 20.60, **Length** 9.50

Pkg. 5

## 141046 Bushing

**Servicing:** PG150, PG260F1, 9000817, 9000824

**ID** 6.10, **OD** 10.05, **Length** 10.40

Pkg. 5

## 141047 Bushing

**Servicing:** PG260F1, 00E091, 110397, 112161, 9000817, 9000824, CER3087

**ID** 8.10, **OD** 12.00, **Length** 6.80

Pkg. 5

## 141048 Bushing

**Servicing:** PG260F1, 9000817, 9000824

**ID** 22.34, **OD** 28.65, **Length** 9.00

Pkg. 10

## 141122 Bushing

**Servicing:** PG260F2, -G, -L, 22506694, 9000836, 9000884

**ID** 10.00, **OD** 14.05, **Length** 9.35

Pkg. 10

## 141123 Bushing

**Replacing:** D1682, 1923907

**Servicing:** 8MT, 10MT, SD300, 8000396

**ID** 11.95, **OD** 13.15, **Length** 18.40

Pkg. 10

## 141124 Bushing

**Replacing:** 1984530

**Servicing:** 5MT, SD200, 10455018, 1109551, 1998447, 1998482, 1998529, 1998532, 1998547

**ID** 13.00, **OD** 15.15, **Length** 12.40



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Pkg. 10

**141125** Bushing
**Servicing:** PG260F2, 9000884
**ID** 22.40, **OD** 26.70, **Length** 8.10

Pkg. 10

**141126**# Bushing
**Servicing:** PG200, PG250
**ID** 25.60, **OD** 31.80, **Length** 8.85

Pkg. 10

**141127** Bushing
**Replacing:** 10457076
**Servicing:** 28MT, 10479619
**ID** 13.00, **OD** 16.00, **Length** 15.90

Pkg. 10

**141128** Bushing
**Servicing:** 28MT
**ID** 14.04, **OD** 16.02, **Length** 16.00

Pkg. 10

**141202** Bushing
**Servicing:** 112847, 113136, 8000174, 800264, 96275481, 96289430, 96569440
**ID** 10.03, **OD/collar** 18.42, **OD** 14.00, **Length** 10.00, **Height/collar** 2.00

Pkg. 10

**141257** Bushing
**Servicing:** 9000879, 9000884, 9000885, 9000895, 96450663
**ID** 10.10, **OD/collar** 15.90, **OD** 12.80, **Length** 12.50, **Height/collar** 3.00

Pkg. 10

**142044** Bushing
**Servicing:** 12564089, 8000048, 8000180, 8000387, 9000856, 9000902, 9000934, 9000967, 96550792
**ID** 6.00, **OD/collar** 12.21, **OD** 8.79, **Length** 11.65, **Height/collar** 3.00

Pkg. 5

**142047** Bushing
**Replacing:** 96550792
**Servicing:** 8000180, 8000396, 96550792
**ID** 22.34, **OD** 26.70, **Length** 5.50

Pkg. 100

**B140036** Bushing
**Replacing:** 3471553
**ID** 12.11, **OD** 14.08, **Length** 14.00
**Alternative no.:** 140036

Pkg. 100

**B140053** Bushing
**Replacing:** 10472567
**ID** 15.99, **OD** 19.15, **Length** 18.90
**Alternative no.:** 140053

Pkg. 100

**B140064** Bushing
**Replacing:** 35070
**ID** 12.06, **OD** 15.07, **Length** 19.90
**Alternative no.:** 140064

Pkg. 100

**B140262** Bushing
**Replacing:** B140262
**ID** 12.16, **OD** 13.20, **Length** 12.65
**Alternative no.:** 140262



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## Bearings

### Ball Bearings

Pkg. 10

**140222** FAG 608-2RS-C3 Ball Bearing
**Replacing:** 9440924, 10498718
**Servicing:** 09000756, 09000794, 09000801, 10455506, 110566, 111534, 17610-Q1010, 1998518, 21020892, 21020893, 21021366, 21021648
**ID** 8.00, **OD** 22.00, **Height** 7.00
**Alternative no.:** 142279, 333106

Pkg. 10

**140271** FAG 6000-C-2HRS-C3 Ball Bearing
**Replacing:** 1989646
**Servicing:** 00219091, 00219099, 10463007, 10463013, 10463014, 10463016, 10463017, 10463043, 10463097, 10463176, 10463187, 10463197
**ID** 10.00, **OD** 26.00, **Height** 8.00
**Alternative no.:** 142277, 333099

**142021** FAG F-845204.62/28 Ball Bearing
**Servicing:** 39MT, 19011501, 19024196
**ID** 28.00, **OD** 58.00, **Height** 16.00, **Lock ring** w/, **Teflon ring** w/
*w/ 2 internal grooves.*

## Needle Bearings

Pkg. 10

**140242** 5★ Needle Bearing
**Replacing:** 9440923
**Servicing:** PMGR SERIES, M78, M79, 00E091, 09000794, 09000801, 10455506, 10461334, 110397, 110566, 111089, 112161, 112847, 113136
**ID** 12.00, **OD** 16.00, **Height** 10.00

Pkg. 10

**140421** Needle Bearing
**Replacing:** 9441607, 10469066
**Servicing:** 5MT, 10455001, 10455006, 10455008, 10455009, 10455012, 10455013, 10455015, 10455024, 10455042, 10455045, 10455046
**ID** 11.13, **OD** 15.90, **Height** 12.70

Pkg. 5

**140468** 5★ Needle Bearing
**Servicing:** 21020892, 21020893, 21021366, 21021648, 8200138, 9000700, 9000719, 9000735, 9000751, 9000756, 9000758, 9000762, 9000763
**ID** 8.00, **OD** 12.00, **Height** 10.00

Pkg. 5

**140750** Needle Bearing
**Replacing:** 9441512
**Servicing:** PG260F1, 00E091, 09000756, 110397, 112161, 21020892, 21020893, 21021366, 21021648, 9000700, 9000751, 9000758, 9000772
**ID** 22.20, **OD** 28.60, **Height** 9.40

Pkg. 5

**140751** 5★ Needle Bearing
**Replacing:** 9441510
**Servicing:** PG100, -150, 09000756, 21020892, 21020893, 21021366, 21021648, 9000751, 9000758, 9000772, 9000785, 9000791, 9000794
**ID** 8.00, **OD** 12.00, **Height** 7.88

Pkg. 10

**141247** Needle Bearing
**Servicing:** 110397, 112161
**ID** 9.00, **OD** 13.00, **Height** 8.00

## Repair Kits

**130519** Repair Kit
**Servicing:** 40MT 200, 250, 300 SERIES, 1113818, 1113824, 1113825, 1113827, 1113840, 1113842, 1113846, 1113849, 1113850, 1113851
*24 V.*

**130529** Repair Kit
**Servicing:** 50MT 250, 300 SERIES
*24 V.*



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**131348** Repair Kit

**Servicing:** 40MT 400, 450 SERIES, 1114711, 1114842, 1114843, 1114845, 1114846, 1114848, 1114849, 1114850, 1114854, 1114856, 1114872

**131490** Repair Kit

**Servicing:** 30MT, 35MT, 1113652, 1113683

**131500** Repair Kit

**Servicing:** 42MT

**131501** Repair Kit

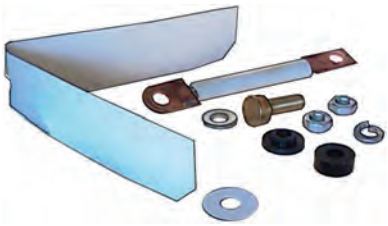
**Servicing:** 42MT, DELCO 24 V, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478980, 10478986, 10478998

**132589** Repair Kit

**Servicing:** 37MT

**132590** Repair Kit

**Servicing:** 37MT



**134840**# Terminal Kit

**Servicing:** 28MT

**137062** Repair Kit

**Servicing:** 50MT 400, 450 SERIES, DELCO, 10478864

*24 V.*

**137064** Repair Kit

**Servicing:** 50MT, 10478864

**230539** Terminal Kit

**Replacing:** 1988340, 1988339, 1979451, 10498663

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048, 10461054

**232937** Repair Kit

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT

**232941** Repair Kit

**Servicing:** 28MT

## Sundry Parts

### Covers

Pkg. 10

**138225** Cover

**Replacing:** 10475583

**Servicing:** PG260, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

**ID** 14.30, **OD** 17.00, **Height** 4.85

### Oil Seals

Pkg. 10

**132682** Oil Seal

**Replacing:** 1918047, 1913433, 1891143, 1867150

**Servicing:** 30MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478801, 10478802

**ID** 17.46, **OD** 34.80, **Height** 6.35

Pkg. 10

**135199** Oil Seal

**Servicing:** 28MT, 10479613, 10479615, 10479616, 10479617, 10479621, 10479623, 1113272, 1113276, 1113277, 1113285, 1113291, 1113292

**ID** 24.30, **OD** 35.10, **Height** 5.90

Pkg. 5

**135642** Oil Seal

**Replacing:** 1937718

**Servicing:** 37MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825, 10478826

**ID** 19.35, **OD** 35.20, **Height** 6.45

Pkg. 10

**237844** Oil Seal

**Servicing:** 39MT, 19011501, 19024196

**ID** 28.30, **OD** 48.10, **Height** 5.60

## O-rings

Pkg. 5

**133965** O-ring

**Replacing:** 10456474

**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

**ID** 86.90, **Thickness** 1.50

Pkg. 5

**133974** O-ring

**Servicing:** 28MT, 10461470, 10465054, 10479613, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273

**ID** 79.00, **Thickness** 2.00, **Material** Rubber

Pkg. 10

**134486** O-ring

**ID** 8.00, **Thickness** 2.00

Pkg. 10

**134487** O-ring

**Servicing:** 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969, 1113982

**ID** 10.00, **Thickness** 2.00

Pkg. 10

**134633** O-ring

**Servicing:** 110566, 1109290, 1113285, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962

**ID** 6.00, **Thickness** 2.00

Pkg. 10

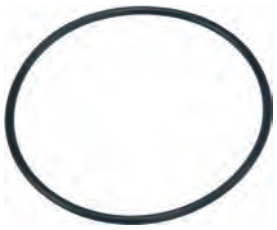
**136340** O-ring

**Replacing:** 1916272

**Servicing:** 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264, 1113827, 1113840, 1113853

**ID** 105.00, **Thickness** 4.00

Pkg. 10



**139563** O-ring

**Servicing:** 28MT, 10461470, 10465054, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276, 1113277

**ID** 52.45, **Thickness** 1.95

Pkg. 10

**230378** O-ring

**Replacing:** 1918621

**Servicing:** 19011501, 19024196, 8200009, 8200022, 8200037, 8200039

**ID** 3.70, **Thickness** 1.80

Pkg. 5

**232434** O-ring

**Servicing:** 28MT, 10461470, 10479626, DRX67095, DRX67149

**ID** 5.00, **Thickness** 1.80



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

Pkg. 10

**233046** O-ring

**Replacing:** 1914593

**Servicing:** 30MT, 35MT, 1113157, 1113190, 1113402, 1113626, 1113655, 1113672

**ID** 8.00, **Thickness** 1.80

Pkg. 10

**233048** O-ring

**Replacing:** 1921805, 1894643

**Servicing:** 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048

**ID** 8.65, **Thickness** 1.75

Pkg. 10

**233049** O-ring

**Replacing:** 1985304

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264, 1990357

**ID** 56.70, **Thickness** 3.50

Pkg. 10

**233050** O-ring

**Replacing:** 1985320

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479118, 10479252, 10479264

**Thickness** 2.50, **Material** Rubber

Pkg. 10

**233051** O-ring

**Replacing:** 1985960, 1851960

**Servicing:** 30MT, 35MT, 37MT, 41MT, 42MT, 10461025, 10461031, 10478980, 10478986, 10478998, 10479111, 10479115, 10479252, 10479264

**Thickness** 2.50

Pkg. 10

**233053** O-ring

**Servicing:** 37MT, 41MT, 42MT, 10479623, 1113277, 1113285

**Thickness** 1.70

Pkg. 10

**233057** O-ring

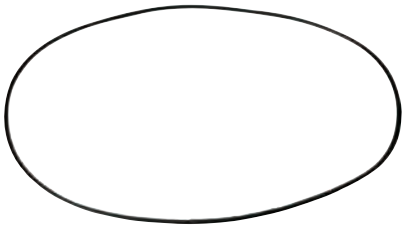
**Replacing:** 1914373, 1894642

**Servicing:** 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048

**ID** 5.70, **Thickness** 1.55

*Pin kit: HC-CARGO 230362.*

Pkg. 10



**235736** O-ring

**ID** 102.60, **Thickness** 1.75,
**Material** Rubber

## Thru Bolts

Pkg. 2

**139799** Through Bolt

**Replacing:** 1960908

**Servicing:** 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107513, 1107515, 1107516, 1107517, 1107518, 1107519, 1107520

**Total length** 195.70,
**Length/rear collar** 190.50,
**Thread length** 28.00,
**Thread size** 1/4" UNC

Pkg. 2

**230012** Through Bolt

**Replacing:** 1939970, 1931654

**Servicing:** 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455312, 10455314, 10455315, 10455316

**Total length** 154.50,
**Length/rear collar** 149.00,
**Thread length** 27.50,
**Thread size** 1/4" UNC

Pkg. 2

**230013** Through Bolt

**Replacing:** 1941111

**Servicing:** 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455334, 10455343, 10455344, 10455345

**Length/rear collar** 150.50,
**Thread size** 1/4" UNC,
**Thread size/rear** 1/4" UNC



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 2

## 230418 Through Bolt

**Replacing:** 1893453

**Servicing:** 10455500, 1107557, 1109212, 1109213, 1109214, 1109215, 1109216, 1109217, 1109218, 1109495, 1113593, 1113594, 1113596

**Total length** 189.00, **Length/rear collar** 183.00, **Thread length** 24.10, **Thread size** 1/4" UNC

Pkg. 10

## 230795 Through Bolt

**Replacing:** 1893276

**Servicing:** 1109521, 1109522, 1109523, 1109524, 1109526, 1109528, 1109530

**Total length** 5.00 (7/8"), **Length/rear collar** 149.20, **Thread length** 15.00/16", **Thread size** 10-24 UNC

Pkg. 2

## 233153# Through Bolt

**Servicing:** 9000879, 9000885, 9000895

**Total length** 166.75, **Thread size** M5, **Thread size/rear** M5

Pkg. 2

## 233154 Through Bolt

**Replacing:** 10475638

**Servicing:** 8000032, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821, 9000822, 9000834

**Total length** 106.50, **Length/rear collar** 102.00, **Thread length** 17.65, **Thread size** M5

Pkg. 10

## 233691 Through Bolt

**Servicing:** 10461470, 10465054, 10479613, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276

**Total length** 185.40, **Length/rear collar** 180.00, **Thread length** 34.25, **Thread size** M6

### Various

Pkg. 5

## 132726 Adjustment Shims

**Replacing:** 9785608

**Servicing:** 5MT, 10MT, 25MT

**OD** 146.40, **Thickness** 0.50

Pkg. 10

## 133023 Plug

**Replacing:** 9417501, 103893

**Servicing:** 40MT, 50MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1108451, 1108452

**OD** 26.20

Pkg. 10

## 133024 Plug

**Replacing:** 1949619

**Servicing:** 30MT, 40MT, 42MT, 50MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461061, 10478800

Pkg. 10

## 133025 Plug

**Replacing:** 9419572

**Servicing:** 30MT, 10455309, 10455310, 10455311, 10455344, 10455345, 10455346, 1108282, 1108286, 1108325, 1108345, 1108347, 1108350

**OD** 15.90

Pkg. 10

## 133027 Gasket

**Replacing:** 1962603

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455325, 10455500, 1107295, 1107296, 1107297, 1107308, 1107322, 1107335, 1107377

**ID** 69.15, **ID/mount. hole** 5.75, **OD** 94.75, **Thickness** 1.50, **Material** Rubber

Pkg. 10

## 134665# Felt

**Replacing:** 1955303

**Servicing:** 40MT, 50MT, 1113827, 1113840, 1113853, 1113923, 1113942, 1113949, 1113950, 1113959, 1113960, 1113962, 1113967, 1113969

**OD** 22.20

Pkg. 10

## 135290 Brake Washer

**Servicing:** 152, 163, 165, 3471143, 3471152, 3471154, 3471163, 3471165, 3471171, 3471390

**ID** 12.10, **OD** 29.70, **Thickness** 2.00, **Material** Fiber



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Pkg. 5

## 135938 Plug

**Replacing:** 1945356

**Servicing:** 40MT, 50MT, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048

**OD** 34.93

Pkg. 5

## 138144 Ground Lead

**Replacing:** 1960864, 1926605

**Servicing:** 10MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314

**ID** 4.25, **Length** 16.25, **Lead length** 64.50, **Width** 9.45

Pkg. 10

## 138224 Drain Tube

**Replacing:** 10489381, 10475584

**Servicing:** PG260, 22506694, 8000032, 8000321, 9000786, 9000798, 9000806, 9000812, 9000834, 9000835, 9000836, 9000860, 9000936

**ID** 6.20, **OD** 8.15, **Length** 25.80

Pkg. 5

## 138660 Brake Washer

**Replacing:** 821453

**Servicing:** 10MT, 20MT, 25MT, 27MT, 30MT, 35MT, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

**ID** 19.10, **OD** 50.80, **Thickness** 2.40

Pkg. 5

## 138680 Ground Lead

**Replacing:** 1987254, 1930694, 1892160, 1876361

**Servicing:** 15MT/GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 10455500, 1107547, 1107557, 1107572, 1107582, 1107588, 1107863, 1109216

**ID** 4.30, **Length** 16.55, **Lead length** 55.00, **Width** 8.90

Pkg. 10

## 139332 Screw

**Replacing:** 1970469, 1968396, 1913100, 10499632

**Servicing:** 37MT, 40MT, 42MT, 50MT, 1007003, 1007010044, 1009812, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308

**Thread** M10, **Total length** 16.45, **Thread length** 11.25

Pkg. 5

## 139798 Grommet

**Replacing:** 1955947, 1955946, 1893370, 1846097

**Servicing:** 10MT, 15MT/GR, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310

Pkg. 10

## 139983 Brake Washer

**Replacing:** 1985617, 1984076

**Servicing:** 42MT, 10455006, 10455024, 10455317, 10455318, 10455319, 10455321, 10455322, 10455323, 10455324, 10455325, 10455326

**ID** 14.30, **OD** 33.30, **Thickness** 1.50

Pkg. 5

## 230017 Oil Wick

**Replacing:** 1986466, 1920400, 1916439

**Servicing:** 10-27MT, 1009812, 10455321, 10455323, 10455336, 10455500, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059

**Height/thickness** 7.90

Pkg. 5

## 230029 Brake Washer

**Replacing:** 818265, 10498921

**Servicing:** 10MT, 1007003, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312

**ID** 14.50, **OD** 33.50, **Thickness** 3.50, **Material** Leather

Pkg. 10

## 230105 Insulator

**Replacing:** 1976832, 1927853

**Servicing:** 8MT, 10MT, 10455304, 10455355, 10455600, 1107159, 1107201, 1107203, 1107204, 1107205, 1107209, 1107214, 1107215

Pkg. 10

## 230106 Grommet

**Replacing:** 1966391, 1945827, 1935168

**Servicing:** 10MT, 1107201, 1107203, 1107204, 1107205, 1107206, 1107214, 1107215, 1107222, 1107224, 1107228, 1107229, 1107233

**Dim. A** 18.45, **Dim. B** 10.55, **Dim. C** 15.10

Pkg. 5

## 230107 Brake Washer

**Replacing:** 1914842

**Servicing:** 10MT, 1007010044, 10455340, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1107006

**ID** 14.30, **OD** 25.00, **Thickness** 1.60, **Material** Steel

Pkg. 5

## 230188 Stop Collar

**Replacing:** 10456465

**Servicing:** 28MT, 10461470, 10465054, 10479600, 10479604, 10479605, 10479606, 10479607, 10479608, 10479611, 10479612, 10479613

**ID** 14.00, **OD** 20.00, **Height** 6.50

*Used w/ retaining ring: HC-CARGO 230189.*

Pkg. 5

## 230189 Retaining Ring

**Replacing:** 10456475

**Servicing:** 28MT, 10461470, 10465054, 10479615, 10479621, 10479623, 10479626, 10479627, 1113267, 1113270, 1113273, 1113276, 1113277

**Thickness** 2.00, **Material** Steel

*Stop collar: HC-CARGO 230189.*

Pkg. 5

## 230414 Drain Tube

**Replacing:** 10497538

**Servicing:** PG100, -150, -200, -250, 9000719, 9000735, 9000762, 9000768, 9000773, 9000776, 9000797

**ID** 4.95, **OD** 7.65, **Length** 22.10

Pkg. 10

## 230417 Oil Cup

**Replacing:** 1985246

**Servicing:** 37MT, 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803

**OD** 14.30, **Height** 10.55

Pkg. 10

## 230419 Oil Cup

**Replacing:** 1978756

**Servicing:** 35MT EXT ROTATABLE, 40MT 400, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047

**OD** 15.90, **Height** 9.65

Pkg. 5

## 230472 Brake Washer

**Replacing:** 10499094

**Servicing:** 5MT, SD210, -260, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455010, 10455011, 10455012, 10455013

**ID** 12.70, **OD** 33.30, **Thickness** 3.20, **Material** Leather



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#Available while stock last, * Program development.

Pkg. 10

## 230515 Screw

**Replacing:** 1914869

**Servicing:** 35MT, 37MT, 40MT, 42MT, 50MT, 1009812, 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046

**Thread** M8, **Total length** 29.45, **Thread length** 24.55

Pkg. 10

## 230516 Screw

**Replacing:** 1948537

**Servicing:** 10461024, 10461025, 10461030, 10461031, 10461041, 10461043, 10461045, 10461046, 10461047, 10461048, 10461054, 10461059

**Total length** 29.70, **Thread length** 21.45, **Thread size** M5

## 230538 Seal Kit

**Servicing:** 37MT, 42MT, 1113901, 1113904, 1113919, 1113930, 1113934, 1113943, 1990204, 1990283

## 230540 Insulation Kit

**Replacing:** 1946765, 1944841, 1913027, 1906302, 1906046, 1906031, 1851632

**Servicing:** 42MT, 1009812, 10478800, 10478807, 10478808, 10478813, 10478830, 10478843, 10478844, 10478845, 10478846, 10478848

## 230541 Terminal Lead

**Replacing:** 1988129, 1988128

**Servicing:** 42MT, 10461024, 10461025, 10461030, 10461031, 10461043, 10461054, 10461068, 10478801, 10478802, 10478803, 10478804

**ID** 4.50, **Lead length** 92.80

Pkg. 10

## 230545# Brake Washer

**ID** 12.00, **OD** 30.00, **Thickness** 1.00

## 230555 Brake Washer

**Replacing:** 1911644

**Servicing:** 42MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

**ID** 21.40, **OD** 47.60, **Thickness** 4.80

Pkg. 5

## 230594 Connection

**Replacing:** 1978136, 1876358

**Servicing:** 20MT, 22MT, 25MT, 27MT, 10455500, 1107575, 1107581, 1107582, 1107583, 1107584, 1107586, 1107588, 1107589, 1107591

**Mount. hole** 4.00, **Mount. hole 2** 5.00, **Total length** 50.65

*Connecting field coil to solenoid.*

## 230595 Repair Lead

**Servicing:** 20MT, 22MT, 25MT, 27MT, 10455301, 10455304, 10455305, 10455306, 10455308, 10455340, 10455355, 10455603, 10496873

**ID** 5.45, **Length** 19.40, **Lead length** 56.00, **Width** 11.05

*Repair lead for field coil.*

Pkg. 10

## 230796 Washer

**Replacing:** 1914647

**Servicing:** 30MT, 35MT, 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

**ID** 12.70, **OD** 22.30, **Thickness** 0.80, **Material** Steel

Pkg. 10

## 230798 Insulator

**Replacing:** 1922457, 1861791

**Servicing:** 40MT, 50MT, 1009812, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800, 10478807

**ID** 12.70, **OD** 23.80, **Height** 2.20

Pkg. 5

## 232589# Plug

**Servicing:** 28MT, DRX67149

**OD** 27.20, **Height** 19.85

*Plate: HC-CARGO 233397.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 232590 Repair Lead

**Replacing:** 1988377, 1953236, 10497105

**Servicing:** 37MT, 40MT, 41MT, 42MT, 50MT, 10461025, 10461031, 10478820, 10478824, 10478836, 10479023, 10479024, 10479067, 10479069

**ID** 13.00/5.00, **Length** 27.30/24.65, **Lead length** 209.10, **Width** 19.10/10.90

*Wire lead from C.E. terminal to solenoid.*

Pkg. 5

## 232916 Gasket

**Servicing:** 40MT, 50MT

**ID** 93.50, **ID/mount. hole** 16.85, **OD** 137.35, **Thickness** 1.65

Pkg. 10

## 232917 Gasket

**Replacing:** 112632

**Servicing:** 10MT, 20MT, 22MT, 27MT

**ID** 89.50, **ID/mount. hole** 10.20, **OD** 153.45, **Thickness** 0.80

Pkg. 5

## 232918 Gasket

**Replacing:** 10475908

**Servicing:** PG260M, 8000032, 8000129, 8000193, 8000321, 9000786, 9000798, 9000805, 9000806, 9000812, 9000819, 9000820, 9000821

**ID** 59.00, **OD** 70.00, **Thickness** 0.40

## 232920 Seal

**Servicing:** PG260F2

Pkg. 5

## 232924 Gear Plate

**Replacing:** 10475642

**Servicing:** PG260M, 8000129, 9000798, 9000804, 9000805, 9000806, 9000812, 9000822, 9000827, 9000834, 9000835, 9000844, 9000850

**ID** 16.20, **OD** 70.45, **Thickness** 8.50

## 232929 Thermostat

**Replacing:** 10498158, 10468899

**Servicing:** 37MT, 41MT, 42MT, 10478824, 10478836, 10478953, 10478964, 10478965, 10478967, 10478979, 10478997, 10479019, 10479027

Pkg. 5

## 232933 Stop Collar

**Replacing:** 10457034

**Servicing:** 28MT, 10479619, 1113287

**ID** 13.00, **OD** 20.00, **Height** 6.40

*Used w/ retaining ring: HC-CARGO 232934.*

## 232985 Mounting Shim

**Servicing:** 5MT, 10MT

**OD** 124.20, **Thickness** 0.079"

Pkg. 5

## 232988 Thrust Collar

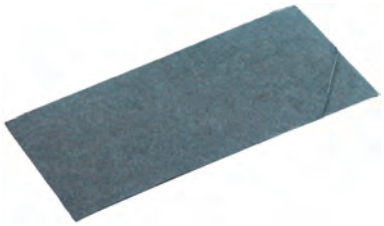
**Replacing:** 10495897, 10495828

**Servicing:** 5MT, 10MT, PG100, PG150, 10455001, 10455006, 10455008, 10455009, 10455010, 10455011, 10455012, 10455013, 10455015

**ID** 12.00, **OD** 19.00, **Height** 2.60

*Stop collar: HC-CARGO 233013.*

Pkg. 5



## 232998 Insulator

**Replacing:** 1914873

**Servicing:** 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT, 1009812, 10461025, 10461031, 10461047, 10478800, 10478807, 10478808, 10478813

## 232999 Insulator

**Replacing:** 1955990, 1949620

**Servicing:** 40MT, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 1113818, 1113820, 1113824



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#Available while stock last, * Program development.

Pkg. 10

## 233000 Insulator

**Replacing:** 1988100

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810

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## 233007 Connection

**Replacing:** 1988134, 10476198

**Servicing:** 42MT, 10478968, 10478971, 10478977, 10478978, 10478980, 10478983, 10478984, 10478985, 10478986, 10478987, 10478988

**Mount. hole** 7.55, **Mount. hole 2** 14.45, **Total length** 67.00

*Connecting field coil to solenoid.*

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Pkg. 5

## 233009 Retaining Ring

**Replacing:** 1928022

**Servicing:** 10MT, 15GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 10455304, 10455316, 10455317, 10455318, 10455319, 10455320, 10455321

**Thickness** 1.75, **Material** Steel

*Stop collar: HC-CARGO 233010.*

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Pkg. 5

## 233010 Stop Collar

**Replacing:** 1851546

**Servicing:** 30MT, 35MT, 1113089, 1113090, 1113111, 1113115, 1113124, 1113136, 1113137, 1113138, 1113139, 1113150, 1113153, 1113155

*Used w/ retaining ring: HC-CARGO 233009.*

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Pkg. 5

## 233011 Stop Collar

**Replacing:** 1928021

**Servicing:** 10MT, 15GR, 20MT, 22MT, 25MT, 27MT, 30MT, 35M, 10455304, 10455340, 10455355, 1998281

**ID** 14.30, **OD** 20.00, **Height** 4.00

*Used w/ retaining ring: HC-CARGO 233009.*

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Pkg. 5

## 233012# Thrust Collar

**Replacing:** 1964410

**Servicing:** 20MT, 22MT, 25MT, 27MT, 10455500, 1107575, 1107577, 1107582, 1107591, 1107599, 1107863, 1107871, 1109197, 1109208

**ID** 12.50, **OD** 19.00, **Height** 2.70

*Stop collar: HC-CARGO 233011. Retaining ring: HC-CARGO 233009.*

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Pkg. 5

## 233013 Stop Collar

**Replacing:** 1927849

**Servicing:** 5MT, 8MT, 10MT, SD210, -250, -255, -260, -300, PG100, -150, -200, -250, 09000756, 09000794, 09000801, 10455001

**ID** 12.00, **OD** 17.30, **Height** 4.30

*Used w/ retaining ring: HC-CARGO 233014.*

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Pkg. 5

## 233014 Retaining Ring

**Replacing:** 1927848

**Servicing:** 5MT, 8MT, 10MT, SD210, -250, -255, -260, -300, PG100, -150, -200, -250, 09000756, 09000794, 09000801, 10455001

**Thickness** 1.60

*Use w/ HC-CARGO 233013.*

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Pkg. 5

## 233015 Thrust Collar

**Replacing:** 1941067, 1927850

**Servicing:** 5MT, 8MT, 10MT, SD200, -300, 10455004, 10455007, 10455016, 10455017, 10455018, 10455019, 10455020, 10455021, 10455022

**ID** 12.16, **OD** 17.50, **Height** 2.45

*Stop collar: HC-CARGO 233013.*

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Pkg. 5

## 233142 Gasket

**Replacing:** 1964857

**Servicing:** 30MT, 35MT, 37MT, 40MT, 41MT, 42MT, 50MT

**ID** 33.50, **OD** 40.00, **Thickness** 2.50, **Material** Rubber

*Cap: HC-CARGO 232565.*

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Pkg. 5

## 233144 Connection

**Replacing:** 1945862

**Servicing:** 50MT, 10478800, 10478843, 10478846, 10478848, 10478849, 10478850, 10478851, 10478852, 10478853, 10478854, 10478855

**Mount. hole** 14.55,
**Mount. hole 2** 14.55, **Total length** 55.25

*Connecting field coil to solenoid.*

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Pkg. 10

## 233155 Adjustment Shims

**Replacing:** 14057993

**Servicing:** 5MT, 10MT, SD200, SD210

**OD** 122.00, **Material** Steel

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All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 5

## 233158 Oil Wick

**Replacing:** 1985247

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10478801, 10478802, 10478803, 10478804, 10478805, 10478806, 10478809, 10478810

**Height/thickness** 10.50

Pkg. 5

## 233159 Oil Wick

**Replacing:** 1988138, 1978754

**Servicing:** 37MT, 41MT, 42MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061

**Height/thickness** 13.00

Pkg. 5

## 233162# Pipe Plug

**Replacing:** 9427882, 453465, 10476564, 10476561, 10040001

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 30MT, 35MT, 40MT, 50MT, 1009812, 10455321, 10455323, 10455336, 10459003, 10459005

Pkg. 10

## 233408 Screw

**Replacing:** 9427815, 1984000, 1894931, 1891278

**Servicing:** 5MT, 10MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455015, 10455016, 10455017, 10455018, 10455019

**Thread** 10.32, **Total length** 41.00/64", **Thread length** 1/2", **Head type** Hex washer *w/ lock.*

Pkg. 10

## 233411 Screw

**Replacing:** 9413260, 132255

**Servicing:** 5MT, 10MT, 15MT, 20MT, 22MT, 25MT, 27MT, 10455001, 10455004, 10455006, 10455007, 10455008, 10455009, 10455010, 10455011

**Thread** 1/4"-20 UNF, **Total length** 20.40, **Thread length** 15.50

Pkg. 10

## 233412 Screw

**Replacing:** 443527, 274875

**Servicing:** 10MT, 15MT, 20MT, 22MT, 25MT, 27MT, 10455300, 10455301, 10455304, 10455305, 10455306, 10455308, 10455309, 10455310

**Thread** 8.00/32.00, **Total length** 47.00/64", **Thread length** 5.00/8"

*Hex washer head drive w/ serrated flange.*

Pkg. 10

## 233413 Screw

**Replacing:** 1959514

**Servicing:** 15MT, 20MT, 22MT, 25MT, 27MT, 1107506, 1107508, 1107509, 1107510, 1107511, 1107512, 1107513, 1107515, 1107516, 1107517

**Thread** 8.00/32.00, **Total length** 53.00/64", **Thread length** 3.00/4", **Head type** Hex washer

Pkg. 10

## 233417 Screw

**Replacing:** 1967747

**Servicing:** 10MT, 10455300, 10455301, 10455305, 10455306, 10455308, 10455309, 10455310, 10455311, 10455312, 10455314, 10455315

**Thread** 8.00/18.00, **Total length** 47.00/64", **Thread length** 5.00/8", **Head type** Hex washer *w/ notch.*

Pkg. 10

## 233418 Nut

**Replacing:** 9412305

**Servicing:** 35MT, 10461025, 10461031, 10461041, 10461045, 10461046, 10461047, 10461048, 10461059, 10461060, 10461061, 10478800

**Thread** 5/16"-24, **OD** 1/2", **Lock nut** Yes *Nylon insert.*

Pkg. 10

## 233419 Washer Kit

**Replacing:** 1970988

**Servicing:** 10MT, 20MT, 22MT, 25MT, 27MT, 10455314, 10455320, 10455322, 10455323, 10455324, 10455325, 10455326, 10455327, 10455331

**ID** 19.00/32.00, **OD** 9.00/32.00, **Thickness** 0.098"



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

Pkg. 10

**233694** Washer
**Servicing:** 28MT
**ID** 10.45, **OD** 23.60, **Thickness** 0.20, **Material** Steel

Pkg. 10

**233695** Washer
**Servicing:** 28MT
**ID** 10.50, **OD** 23.00, **Thickness** 0.80

Pkg. 10

**233979**# Insulator
**Replacing:** 1988125
**Servicing:** 37MT, 41MT, 42MT

Pkg. 5

**234301** Brake Washer
**Servicing:** 37MT
**ID** 23.80, **OD** 54.00, **Thickness** 3.40, **Material** Fiber

Pkg. 5

**234302**# Brake Washer
**Replacing:** 1985235
**Servicing:** 37MT, 10478805, 10478806, 10478811, 10478812, 10478814, 10478815, 10478817, 10478818, 10478819, 10478825, 10478826
**ID** 23.80, **OD** 54.00, **Thickness** 3.40

Pkg. 10

**235239** Drain Tube
**Servicing:** 00E091, 110397, 110566, 111534, 112161, 17610-Q1010, 500340, CER3087

Pkg. 10

**235688** Stop Collar
**Servicing:** 19011501, 39MT
**ID** 18.00, **OD** 24.40, **Height** 5.80

Pkg. 10

**235689** Retaining Ring
**Replacing:** 10511746
**Servicing:** 38MT, 39MT
**ID/housing** 16.77, **OD/housing** 20.67, **Thickness** 1.98, **Material** Steel, **Position** External
*Stop collar: HC-CARGO 235688.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Drives

**130434** Drive

**Replacing:** 2140108

**ID** 12.00, **OD** 25.30, **OD/housing** 46.45, **Total length** 61.70, **Splines A** 9, **No./teeth** 9, **Rotation** CR

**132070** Drive

**Replacing:** 2155004

**Servicing:** 2130, DM2130, DM2134

**ID** 14.05, **OD** 34.50, **OD/housing** 63.00, **Total length** 77.50, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## Brush Sets

**140465** Brush Set

**Replacing:** 2110501

**Servicing:** 2130, DM2130, DM2134

12 **V**, **Length** 22.15, **Lead length** 38.00, **Height** 19.90, **Thickness** 8.81

**USX73-852** Brush Set

**Replacing:** 2140503

12 **V**, **Length** 15.00, **Lead length** 50.00, **Height** 15.00, **Thickness** 8.00

*Brush set w/ springs: HC-CARGO 140849.*

## Bushings

Pkg. 10

**140040** Bushing

**Replacing:** 2142076

**Servicing:** M78, M79

**ID** 12.00, **OD** 15.00, **Length** 12.00

**Alternative no.:** B140040

Pkg. 10

**140043** Bushing

**Replacing:** 2140071

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** B140043

Pkg. 10

**140464** Bushing

**Replacing:** 2130510

**Servicing:** 2130, DM2130

**ID** 13.98, **OD** 18.00, **Length** 16.40



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## Armatures

### 24 V

**136517**# Armature

**Replacing:** 1320-073-00X0

**Servicing:** 0350-552-0311, 0350-552-0324, 0350-552-0328, 0350-552-0334, 0350-552-0338, 0350-552-0363, 0350-552-0367, 0350-552-0415

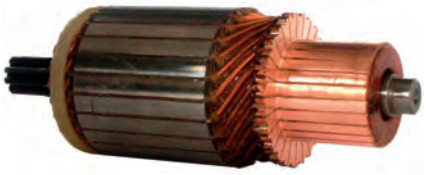
24 **V**, 5.5 **kW**, **Shaft length** 176.80, **Core thickness** 65.00, **No./teeth** 12

**138964** Armature

**Replacing:** 1320-097-00X0

**Servicing:** 0350-602-0118, 0350-602-0140, 0350-602-0149, 0350-602-0233, 0350-602-0240, 0350-602-0248, 0350-602-0250, 0350-602-0258

24 **V**, 6 **kW**, **Shaft length** 207.00, **Core thickness** 65.00, **No./teeth** 12

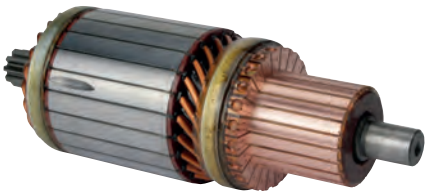


**234107**# Armature

**Replacing:** 1320-098-00X0

**Servicing:** 0350-502-0047, 0350-502-0057, 0351-502-0033, 0351-502-0042

24 **V**, 4.5 **kW**, **Shaft length** 170.00, **Core thickness** 58.00, **No./teeth** 8



**235787** Armature

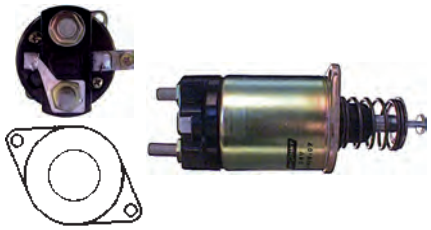
**Replacing:** 1320-121-00X0

**Servicing:** 0355-502-0110

24 **V**, 4.5 **kW**, **Shaft length** 164.30, **Core thickness** 53.91, **No./splines** 9, **No./teeth** 9

## Solenoids

### 24 V

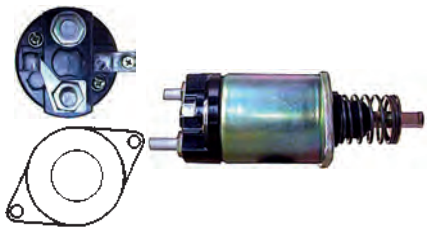


**136170** Solenoid

**Replacing:** 1350-097-00X9

**Servicing:** 0350-552-0310, 0350-552-0311, 0350-552-0320, 0350-552-0324, 0350-552-0328, 0350-552-0330, 0350-552-0334, 0350-552-0338

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 21.80, **OD** 65.20, **OD/cover** 64.75, **Total length** 195.45, **Height/B+** 25.10, **Width/kl. 50** 24.95, **Coil bolt** M10, **Coil bolt 2** 17.55, **No./terminals** 3
*Cap: HC-CARGO 234554.*

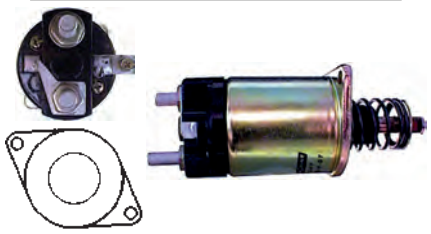


**136171** Solenoid

**Replacing:** 1350-101-00X9

**Servicing:** 0350-702-0224, 0350-702-0226

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.30, **OD** 64.00, **OD/cover** 64.65, **Total length** 203.25, **Height/B+** 24.40, **Width/kl. 50** 25.20, **Coil bolt** M10, **Coil bolt 2** 18.35, **No./terminals** 3
*Cap: HC-CARGO 234554.*

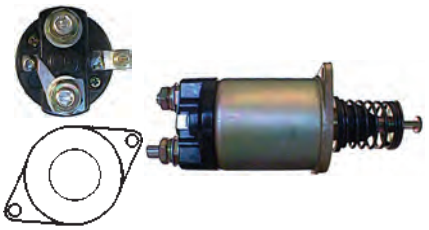


**136173** Solenoid

**Replacing:** 1350-098-00X9

**Servicing:** 0350-402-0240, 0350-402-0244, 0350-402-0247, 0350-502-0010, 0350-502-0019, 0350-502-0020, 0350-502-0024, 0350-502-0027

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.15, **OD** 64.00, **OD/cover** 64.35, **Total length** 193.45, **Height/B+** 25.00, **Width/kl. 50** 26.00, **Coil bolt** M10, **Coil bolt 2** 18.65, **No./terminals** 3
*Cap: HC-CARGO 234554.*



**136174** Solenoid

**Replacing:** 1350-101-11X9, 1350-101-11X8, 1350-101-10X9

**Servicing:** 0350-702-0141, 0350-702-0230, 0350-702-0234, 0350-702-0235, 0350-702-0240, 0350-702-0245, 0350-702-0249, 0350-702-0260

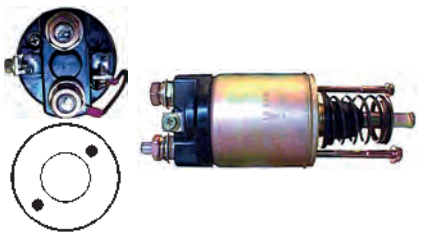
24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.30, **OD** 65.00, **OD/cover** 64.65, **Total length** 199.30, **Height/B+** 25.60, **Width/kl. 50** 24.10, **Coil bolt** M10, **Coil bolt 2** 18.55, **No./terminals** 3
*Cap: HC-CARGO 234554.*

**136522**# Solenoid

**Replacing:** 1350-076-00X9

**Servicing:** 0350-602-0016, 0350-602-0020, 23300-96508, 23300-97061

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.25, **OD** 65.00, **OD/cover** 64.80, **Total length** 192.80, **Height/B+** 23.70, **Width/kl. 50** 13.00, **Coil bolt** M10, **Coil bolt 2** 17.90, **No./terminals** 3



**136523** Solenoid

**Replacing:** 1350-079-10X9, 1350-079-01X9, 1350-079-0109

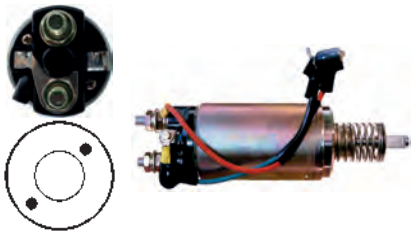
**Servicing:** 0350-552-0062, 0350-552-0063, 0350-552-0110, 0350-552-0211, 03500-552-0211, 28100-1443, 28100-1630

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.00, **OD** 63.85, **OD/cover** 64.30, **Total length** 195.00, **Height/B+** 24.30, **Width/kl. 50** 14.20, **Coil bolt** M10, **Coil bolt 2** 18.55, **No./terminals** 4
*Cap: HC-CARGO 234552.*



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

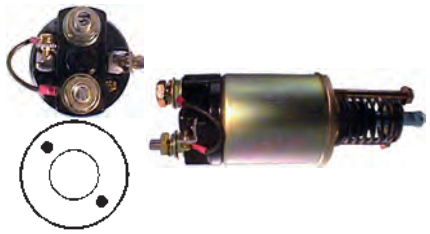


## 136540 Solenoid

**Replacing:** 1350-105-11X9, 1350-105-10X9, 1350-105-00X9

**Servicing:** 0351-702-0042, 0351-702-0073, 0351-702-0212, 0351-702-0224, 0351-702-0232, 0351-702-0243, 0351-702-0252, 0351-702-0292

24 **V**, **B+** M10, **ID/cover** 21.60, **OD** 69.90, **OD/cover** 64.90, **Total length** 253.90, **Height/B+** 26.80, **Coil bolt** M10, **Coil bolt 2** 29.80, **No./terminals** 4

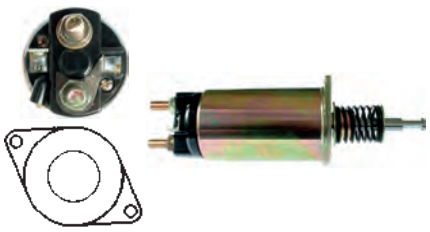


## 137280 Solenoid

**Replacing:** 1350-084-0119, 1350-083-20X9

**Servicing:** 0350-702-0024, 0350-702-0025, 0350-702-0060

24 **V**, **B+** M10, **Kl. 15a** 9.40, **Kl. 50** 9.40, **ID/cover** 22.20, **OD** 65.00, **OD/cover** 64.45, **Total length** 202.50, **Height/B+** 24.50, **Width/kl. 15a** 12.30, **Width/kl. 50** 12.40, **Coil bolt** M10, **Coil bolt 2** 17.85, **No./terminals** 4

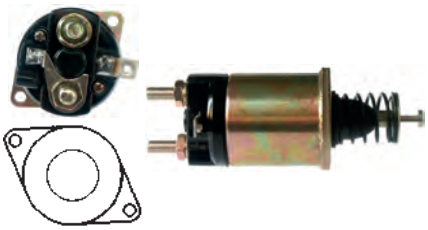


## 138967 Solenoid

**Replacing:** 1350-111-11X9, 1350-111-10X9, 1350-109-32X9, 1350-109-31X9

**Servicing:** 0351-702-0610, 0351-702-0612, 0351-702-0620, 0351-702-0622, 0351-702-0630, 0351-702-0632, 0351-702-0680, 0351-702-0682

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 21.60, **OD** 69.85, **OD/cover** 64.50, **Total length** 266.20, **Height/B+** 30.20, **Width/kl. 50** 25.95, **Coil bolt** M10, **Coil bolt 2** 27.85, **No./terminals** 3



## 234544 Solenoid

**Replacing:** 1350-114-02X9

**Servicing:** 0350-502-0047, 0351-502-0042

24 **V**, **B+** M10, **Kl. 50** 9.40, **ID/cover** 22.25, **OD** 64.70, **OD/cover** 64.85, **Total length** 190.80, **Height/B+** 27.85, **Width/kl. 50** 24.95, **Coil bolt** M10, **Coil bolt 2** 27.85, **No./terminals** 3

## 234662 Solenoid

**Replacing:** 1350-126-71X9, 1350-126-70X9, 1350-126-03X9, 1350-126-02X9

**Servicing:** 0350-502-0214, 0350-502-0219, 0350-502-0233, 0350-502-0244, 0350-502-0512

24 **V**, **B+** M8, **Kl. 50** 9.40, **ID/cover** 22.40, **OD** 52.20, **OD/cover** 44.75, **Total length** 180.50, **Height/B+** 21.85, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 22.95, **No./terminals** 3

## 333019 Solenoid

**Replacing:** 1350-121-00X9

**Servicing:** 0350-602-0233, 0350-602-0321

24 **V**, **B+** M10, **OD** 65.10, **Total length** 175.00, **No./terminals** 3

## Solenoid Parts

### Solenoid Caps

## 234552 Solenoid Cap

**Servicing:** 1350-079-01X9, 1350-079-10X9, 1350-084-01X9, 1350-084-10X9, 1350-121-00X9

**OD** 65.00, **No./terminals** 3

## 234554 Solenoid Cap

**Replacing:** 1359-063-00X9, 1359-063-00X8

**Servicing:** 0350-402-0247, 0350-502-0019, 0350-502-0027, 0350-502-0067, 0350-502-0077, 0350-552-0311, 0350-552-0328, 0350-552-0338

**OD** 65.15, **No./terminals** 3

*HC-CARGO 136170, 136171, 136173.*

### Moving Contacts

## 234551 Moving Contact

**Servicing:** 1350-079-01X9, 1350-079-10X9, 1350-084-01X9, 1350-084-10X9, 1350-084-11X9, 1350-084-20X9, 1350-097-00X9, 1350-101-00X9

**Shaft measurement** 31.85, **Thickness** 5.00

*Plate: 42.00x20.00x5.40 mm.*

## Brush Gears

## 136528 Brush Gear

**Replacing:** 1331-046-00X0, 1331-043-00X0

**Servicing:** 0350-702-0224, 0350-702-0234, 0350-702-0245, 0350-702-0265, 0350-702-0273, 0350-702-0284, 0350-702-0293, 0350-702-0314

**OD** 76.60

*Neg. brushes. Brush set: HC-CARGO 140828.*

## 136529 Brush Gear

**Replacing:** 1331-039-00X0

**Servicing:** 0350-552-0311, 0350-552-0324, 0350-552-0328, 0350-552-0334, 0350-552-0338, 0350-552-0363, 0350-552-0367, 0350-552-0415

**OD** 72.65

*Neg. brushes. Brush set: HC-CARGO 140829.*



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#Available while stock last, * Program development.

## Brush Sets

Pkg. 5

### 140823 Brush Set

**Replacing:** 2660-057-00X0

**Servicing:** 0350-552-0020, 0350-552-0030, 0350-552-0063, 0350-552-0110, 0350-552-0141, 0350-552-0211, 0350-602-0016, 0350-602-0037

24 **V**, **Length** 20.00, **Lead length** 37.50, **Height** 28.00, **Thickness** 10.00

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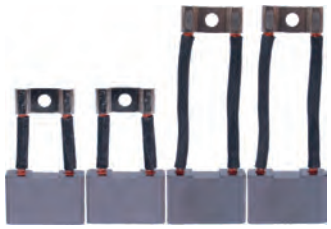

### 140824 Brush Set

**Replacing:** 2660-068-10X0, 2660-068-00X0

**Servicing:** 0351-702-0031, 0351-702-0042, 0351-702-0073, 0351-702-0212, 0351-702-0224, 0351-702-0232, 0351-702-0243, 0351-702-0252

24 **V**, **Length** 22.00, **Lead length** 73.00, **Lead length 2** 37.00, **Height** 35.00, **Thickness** 10.00

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### 140828 Brush Set

**Replacing:** 2660-074-00X7

**Servicing:** 0350-702-0141, 0350-702-0150, 0350-702-0180, 0350-702-0226, 0350-702-0235, 0350-702-0249, 0350-702-0265, 0350-702-0273

24 **V**, **Length** 22.50, **Lead length** 61.00, **Lead length 2** 37.50, **Height** 35.00, **Thickness** 10.00

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### 140829 Brush Set

**Replacing:** 2660-071-00X7

**Servicing:** 0350-552-0311, 0350-552-0328, 0350-552-0338, 0350-552-0367, 0350-602-0092, 0350-602-0118, 0350-602-0139, 0350-602-0212

24 **V**, **Length** 20.00, **Lead length** 39.50, **Height** 28.00, **Thickness** 10.00

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## Bushings

Pkg. 10

### 140520 Bushing

**Replacing:** 2620-011-00X0, 2602-000-00X0

**ID** 19.00, **OD** 23.00, **Length** 19.00

---

Pkg. 5

### 140835 Bushing

**Replacing:** 2620-094-00X9

**Servicing:** 0350-402-0020, 0350-402-0116, 0350-402-0123, 0350-402-0133, 0350-402-0217, 0350-402-0228, 0350-402-0247, 0350-402-0251

**ID** 17.10, **OD** 19.05, **Length** 19.96
*w/ teflon.*

---



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Brush Sets

**140574** Brush Set

**Replacing:** IM0006

12 **V**, **Length** 15.00, **Lead length** 35.00, **Height** 10.00, **Thickness** 7.00



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#Available while stock last, * Program development.

## Drives

### Drive Parts

#### Various

Pkg. 10

**234254**# Stop Collar
**ID** 12.55, **OD** 28.65, **Height** 9.75
*Drive: HC-CARGO 234122.*

## Brush Sets

**141210** Brush Set
**Replacing:** 33849
**Servicing:** 33835
12 **V**, **Length** 16.80, **Lead length** 35.00, **Lead length 2** 41.45, **Height** 9.50, **Thickness** 6.30

**141211** Brush Set
**Replacing:** 32572
12 **V**, **Length** 14.20, **Lead length** 51.00, **Height** 9.40, **Thickness** 7.90

## Bushings

Pkg. 10

**141214** Bushing
**Replacing:** STC7100, 141214
**ID** 15.80, **OD** 20.00, **Length** 12.55

Pkg. 10

**141215** Bushing
**Replacing:** STC7101, 141215
**ID** 10.00, **OD** 19.05, **Length** 12.25

Pkg. 10

**141216** Bushing
**Replacing:** STC7102, 141216
**Servicing:** 33605, 33835
**ID** 12.70, **OD/collar** 19.10, **OD** 15.80, **Length** 11.40, **Height/collar** 1.72

Pkg. 10

**141217** Bushing
**Replacing:** STC7103, 141217
**Servicing:** 33835
**ID** 9.60, **OD/collar** 17.75, **OD** 12.70, **Length** 9.62, **Height/collar** 1.63



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#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

## Armatures

### 12 V

**234213** Armature

**Replacing:** AT13855, 1385540AT30SM, 1385540

**Servicing:** 1077740DV30SM, 1122940-M030SM, 1799640MO30SM, 2030940MO30SM, 4367040MO30SM, 4367140MO30SM, 4367240MO30SM, 4769540MO30SM

12 **V**, **Shaft length** 198.50, **Core thickness** 55.20, **No./splines** 6, **Rotation** ACR

---

**234217**[#] Armature

**Replacing:** 5667340, 5663540AT30SM

12 **V**, **Shaft length** 168.10, **Core thickness** 55.25, **No./splines** 7, **Rotation** ACR

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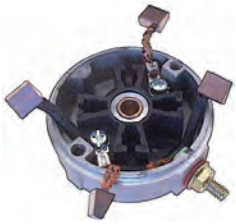
## C.E. Brackets



**136655** C.E. Bracket

**Replacing:** CP551353AS, CP20716, CP20250, CP01456, 4743140CP30SM, 2071640CP30SM, 2025040CP30SM, 1693240CP30SM

**Servicing:** 0139940M030SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 0599440-M030SM, 0599540MO30SM, 0797740MO30SM, 0996140MO30SM

*12 V. w/ brushes.*

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**136660** C.E. Bracket

**Replacing:** CP551406AS, CP551406A, 5703840CP30SM, 5668140CP30SM, 1822140CP30SM, 1127040CP30SM, 0261240CP30SM

**Servicing:** 0203740SM30SM, 0255640-MO30SM, 157440M030SM, 1574440M030SM, 1574540MO30SM, 1819040MO30SM, 4438540M030SM, 5059240MO30SM

*12 V. w/ brushes.*

---

**137045** C.E. Bracket

**Replacing:** CP48749, CP48719, CP48231, CP48230, CP48229, CP17188, 4872940SC-30SM, 4872940CP30SM, 4872940

**Servicing:** 1065221MO30SM, 1147840MO30SM, 4820140M030SM, 4820440M030SM, 4820540MO30SM, 4836940MO30SM, 4838740MO30SM, 4886540MO30SM

*12 V. w/ brushes.*

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**231004** C.E. Bracket

**Replacing:** CP18197A3, 566864CP30SM, 5668640C930SM, 2136140C930SM, 1819740CP30SM

**Servicing:** 1819140M030SM, 4733040MO30SM, 56666440M030SM, 56666640M030SM, SM18191

*12 V. w/ brushes.*

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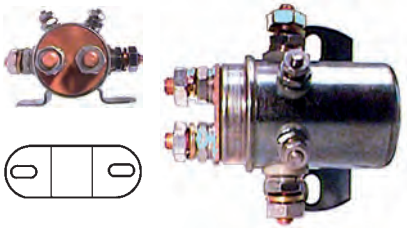
## Solenoids

### 12 V



**138068** Solenoid

**Replacing:** SO51189

12 **V**, 200 **Amp**, **Intermittent load** 900 Amp., **B+** 5/16" UNF, **Kl. 50** 10-32 UNF, **OD** 42.00, **Total length** 89.35, **Height/B+** 12.00, **Width/kl. 50** 8.00, **Coil bolt** 5/16" UNF, **Coil bolt 2** 12.00, **Seconds** 5, **No./terminals** 6
*Silver contact.*

---

### 24 V

**230697** Solenoid

**Replacing:** 6095740

24 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 22.60, **OD** 53.20, **OD/cover** 44.45, **Total length** 166.30, **Height/B+** 22.20, **Width/kl. 50** 24.45, **Coil bolt** M8, **Coil bolt 2** 22.20, **No./terminals** 3

---

## Drives

**135400** Drive

**Replacing:** DV70175, DV18019, 7017540DV30SM, 7017540, 1801940DV30SM, 1801940

**Servicing:** 0139940M030SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 0319940M030SM, 0996340MO30SM, 1065221MO30SM, 1097028M030SM

**ID** 12.85, **OD** 31.75, **Total length** 36.75, **Splines A** 6, **No./teeth** 10, **Rotation** ACR
*Bronze.*

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[#]Available while stock last, * Program development.

## 135401# Drive

**Replacing:** DV16375, 1637540DV30SM

**Servicing:** 0255640-MO30SM, 4411940-M030SM, SM02556, SM44119, SM48510

**ID** 12.85, **OD** 43.00, **OD/housing** 41.30, **Total length** 36.40, **Splines A** 6, **No./teeth** 11, **Rotation** ACR
*Bronze*.

## 135402 Drive

**Replacing:** DV70104, DV47871, DV08154, 7010440DV30SM, 4787140DV30SM, 0815440DV30SM

**Servicing:** 0814240M030SM, 4820440M030SM, 4820540MO30SM, 4886540MO30SM, 5275640MO30SM, 5672740MO30SM, SM08142, SM14916, SM17183

**ID** 12.15, **OD** 27.00, **Total length** 35.65, **Splines A** 6, **No./teeth** 8, **Rotation** ACR
*Bronze*.

## 135403 Drive

**Replacing:** DV02557, 0255740DV30SM

**Servicing:** 0996140MO30SM, SM09961, SMH12B31, SMH12B37

**ID** 12.15, **OD** 29.00, **OD/housing** 41.75, **Total length** 35.00, **Splines A** 6, **No./teeth** 9, **Rotation** ACR
*Bronze*.

## 135404 Drive

**Replacing:** DV20346, 2034640DV30SM

**Servicing:** 1122940-M030SM, 1574440M030SM, 1574540MO30SM, 1799640MO30SM, 5059240MO30SM, 5071240M030SM, SM002610, SM02610, SM10629

**ID** 13.00, **OD** 36.55, **OD/housing** 41.80, **Total length** 35.50, **Splines A** 6, **No./teeth** 9, **Rotation** ACR

## 135406# Drive

**Replacing:** DV44192, 4419240DV30SM

**Servicing:** 4412040M030SM, 5273440M030SM, SM44120

**ID** 12.85, **OD** 29.00, **OD/housing** 41.75, **Total length** 36.85, **Splines A** 6, **No./teeth** 9, **Rotation** ACR
*Bronze*.

## 135408 Drive

**Replacing:** DV18200, 1820040DV30SM

**Servicing:** 1819040-MO30SM, 1819040MO30SM, 1819140M030SM, 2134940-M030SM, 2134940MO30SM, 5213140-M030SM, 5213140MO30SM

**ID** 12.15, **OD** 29.00, **OD/housing** 41.50, **Total length** 36.55, **Splines A** 6, **No./teeth** 9, **Rotation** ACR
*Bronze*.

## 135409 Drive

**Replacing:** DV551067AS, DV551067A, DV551067, DV47338, 5695KT30SM, 5695340KT30SM, 4733840DV30SM

**Servicing:** 0599440-M030SM, 0599540MO30SM, 1570140MO30SM, 1635340-M030SM, 4733040MO30SM, 5129640MO30SM, 5665740MO30SM

**ID** 10.45, **OD** 32.25, **Total length** 28.00, **Splines A** 7, **No./teeth** 10, **Rotation** ACR

## 135410 Drive

**Replacing:** DV551092AS, DV551092A

**Servicing:** SMH12A102, SMH12A201, SMH12A202, SMH13A102, SMH13A201, SMH13A202, SMH13A62

**ID** 10.50, **OD** 32.20, **OD/housing** 41.75, **Total length** 30.00, **Splines A** 4, **No./teeth** 10, **Rotation** ACR
*Bronze*.

## 230399 Drive Kit

**Replacing:** 6024140GE30SM

**Servicing:** 6013840MO30SM, 6019440MO30SM

**OD** 40.00, **Total length** 19.50, **No./teeth** 16

## Drive Parts

### Pinion

## 139395 Pinion

**Replacing:** 280104

**ID** 20.50, **OD** 41.00, **Height** 11.50, **No./splines** 2, **No./teeth** 16



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# Brush Gears

## Brush Gear Parts

### Brush Holders

**230402** Brush Box

**Replacing:** BH551008S, 1868540

**Servicing:** 0139940M030SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 1065221MO30SM, 1791640MO30SM, 1791740MO30SM, 2020740MO30SM

**OD** 44.00

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# Brush Sets

**140714** Brush Set

**Replacing:** KT20249, KT10900, 6073540KT30SM, 5716740KT30SM, 5265440KT30SM, 4793640KT30SM, 2024940KT30SM

**Servicing:** 0139940M030SM, 0196540MO30SM, 0203740SM30SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 0255640-MO30SM, 0319940M030SM

12 **V**, **Length** 11.10 (0.437"), **Lead length** 70.00, **Lead length 2** 34.44, **Height** 12.70 (0.500"), **Thickness** 7.90 (0.311")

*w/ bushings: HC-CARGO 140747.*

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**140747** Brush Set

**Servicing:** SMH12A102

12 **V**, **Length** 11.10 (0.437"), **Lead length** 73.50, **Lead length 2** 37.00, **Height** 12.70 (0.500"), **Thickness** 7.90 (0.311")

---

**140749** Brush Set

**Replacing:** KT47601, KT21368, 4760140KT30SM, 2136840KT30SM

**Servicing:** 1819140M030SM, 2134940MO30SM, 4367240MO30SM, 4367340MO30SM, 4733040MO30SM, 5082740MO30SM, 5129640MO30SM, 5213240MO30SM

12 **V**, **Length** 11.10 (0.437"), **Lead length** 73.00, **Lead length 2** 37.00, **Height** 12.70 (0.500"), **Thickness** 7.90 (0.311")

---

**141053** Brush Set

**Replacing:** 391705

12 **V**, **Length** 14.90 (0.587"), **Lead length** 43.50, **Height** 9.40 (0.370"), **Thickness** 6.20 (0.244")

---

# Bushings

Pkg. 10

**141226** Bushing

**Replacing:** BG661011S, 5664940

**ID** 13.20, **OD** 19.10, **Length** 11.90

---

Pkg. 10

**141227** Bushing

**Replacing:** BG3037S

**Servicing:** 0139940M030SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 0255640-MO30SM, 0261040MO30SM, 0599440-M030SM

**ID** 8.50, **OD** 11.70, **Length** 10.00

---

Pkg. 10

**141228** Bushing

**Replacing:** BG3038S

**Servicing:** 0139940M030SM, 0228940MO30SM, 0246540MO30SM, 0246640MO30SM, 0255640-MO30SM, 0261040MO30SM, 0599440-M030SM

**ID** 17.10, **OD/collar** 25.30, **OD** 20.10/25.30, **Length** 13.50, **Height/collar** 1.55

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# Sundry Parts

## Various

**231162** Stop Collar Kit

**Replacing:** KT18900, 5695240KT30SM, 1890040KT30SM, 1890040

**Servicing:** 1819040MO30SM, 1819140M030SM, 2134940MO30SM, 5213140MO30SM, 5213240MO30SM, 5666240-MO30SM, 5666240MO30SM

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## Armatures

### 12 V

**130241**[#] Armature
**Replacing:** NE034, 077771
**Servicing:** D8E117, D8E133, D8E137, D8E139, D8E140, D8E147, D8E151, D9E11, D9E17, D9E19, D9E28, D9E7, D9E9
12 **V**, 0.9/1.05/1.15 **kW**, **Shaft length** 250.35, **Core thickness** 56.00, **No./splines** 12, **Rotation** CR

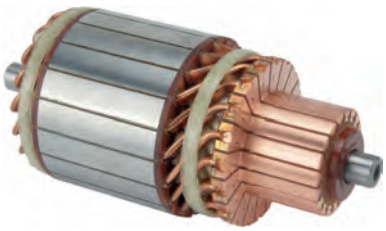
**130949**[#] Armature
**Replacing:** NE296
**Servicing:** 534002A, 534003A, 534003B, 534003C, 534004A, 534004B, 534005A, 534005B, 534005C
12 **V**, 0.8/1 **kW**, **Shaft length** 210.00, **Core thickness** 60.00, **No./splines** 9, **Rotation** CR

**131069** Armature
**Replacing:** NE040, 095425
**Servicing:** D11E153, D11E153T
12 **V**, 2.9 **kW**, **Shaft length** 330.00, **Core thickness** 75.40, **No./splines** 12, **Rotation** CR

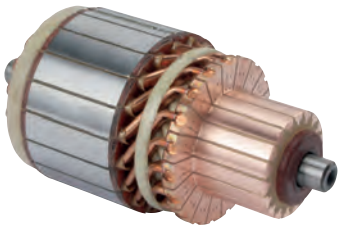
**131094**[#] Armature
**Replacing:** NE288
**Servicing:** 532002A, 532002B, 532002C, 532003A, 532003B, 532004A, 532004B, 532004C, 532009A, 532009B, 532010A, 532010B, 532018A
12 **V**, 0.8/0.95/1 **kW**, **Shaft length** 244.50, **Core thickness** 56.50, **No./splines** 11, **Rotation** CR

**131190**[#] Armature
**Replacing:** NE050, 099741
**Servicing:** D11E172, D11E272
12 **V**, 2.5 **kW**, **Shaft length** 282.90, **Core thickness** 75.65, **No./splines** 9, **Rotation** CR

**131813** Armature
**Replacing:** NE053, 102380, 101581
**Servicing:** D9E100, D9E101, D9E108, D9E123, D9E124, D9E125, D9E127, D9E129, D9E137, D9E138, D9E200, D9E237, D9E238, D9E276, D9E278
12 **V**, 1.05/1.2 **kW**, **Shaft length** 188.70, **Core thickness** 60.00, **No./splines** 9, **Rotation** CR

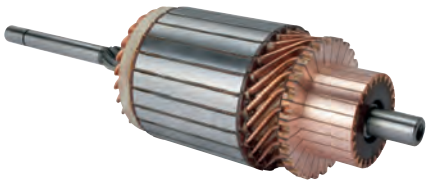


**132027** Armature
**Replacing:** 594148, 182175, 182049
**Servicing:** D9R105, D9R1050, D9R106, D9R116, D9R118, D9R119, D9R122, D9R126, D9R134, D9R135, D9R139, D9R142, D9R144, D9R149, D9R73
12 **V**, 2/2.2/3.1 **kW**, **Shaft length** 137.70, **Core thickness** 60.00, **Rotation** CR
*Gear: HC-CARGO 135867.*



**132028** Armature
**Replacing:** 594028, 192053, 182053
**Servicing:** D9R112, D9R121, D9R84, D9RP256
12 **V**, 2/3.1 **kW**, **Shaft length** 128.80, **Core thickness** 60.00, **No./teeth** 15, **Rotation** CR
*Gear: HC-CARGO 135867.*

**132173**[#] Armature
**Replacing:** NE046, 098356
**Servicing:** D11E169, D11E176
12 **V**, 2.8/2.9 **kW**, **Shaft length** 319.20, **Core thickness** 75.50, **No./splines** 9, **Rotation** CR



**132199**[#] Armature
**Replacing:** NE054, 101649
**Servicing:** D11E177
12 **V**, 1.4 **kW**, **Shaft length** 291.50, **Core thickness** 76.20, **No./splines** 9

**132486** Armature
**Replacing:** TM200B01601B
**Servicing:** HK988300, MG120413, MG120445, MG122404, MG122423, MG122433, TM000A06101, TM000A06901, TM000A14901
12 **V**, 2 **kW**, **Shaft length** 152.00, **Core thickness** 53.20, **No./teeth** 9, **Rotation** CR/ACR
**Alternative no.:** F032132486

**132618** Armature
**Replacing:** 101923
**Servicing:** D9E31, D9E32, D9E40, D9E45, D9E53, D9E64, D9E75, D9E82, D9E87, D9E95
12 **V**, 1.05/1.2 **kW**, **Shaft length** 203.50, **Core thickness** 60.00, **No./splines** 9, **Rotation** CR

## 133136 Armature

**Replacing:** NE042, 095981

**Servicing:** D11E142, D11E159, D11E165

12 **V**, 1.95 **kW**, **Shaft length** 280.50, **Core thickness** 75.90, **No./splines** 12, **Rotation** CR

## 133221 Armature

**Replacing:** NE295

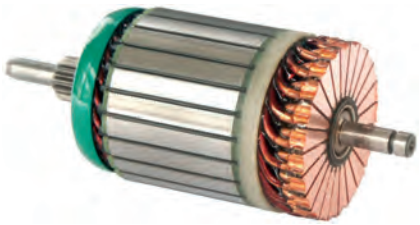
**Servicing:** 532012A, 532012B, 532021A, 532023A

12 **V**, 0.75 **kW**, **Shaft length** 219.50, **Core thickness** 56.60, **No./splines** 9, **Rotation** ACR

## 133970 Armature

**Replacing:** NC082, 092999

12 **V**, 3.5 **kW**, **Shaft length** 328.00, **Core thickness** 75.00, **No./splines** 12, **Rotation** CR



## 134513 Armature

**Replacing:** 594526

**Servicing:** D6RA10, D6RA100, D6RA11, D6RA12, D6RA13, D6RA132, D6RA133, D6RA15, D6RA16, D6RA162, D6RA165, D6RA168, D6RA17, D6RA18

12 **V**, 1.1 **kW**, **Shaft length** 111.90, **Core thickness** 44.20, **No./teeth** 13, **Rotation** CR/ACR

## 134736 Armature

**Replacing:** 2EM0689H

**Servicing:** M000A01901, M000A0240Z, M35216, M39376, M39646, M43196, MC107023, MC108024, MC109015, MC109018, MC109021, MC109025

12 **V**, 0.8 **kW**, **Shaft length** 183.10, **Core thickness** 60.00, **No./splines** 8, **Rotation** CR

## 134935 Armature

**Replacing:** 074771

**Servicing:** D11E131, D11E146

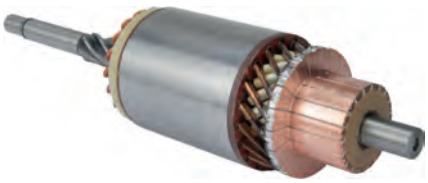
12 **V**, 2.9 **kW**, **Shaft length** 325.50, **Core thickness** 75.90, **No./splines** 6, **Rotation** CR

## 135387 Armature

**Replacing:** NE824, 594344, 594278, 594112, 182591

**Servicing:** 1250128, D7R1, D7R11, D7R12, D7R127, D7R13, D7R14, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19, D7R2, D7R20, D7R22, D7R23

12 **V**, 1.4-2.7 **kW**, **Shaft length** 141.00, **Core thickness** 50.00, **No./teeth** 16, **Rotation** CR/ACR



## 136427 Armature

**Replacing:** 074653

**Servicing:** D11E119, D11E119T, D11E129, D11E129T, D11E137, D11E141, D11E154

12 **V**, 2.9 **kW**, **Shaft length** 337.50, **Core thickness** 75.65, **No./splines** 6, **Rotation** CR

## 136881 Armature

**Replacing:** 095972

**Servicing:** D11E158, D11E160

12 **V**, 2.6 **kW**, **Shaft length** 305.40, **Core thickness** 75.60, **No./splines** 12, **Rotation** CR

## 137291 Armature

**Replacing:** 075371

**Servicing:** D11E120

12 **V**, 2.6 **kW**, **Shaft length** 305.50, **Core thickness** 75.70, **No./splines** 6, **Rotation** CR

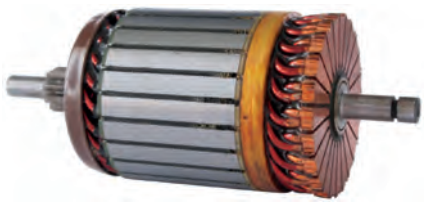
## 139434 Armature

**Replacing:** 594519

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E27, D7E29, D7E30, D7E31, D7E32, D7E38

12 **V**, 0.85/1 **kW**, **Shaft length** 155.50, **Core thickness** 50.00, **No./splines** 10

*Can only be used w/ drive: HC-CARGO 139477.*



## 139593 Armature

**Replacing:** 594531, 594529

**Servicing:** D6RA100, D6RA105, D6RA107, D6RA115, D6RA12, D6RA137, D6RA138, D6RA141, D6RA15, D6RA161, D6RA163, D6RA168, D6RA185

12 **V**, 1.1 **kW**, **Shaft length** 111.92, **Core thickness** 44.30, **No./teeth** 8, **Rotation** CR

**Alternative no.:** F032139593



O.E.M. names and numbers are used for reference purposes only.

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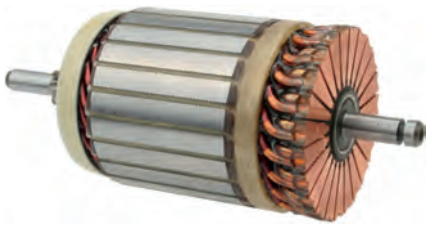
#Available while stock last, * Program development.



## 230250 Armature

**Replacing:** 594530, 594528

**Servicing:** 626002, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA108, D6RA109, D6RA110, D6RA114, D6RA115, D6RA15, D6RA167

12 **V**, 1.1 **kW**, **Shaft length** 112.00, **Core thickness** 44.00, **No./teeth** 7

## 233767 5★ Armature

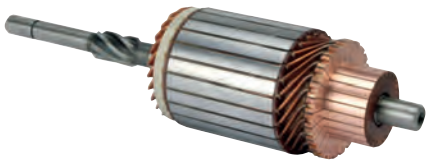
**Manufacturer:** Valeo

**Replacing:** 594518

**Servicing:** 105119C, D7E1, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E30, D7E31, D7E32, D7E38, D7E39

12 **V**, 0.85 **kW**, **Shaft length** 155.50, **Core thickness** 50.00, **No./splines** 10, **Rotation** CR

*Can only be used w/ drive: HC-CARGO 239359.*

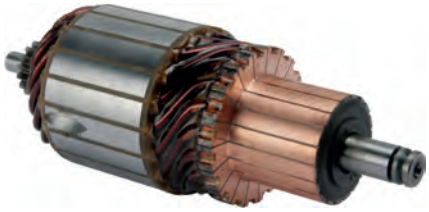


## 235790 Armature

**Replacing:** NE018, 58071

**Servicing:** D11E102, D11E111, D11E135, D11E140, D11E144, D11E61, D11E70, D11E74, D11E75, D11E78, D11E84, D11E86, D11E93, D11E95

12 **V**, **Shaft length** 310.50, **Core thickness** 75.90, **No./splines** 6, **Rotation** CR



## 235870 Armature

12 **V**, 1.8 **kW**, **Shaft length** 145.50, **Core thickness** 49.70, **No./teeth** 16

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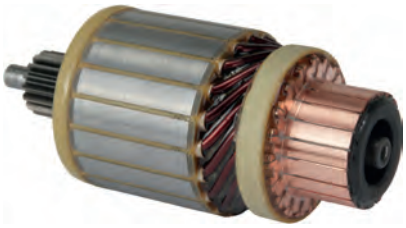
## 236271 Armature

**Replacing:** 594621, 594471

**Servicing:** 190895, D7G11, D7G3, D7G4, D7G6, D7GS17, D7GS7, TS18E7

12 **V**, 2 **kW**, **Shaft length** 118.60, **Core thickness** 49.72, **No./teeth** 13



## 236358 Armature

**Replacing:** 594781, 594683

**Servicing:** 191335, 458389, D7G14, D7G15, D7G20, D7G26, D7GS10, D7GS8, D7GS9, TS18E1, TS18E13, TS18E3, TS18E33, TS18E331, TS18ER121

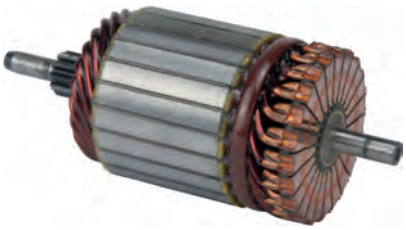
12 **V**, 2 **kW**, **Shaft length** 118.55, **Core thickness** 49.65, **No./teeth** 16, **Rotation** CR/ACR

## 236611 Armature

**Replacing:** 594673, 236611

**Servicing:** D6GS11, D6GS12, D6GS12M, TS12ER20

12 **V**, 1 **kW**, **Shaft length** 111.85, **Core thickness** 44.30, **No./teeth** 13, **Rotation** CR

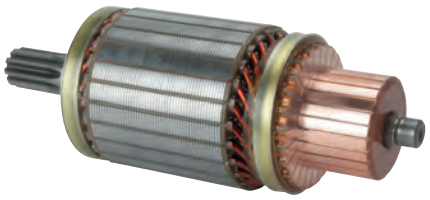


## 236796 Armature

**Replacing:** 594650, 236796, 236653

**Servicing:** D6G1, D6G32, D6G321, D6G332, D6GS11, D6GS12M, D6GS19, TS12E200, TS12E30, TS12E9, TS12E901, TS12E902, TS12ER19, TS14E11

12 **V**, 1.3 **kW**, **Shaft length** 111.90, **Core thickness** 44.25, **No./teeth** 10, **Rotation** CR



## 237085 Armature

**Servicing:** HQ808670, MG122202, MG122433, TM000A18601, TM000A23601, TM000V23601

12 **V**, 2.2 **kW**, **Shaft length** 152.00, **Core thickness** 53.50, **No./splines** 9

## 238767 Armature

**Replacing:** 594721

**Servicing:** TS10E1, TS10E11, TS10E3, TS10E4, TS10E5, TS8E1, TS8E2, TS8E3, TS8E4, TS8E5, TS8E6

12 **V**, **Shaft length** 155.50, **Core thickness** 50.00, **No./splines** 10, **Rotation** CR

## 333776 Armature

**Replacing:** 595581

**Servicing:** FS10E10, FS10E3

12 **V**, **Shaft length** 156.20, **Core thickness** 53.90, **No./splines** 4

### 24 V

## 132956 Armature

**Replacing:** 106062

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE

24 **V**, 8.8 **kW**, **Shaft length** 432.90, **Core thickness** 84.85, **No./splines** 19, **Rotation** CR/ACR

**231466** Armature

**Replacing:** 594192

**Servicing:** D13HP701, D13HP702, D13HP703, D13HP704, D13HP705, D13HP709

24 **V**, 7.7 **kW**, **Shaft length** 433.00, **Core thickness** 85.00, **No./splines** 19, **Rotation** CR

**233697** Armature

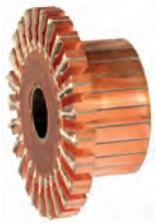
**Replacing:** NE936, 594219

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP608, D13HP609, D13HP613

24 **V**, 6.6 **kW**, **Shaft length** 397.00, **Core thickness** 84.80, **No./splines** 19

## Armature Parts

### Various



**B134597**# Commutator

**Replacing:** B134597

**Bar dist.** 2.90, **Bar cross dist.** 48.10, **ID** 17.00, **ID/bar lane** 45.90, **OD** 70.15, **Bar length** 11.10, **Height/bar** 6.25, **Height/bar lane** 23.30, **Total height** 31.90, **No./bars** 25

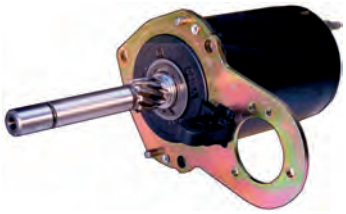
**B234458**# Commutator

**Replacing:** B234458

**Servicing:** 594219

**Bar dist.** 3.25, **Bar cross dist.** 58.90, **ID** 21.40, **ID/bar lane** 55.90, **OD** 83.30, **Bar length** 12.00, **Height/bar** 8.10, **Height/bar lane** 28.70, **Total height** 47.70, **No./bars** 27

## Gear set



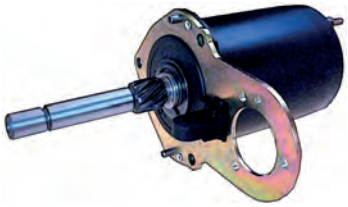
**133079** Gear Set

**Replacing:** 594237, 594234, 594232, 594207, 594151, 594105, 594021, 594019, 594015

**Servicing:** D6RA10, D6RA12, D6RA13, D6RA132, D6RA141, D6RA16, D6RA18, D6RA20, D6RA22, D6RA23, D6RA26, D6RA30, D6RA32, D6RA33

12 **V**, 1.1 **kW**, **Oil sealed** No, **Waterproof** No

*Outer gear plate: HC-CARGO 133954.*



**136908** Gear Set

**Replacing:** 594024

**Servicing:** D6RA20, D6RA21, D6RA42, D6RA43, D6RA44

12 **V**, 1/1.3 **kW**, **Rotation** ACR

**231072**# Gear Set

**Replacing:** 594363

**Servicing:** D6RA181, D6RA81

12 **V**, 1.1 **kW**

## Yokes w/ magnets

### 12 V

**137399** Yoke

**Replacing:** 594535, 594534

**Servicing:** 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA108, D6RA109, D6RA110, D6RA114, D6RA115, D6RA12

12 **V**, 1.1 **kW**, **OD/middle** 63.55, **Length** 96.25, **Brush gear** w/o, **Magnets** w/

**230020** Yoke ( A.C.R.)

**Servicing:** D6RA42, D6RA43

12 **V**, **OD/middle** 63.40, **Length** 96.25, **Rotation** ACR, **Brush gear** w/o, **Magnets** w/

**236364** Yoke

**Replacing:** 594680, 236364

**Servicing:** 458389, D7GS10, D7GS8, D7GS9, TS18E1, TS18E3, TS18ER121, TS18ER123, TS18ER20

12 **V**, 2 **kW**, **OD/middle** 74.50, **Length** 37.80, **Rotation** ACR, **Brush gear** w/o

## Field Cases

**135392** 5★ Field Case

**Manufacturer:** Valeo

**Replacing:** NE845, 594305, 594276, 594115

**Servicing:** D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R2, D7R20, D7R22, D7R24, D7R25, D7R26, D7R27

12 **V**, 1.4/1.7 **kW**, **OD/middle** 76.30, **Length** 119.35, **Brush gear** w/

*Field coil: HC-CARGO 138857.*

**139985** 5★ Field Case

**Manufacturer:** Valeo

**Replacing:** 594354, 594277

**Servicing:** 188839, D7R19, D7R23, D7R28, D7R281, D7R34, D7R36, D7R37, D7R40, D7R43, D7R46, D7R48, D7R49, D7R61, D7R64, D7RP204

12 **V**, 2/2.2 **kW**, **OD/middle** 76.20, **Length** 116.15, **Brush gear** w/

*Field coil: HC-CARGO 233853.*



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#Available while stock last, * Program development.

## 231476 Field Case

**Replacing:** 594523, 594522, 594478, 594477

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32

12 **V**, 0.85/1 **kW**, **OD/middle** 78.30, **Length** 44.50, **Brush gear** w/

*Brush gear: HC-CARGO 139224. Brush set: HC-CARGO PSX1554.*

## 234386 5★ Field Case

**Manufacturer:** Valeo

**Replacing:** 594394

**Servicing:** D7R47, D7RS129, D7RS130, D7RS131, D7RS29, D7RS30, D7RS301, D7RS31

12 **V**, 2 **kW**, **OD/middle** 76.20, **Length** 116.50, **Rotation** ACR, **Brush gear** w/

# Field Coils

## 12 V

## 131127 Field Coil

**Replacing:** NE092, 102101, 101061, 099382

**Servicing:** D9E100, D9E102, D9E131, D9E138, D9E200, D9E238, D9E300, D9E31, D9E32, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49, D9E51

12 **V**, 1.05 **kW**, **Height** 80.65, **Width** 197.40, **Internal height** 48.65, **Inner width** 24.20

## 132108# Field Coil

**Replacing:** NE103, 104150

**Servicing:** D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922

12 **V**, 2.15 **kW**, **Height** 110.65, **Internal height** 78.35, **Inner width** 25.00

## 133167 Field Coil

**Replacing:** 182201, 099745

**Servicing:** D11E172, D11E272

12 **V**, 2.5 **kW**, **Height** 131.20, **Width** 268.25, **Internal height** 85.70, **Inner width** 26.00

## 136320 Field Coil

**Replacing:** 594240, 594157, 544059, 182498, 182051

**Servicing:** D9R105, D9R1050, D9R106, D9R116, D9R118, D9R119, D9R122, D9R126, D9R134, D9R135, D9R139, D9R142, D9R144, D9R149, D9R73

12 **V**, 2/2.2/3.1 **kW**, **Height** 85.00, **Width** 104.50, **Internal height** 47.25, **Inner width** 23.50

## 136428 Field Coil

**Replacing:** 074077

**Servicing:** D11E119, D11E119T, D11E129, D11E129T, D11E131, D11E137, D11E141, D11E146, D11E154, D11E155, D11E169

12 **V**, 2.9 **kW**, **Height** 119.45, **Internal height** 86.75, **Inner width** 26.70

## 137289 Field Coil

**Replacing:** 073315

**Servicing:** D11E118, D11E120, D11E158, D11E160

12 **V**, 2.6 **kW**, **Height** 101.50, **Internal height** 64.15, **Inner width** 26.15

## 138857 Field Coil

**Replacing:** 182594

**Servicing:** D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R2, D7R20, D7R24, D7R25, D7R26, D7R27, D7R3

12 **V**, 1.4/1.7 **kW**, **Height** 60.15, **Internal height** 31.15, **Inner width** 14.30

*Yoke: HC-CARGO 135392.*

## 235789 Field Coil

**Replacing:** 97895

**Servicing:** D11E102, D11E111, D11E140, D11E144, D11E61, D11E70, D11E74, D11E75, D11E77, D11E93, D11E95, D11E97

12 **V**, 3 **kW**, **Height** 128.45, **Width** 251.00, **Internal height** 85.00, **Inner width** 25.50

## 24 V

## 137957# Field Coil

**Replacing:** 182039

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE

24 **V**, 8.8 **kW**, **Height** 165.50, **Internal height** 110.90, **Inner width** 30.50



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#Available while stock last, * Program development.

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**230599** 5★ Field Coil
**Manufacturer:** Valeo
**Replacing:** 594195
**Servicing:** D13HP701, D13HP702, D13HP703, D13HP705, D13HP709
24 **V**, 7.7/8 **kW**, **Height** 167.45, **Width** 306.80, **Internal height** 112.60, **Inner width** 27.85

**230733** Field Coil
**Replacing:** 594221
**Servicing:** D13HP601, D13HP605, D13HP607, D13HP608, D13HP609, D13HP613
24 **V**, 6.6/7.2 **kW**, **Height** 145.00, **Internal height** 89.30, **Inner width** 29.15

## C.E. Brackets

**137219** C.E. Bracket
**Replacing:** TM009C02001Z
**Servicing:** MG120413, MG122404, MG122433, MG232415, TM000A06101, TM000A06901
**ID** 76.50

**230032** 5★ C.E. Bracket
**Manufacturer:** Valeo
**Replacing:** 594253, 594130, 594129
**Servicing:** D6RA10, D6RA100, D6RA107, D6RA110, D6RA12, D6RA13, D6RA132, D6RA133, D6RA141, D6RA15, D6RA16, D6RA161, D6RA162, D6RA163
**ID** 62.30
*Contains: Brush set: HC-CARGO PSX144-145K. Brush gear: HC-CARGO 133647. Gasket: HC-CARGO 134106.*

**230214** C.E. Bracket
**Servicing:** D9R105, D9R118, D9R121, D9R122, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99

**231000** C.E. Bracket
**Replacing:** 2EM0578E
**Servicing:** M000A01901, M000A0240Z, M04686, M35216, M39376, M39646, M43196, MC107023, MC108024, MC108027, MC108030, MC109011
**ID** 84.50

**231354** C.E. Bracket
**Servicing:** 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA114, D6RA115, D6RA12, D6RA13, D6RA137, D6RA138

**233914**# C.E. Bracket
**Replacing:** 73726N
**Servicing:** D11E122, D11E122T
**OD** 116.35, **Height** 31.10

**235187** C.E. Bracket
**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32

## D.E. Brackets

**135485** D.E. Bracket
**Replacing:** 2EM0654B
**Servicing:** M39646, MC107012, MC107023, MC109018, MC109025, TM000A27301

**231193** D.E. Bracket
**Replacing:** TM090A04301
**Servicing:** M000A01901, M39376, MC109032

**231238** D.E. Bracket
**Replacing:** 594579
**Servicing:** D6RA132, D6RA162, D6RA163, D6RA249, D6RA293, D6RA32, D6RA62, D6RA93

**231537** D.E. Bracket
**Replacing:** 594569
**Servicing:** D6RA133, D6RA33, D6RA46, D6RA56, D6RA61, D6RA72, D6RA73

**231849** D.E. Bracket
**Replacing:** 100234



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**233125** D.E. Bracket
**Servicing:** D9R73

**233317** D.E. Bracket
**Replacing:** 594488
**Servicing:** D7R13, D7R18, D7R25, D7R35

**233318** D.E. Bracket
**Replacing:** 594487
**Servicing:** D7R12, D7R127, D7R2, D7R20, D7R24, D7R26, D7R27, D7R32, D7R4, D7R8, D8R27, D8R29

**233801**# D.E. Bracket
**Servicing:** D9R119, D9R149, D9RP160

**234152**# 5★ D.E. Bracket
**Manufacturer:** Valeo
**Replacing:** 594592
**Servicing:** D6RA83, D6RAD183, D6RADP359, D6RAP229

**234172** D.E. Bracket
**Servicing:** M52100, M53486, TM000A07901, TM000A08401

**234390** 5★ D.E. Bracket
**Manufacturer:** Valeo
**Replacing:** 594501
**Servicing:** D7RS130, D7RS30, D7RS301

**234391** 5★ D.E. Bracket
**Manufacturer:** Valeo
**Replacing:** 594502
**Servicing:** D7RS131, D7RS31

**235133** D.E. Bracket
**Replacing:** 594510
**Servicing:** 105119C, D7E19, D7E22, D7E4, D7E6, TS10E3, TS10E4, TS10E5

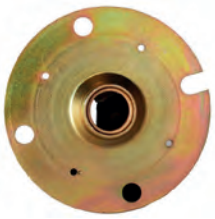
**235335** D.E. Bracket
**Replacing:** 594508
**Servicing:** D7E18, D7E28, D7E38, D7E4, D7E8, D7ED28, D7ED281
*Bearing: HC-CARGO 141233.*

**236805** D.E. Bracket
**Replacing:** 594597
**Servicing:** D6RA105, D6RA115

## I.M. Brackets

**139139** I.M. Bracket
**Servicing:** D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99
*Bushing: HC-CARGO 140258. Needle bearing: HC-CARGO 140375.*

**231196** I.M. Bracket
**Replacing:** TM008B00601Z
**Servicing:** HK988300, MG120413, MG120445, TM000A06101, TM000A14901



**231720**# I.M. Bracket
**Replacing:** 074657
**Servicing:** D11E118, D11E119, D11E120, D11E131, D11E137, D11E139T, D11E141, D11E146, D11E148, D11E158, D11E167T, D11E193
**ID** 24.00



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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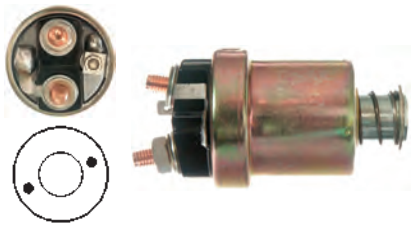
## Solenoids

### 12 V

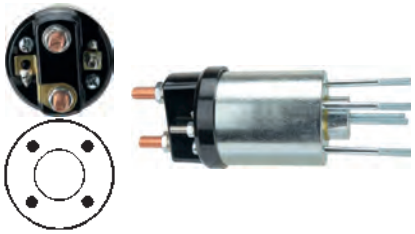


**131009** Solenoid

**Replacing:** NE361, NE355

**Servicing:** 532026A, 6020E, 6020EF, 6020F, 6035F, 6081E, 6081F

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 46.00, **OD/cover** 47.80, **Total length** 107.80, **Height/B+** 16.00, **Width/kl. 50** 16.35, **Coil bolt** M8, **Coil bolt 2** 8.55, **No./terminals** 3
*Cap: HC-CARGO 131321.*

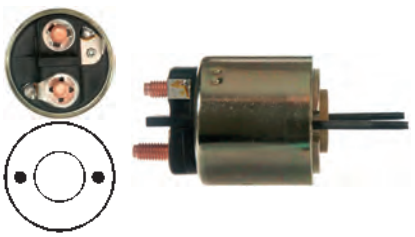


**131071** Solenoid

**Replacing:** CED539, CED512, CED510, CED502, CED501, 182438, 095759, 094795, 074764, 073302

**Servicing:** D10E47, D10E48, D10E54, D10E63, D10E64, D10E73, D10E80, D10E84, D11E118, D11E119, D11E119T, D11E120, D11E126, D11E129

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.35, **OD/cover** 60.80, **Total length** 163.50, **Height/B+** 14.70, **Width/kl. 50** 11.50, **Coil bolt** M8, **Coil bolt 2** 11.35, **No./terminals** 3
*Cap: HC-CARGO 134401.*

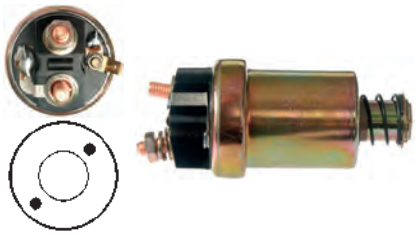


**131171** Solenoid

**Replacing:** CED529, 182461, 102217

**Servicing:** D10E88, D10E881, D10E882, D10E89, D10E90, D9E102, D9E108, D9E127, D9E36, D9E38, D9E48, D9E49, D9E50, D9E51, D9E53

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 53.90, **OD/cover** 47.00, **Total length** 113.15, **Height/B+** 15.40, **Width/kl. 50** 14.50, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3
*Cap: HC-CARGO 132033.*

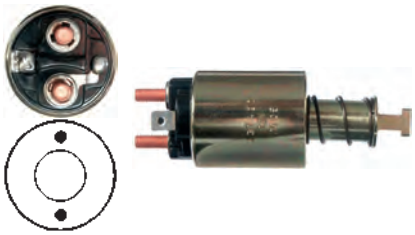


**131208** Solenoid

**Replacing:** 077265

**Servicing:** 6099C, 6099D

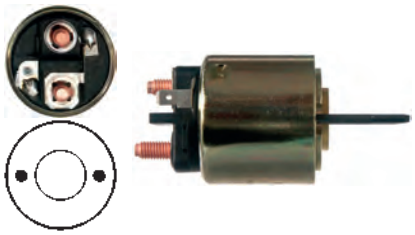
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 45.80, **OD/cover** 47.75, **Total length** 127.65, **Height/B+** 16.70, **Width/kl. 50** 9.25, **Coil bolt** M8, **Coil bolt 2** 9.80, **No./terminals** 3
*Cap: HC-CARGO 133768.*



**131431** Solenoid

**Replacing:** 442911

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 52.15, **OD/cover** 44.35, **Total length** 125.55, **Height/B+** 18.70, **Width/kl. 50** 11.70, **No./terminals** 3
*Cap: HC-CARGO 134620. Moving contact: HC-CARGO 139853.*

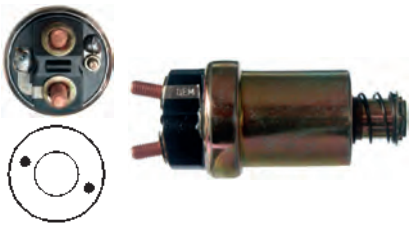


**131584** Solenoid

**Replacing:** NE138, CED544, CED538, CED533, 105489, 103794, 103489, 102849

**Servicing:** D10E88, D10E881, D10E882, D10E89, D9E127, D9E38, D9E48, D9E49, D9E51, D9E53, D9E56, D9E57, D9E61, D9E62, D9E64, D9E66

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.15, **OD** 54.00, **OD/cover** 44.25, **Total length** 112.20, **Height/B+** 15.35, **Width/kl. 50** 14.15, **Coil bolt** M8, **Coil bolt 2** 10.70, **No./terminals** 3
*Cap: HC-CARGO 132826. Moving Contact: HC-CARGO 132037.*

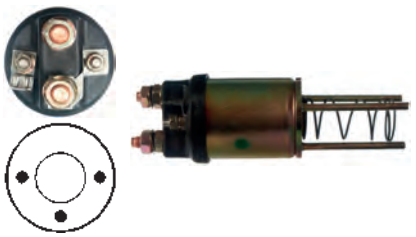


**131797** Solenoid

**Replacing:** NE362

**Servicing:** 6056H, 6056J, 6109F, 6109G, 6109H, 6109K, 6109L

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 45.80, **OD/cover** 47.65, **Total length** 128.00, **Height/B+** 14.50, **Width/kl. 50** 13.60, **Coil bolt** M8, **Coil bolt 2** 15.10, **No./terminals** 3
*Cap: HC-CARGO 133768.*

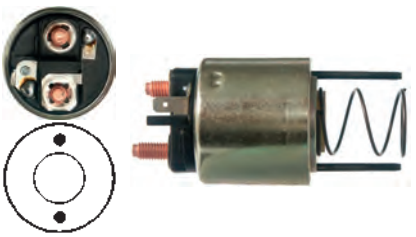


**131798** Solenoid

**Replacing:** NE137, NE132, CED468, CED461, CED460, CED458, CED454, CED451, CED448, CED444, CED442, CED439

**Servicing:** D10E66, D10E72, D10E74, D10E79, D10E96, D8E107, D8E112, D8E115, D8E117, D8E120, D8E121, D8E123, D8E129, D8E130, D8E131

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 20.15, **OD** 46.75, **OD/cover** 51.35, **Total length** 158.50, **Height/B+** 19.00, **Width/kl. 15a** 10.00, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 14.55, **No./terminals** 4
*Cap: HC-CARGO 131333.*



**132024** Solenoid

**Replacing:** CED550, 181404

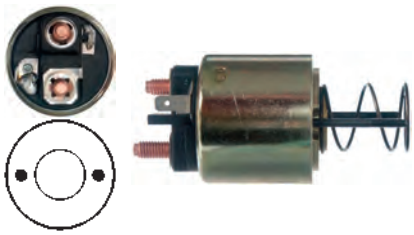
**Servicing:** D9E104, D9E40, D9R90, D9R96, D9R97

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.10, **OD** 54.00, **OD/cover** 45.20, **Total length** 112.10, **Height/B+** 16.25, **Width/kl. 50** 13.45, **Coil bolt** M8, **Coil bolt 2** 12.15, **No./terminals** 3
*Cap: HC-CARGO 132826.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

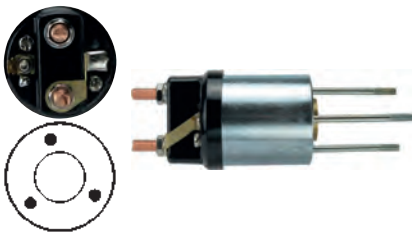


## 132025 Solenoid

**Replacing:** CED568, CED549, 594156, 594098, 181069, 100462

**Servicing:** D9R121, D9R122, D9R126, D9R73, D9R84, D9R89, D9R91

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.15, **OD** 54.00, **OD/cover** 48.65, **Total length** 112.25, **Height/B+** 15.00, **Width/kl. 50** 14.25, **Coil bolt** M8, **Coil bolt 2** 10.60, **No./terminals** 3
*Cap: HC-CARGO 132826.*

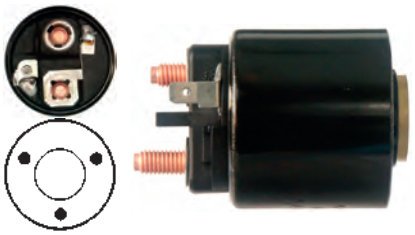


## 132268 Solenoid

**Replacing:** NE129, CED514, CED511, 300752, 182452, 102197, 098048, 096666

**Servicing:** D11E163, D11E164, D11E169, D11E172, D11E173, D11E176, D11E177, D11E178, D11E187, D11E272

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.10, **OD** 54.30, **OD/cover** 59.50, **Total length** 164.40, **Height/B+** 22.25, **Width/kl. 50** 12.55, **Coil bolt** M8, **Coil bolt 2** 12.35, **No./terminals** 3
*Cap: HC-CARGO 134145.*

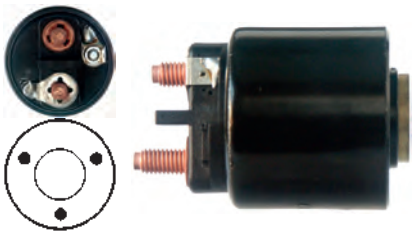


## 132976 Solenoid

**Replacing:** NE777, CED552, 594604, 594370, 594325, 594322, 594319, 594275, 594273, 594269, 594268, 594267

**Servicing:** D6RA10, D6RA12, D6RA13, D6RA141, D6RA15, D6RA20, D6RA210, D6RA39, D6RA40, D6RA41, D6RA42, D6RA44, D6RA45, D6RA46

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.30, **OD** 54.15, **OD/cover** 46.15, **Total length** 80.60, **Height/B+** 16.00, **Width/kl. 50** 12.60, **Coil bolt** M8, **Coil bolt 2** 11.00, **No./terminals** 3
*Cap: HC-CARGO 132826.*

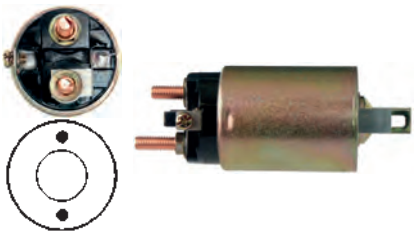


## 132977 Solenoid

**Replacing:** NE139, CES569, CED569, CED564, CED563, 594189, 594188, 594119, 594117, 594087, 594047, 182563

**Servicing:** 626002, D6RA107, D6RA109, D6RA114, D6RA12, D6RA16, D6RA161, D6RA162, D6RA168, D6RA17, D6RA18, D6RA19, D6RA22, D6RA23

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.00, **OD** 54.00, **OD/cover** 48.85, **Total length** 80.45, **Height/B+** 15.00, **Width/kl. 50** 10.50, **Coil bolt** M8, **Coil bolt 2** 10.60, **No./terminals** 3
*Cap: HC-CARGO 134402.*

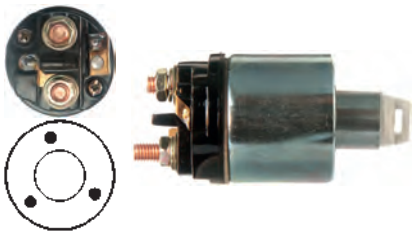


## 133050 Solenoid

**Replacing:** TM400B08301

**Servicing:** TM000A06101

12 **V**, **B+** M8, **Kl. 50** 9.40, **OD** 55.15, **OD/cover** 48.60, **Total length** 144.00, **Height/B+** 27.65, **Width/kl. 50** 12.45, **Coil bolt** M8, **Coil bolt 2** 19.40, **No./terminals** 3
*Cap: HC-CARGO 133286.*

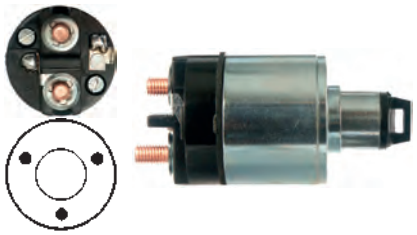


## 133120 Solenoid

**Replacing:** NE347

**Servicing:** 532025A, 532025B, 534032A, 534047A, 534051A, 534052A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.15, **OD** 50.90, **OD/cover** 51.55, **Total length** 96.85, **Height/B+** 16.15, **Width/kl. 50** 12.60, **Coil bolt** M8, **Coil bolt 2** 12.15, **No./terminals** 3
*Cap: HC-CARGO 132274.*

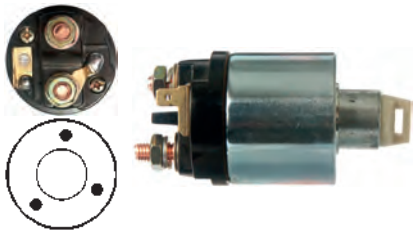


## 133121 Solenoid

**Replacing:** NE346

**Servicing:** 534023A, 534039A, 534044A, 534046A, 534050A, 534050B

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.25, **OD** 52.00, **OD/cover** 52.00, **Total length** 94.80, **Height/B+** 13.00, **Width/kl. 50** 11.35, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3
*Cap: HC-CARGO 133771.*

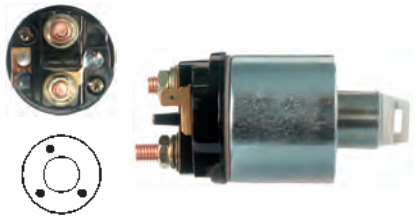


## 133122 Solenoid

**Replacing:** NE348

**Servicing:** 534029A, 534031A, 534042A, 534042B, 534043A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.25, **OD** 50.75, **OD/cover** 51.65, **Total length** 97.00, **Height/B+** 15.85, **Width/kl. 50** 11.55, **Coil bolt** M8, **Coil bolt 2** 12.10, **No./terminals** 3
*Cap: HC-CARGO 132035.*



## 133123 Solenoid

**Replacing:** NE350

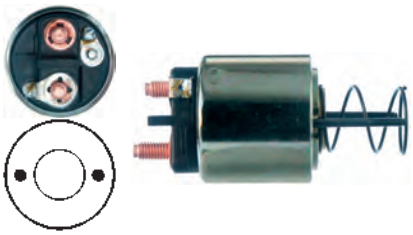
**Servicing:** 534045A, 534048A, 534049A

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 23.30, **OD** 50.80, **OD/cover** 51.55, **Total length** 97.00, **Height/B+** 16.40, **Width/kl. 50** 11.85, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3
*Cap: HC-CARGO 131172.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

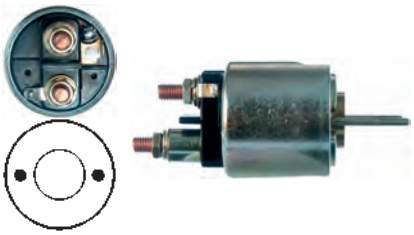


## 133128 Solenoid

**Replacing:** NE815, NE785, CED565, CED518, 594355, 594155, 504047, 182520, 182464, 099932

**Servicing:** 105119C, D7E19, D7E26, D7E4, D7E6, D9E101, D9E36, D9E38, D9E54, D9E62, D9R119, D9R122, D9R149, D9RP160, TS10E4, TS10E5

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.15, **OD/cover** 44.35, **Total length** 111.15, **Height/B+** 15.50, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3
*Cap: HC-CARGO 134402.*

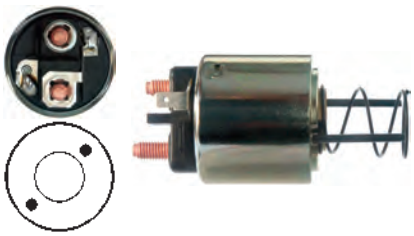


## 133151 Solenoid

**Replacing:** CED517, 182457, 099378

**Servicing:** D9E131, D9E132, D9E43, D9E44, D9E83

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.25, **OD** 54.25, **OD/cover** 48.00, **Total length** 123.30, **Height/B+** 10.70, **Width/kl. 50** 13.55, **Coil bolt** M8, **Coil bolt 2** 14.70, **No./terminals** 3
*Cap: HC-CARGO 133156.*

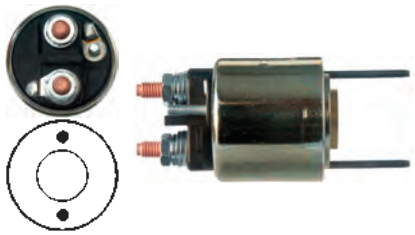


## 133163 Solenoid

**Replacing:** CED540, 182459, 104604

**Servicing:** D9E137, D9E138, D9E237, D9E238, D9E276, D9E39, D9E40, D9E52, D9E76, D9E77, D9E771

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.30, **OD** 53.90, **OD/cover** 44.50, **Total length** 112.00, **Height/B+** 15.00, **Width/kl. 50** 14.25, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3
*Cap: HC-CARGO 132826.*

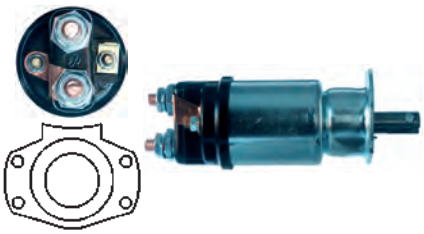


## 133166 Solenoid

**Replacing:** CED528, 182463, 108458, 102190

**Servicing:** D9E278, D9E46, D9E68, D9E78, D9E79

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.00, **OD** 53.90, **OD/cover** 48.35, **Total length** 118.00, **Height/B+** 20.35, **Width/kl. 50** 16.60, **Coil bolt** M8, **Coil bolt 2** 19.60, **No./terminals** 3
*Cap: HC-CARGO 134402.*



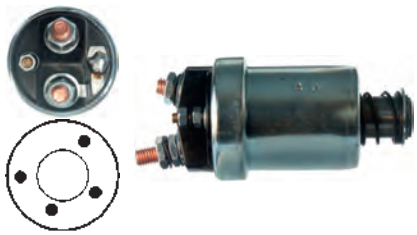
## 133169 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** CED429, CED416, CED41, CED406, CED402, 182442, 076870, 053459

**Servicing:** D11E144, D11E58, D11E69, D11E75, D11E78, D11E84, D11E85, D8E104, D8E106, D8E111, D8E113, D8E116, D8E119, D8E122, D8E124

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 47.70, **OD/cover** 53.30, **Total length** 154.00, **Height/B+** 15.90, **Width/kl. 50** 14.65, **Coil bolt** M8, **Coil bolt 2** 15.20, **No./terminals** 3
*Cap: HC-CARGO 133376.*

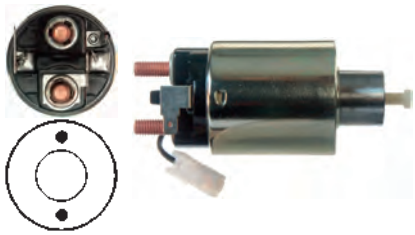


## 133178 Solenoid

**Replacing:** 612459

**Servicing:** 6160D, 6160E, 6160F, 6160G, 6169A, 6169B

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 46.30, **OD/cover** 51.15, **Total length** 122.00, **Height/B+** 19.60, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3
*Cap: HC-CARGO 131323.*

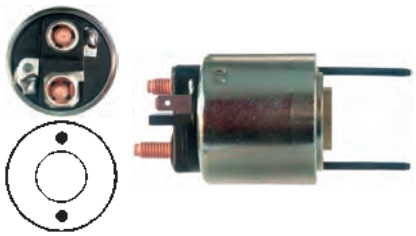


## 133289 Solenoid

**Replacing:** 36120-11130

**Servicing:** M39646, MC109018, MC109025, MG112014, MP112040

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.15, **OD** 51.55, **OD/cover** 45.15, **Total length** 122.30, **Height/B+** 16.55, **Width/kl. 50** 21.00, **Coil bolt** M8, **Coil bolt 2** 16.00, **No./terminals** 4
*Cap: HC-CARGO 134915.*

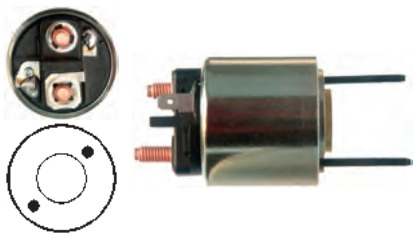


## 133532 Solenoid

**Replacing:** NE159, CED541, 104594

**Servicing:** D9E278, D9E46, D9E55, D9E68, D9E78, D9E79

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.00, **OD/cover** 48.20, **Total length** 112.25, **Height/B+** 15.00, **Width/kl. 50** 13.85, **Coil bolt** M8, **Coil bolt 2** 10.30, **No./terminals** 3
*Cap: HC-CARGO 132826.*



## 133533 Solenoid

**Replacing:** NE142, NE141, CED548, CED546, CED537, 594053, 182460, 106143, 106142

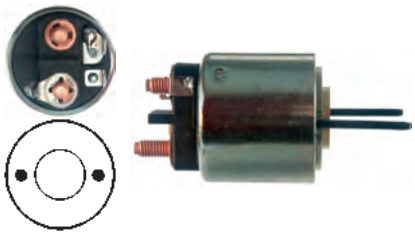
**Servicing:** D10E85, D10E92, D10E921, D10E922, D9E113, D9E114, D9E137, D9E138, D9E237, D9E238, D9E276, D9E39, D9E45, D9E76, D9E761

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.30, **OD** 54.00, **OD/cover** 48.00, **Total length** 112.25, **Height/B+** 15.30, **Width/kl. 50** 13.90, **Coil bolt** M8, **Coil bolt 2** 10.50, **No./terminals** 3
*Cap: HC-CARGO 132826.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

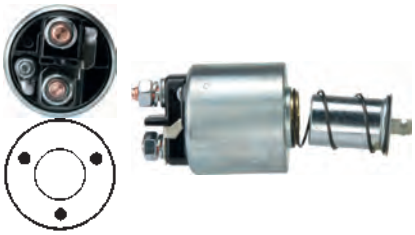


## 133534 Solenoid

**Replacing:** NE140, NE134, CED543, 182462, 105254

**Servicing:** D10E87, D9E100, D9E140, D9E200, D9E300, D9E81, D9E87, D9E95

12 **V**, **B+** M8, **Kl. 15a** 4.70, **Kl. 50** 6.30, **ID/cover** 25.00, **OD** 54.00, **OD/cover** 48.00, **Total length** 112.00, **Height/B+** 15.25, **Width/kl. 15a** 14.95, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 10.45, **No./terminals** 4
*Cap: HC-CARGO 133633.*

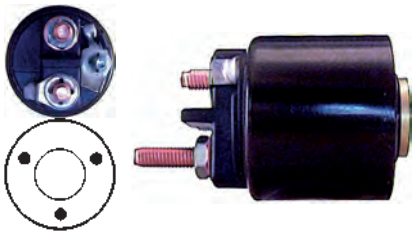


## 135390 Solenoid

**Replacing:** 594426, 594365, 594140, 594118

**Servicing:** D6RA100, D6RA42, D6RA43, D6RA572, D7R1, D7R11, D7R15, D7R151, D7R3, D7R45, TM000A27601

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.25, **OD** 53.90, **OD/cover** 47.85, **Total length** 80.30, **Height/B+** 16.00, **Width/kl. 50** 8.35, **Coil bolt** M8, **Coil bolt 2** 11.25, **No./terminals** 3
*Cap: HC-CARGO 132034.*



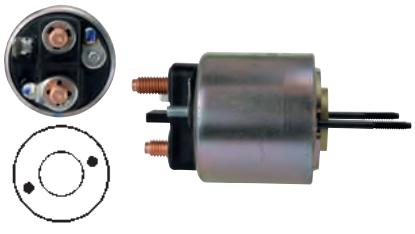
## 136255 Solenoid

**Replacing:** 594704, 594607, 594280, 594271, 182717

**Servicing:** D6RA132, D6RA138, D6RA163, D6RA17, D6RA18, D6RA185, D6RA19, D6RA22, D6RA27, D6RA29, D6RA32, D6RA34, D6RA40, D6RA50

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.15, **OD** 53.90, **OD/cover** 45.65, **Total length** 91.60, **Height/B+** 27.25, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 11.20, **No./terminals** 3
*Cap: HC-CARGO 136367.*

**Alternative no.:** 610331

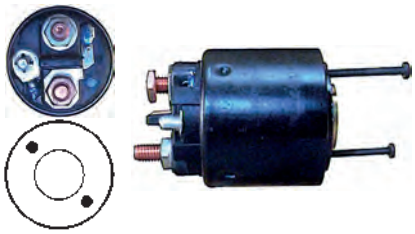


## 137300 Solenoid

**Replacing:** 594054

**Servicing:** D9R116, D9R144

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.30, **OD** 53.85, **OD/cover** 44.30, **Total length** 111.80, **Height/B+** 15.20, **Width/kl. 50** 16.15, **Coil bolt** M8, **Coil bolt 2** 10.60, **No./terminals** 4
*Insulated return. Cap: HC-CARGO 232010.*

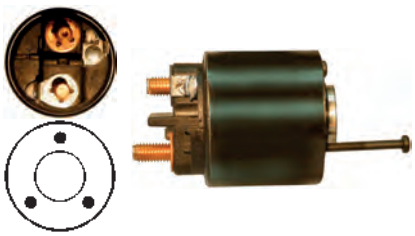


## 139476 Solenoid

**Replacing:** CED5033, 594452, 594447, 594421, 594347

**Servicing:** D7E18, D7E29, D7E30, D7E31, D7E32, D7E38, D7E4, D7E40, D7E41, D7E42, D7E7, D7E8, TS8E3, TS8E4, TS8E5

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.00, **OD** 53.75, **OD/cover** 45.75, **Total length** 80.70, **Height/B+** 15.30, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 11.10, **No./terminals** 3
*Cap: HC-CARGO 231268.*



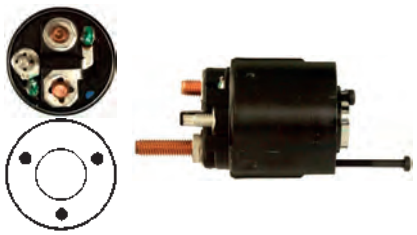
## 230222 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594138

**Servicing:** D6RA26, D6RA30, D6RA47

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.35, **OD** 54.00, **OD/cover** 49.55, **Total length** 80.40, **Height/B+** 15.15, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 9.40, **No./terminals** 3

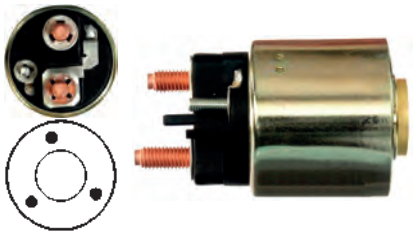


## 231163 Solenoid

**Replacing:** 594362

**Servicing:** D6RA181, D6RA59, D6RA81, D6RA91

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 17.60, **OD** 54.00, **OD/cover** 51.90, **Total length** 89.30, **Switch dim.** 7.50, **Height/B+** 29.50, **Width/kl. 50** 13.30, **No./terminals** 3

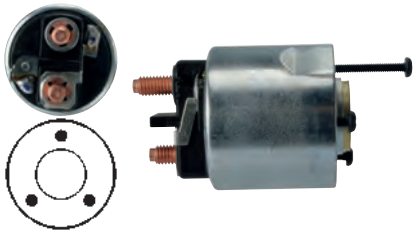


## 231610 Solenoid

**Replacing:** 594181

**Servicing:** D6RA37, D6RA50, D6RA51, D6RA511, D6RA57, D6RA571

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.00, **OD** 53.95, **OD/cover** 45.40, **Total length** 91.00, **Height/B+** 19.00, **Width/kl. 50** 12.95, **Coil bolt** M8, **Coil bolt 2** 14.70, **No./terminals** 3
*Cap: HC-CARGO 231765.*



## 231718 Solenoid

**Replacing:** 594208

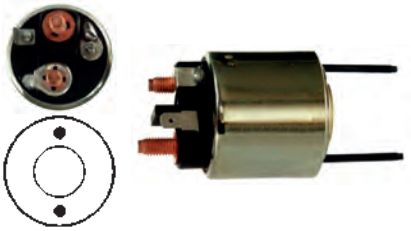
**Servicing:** D6RA133, D6RA141, D6RA33, D6RA41, D6RA45, D6RA46, D6RA53, D6RA61, D6RA63

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.00, **OD/cover** 44.50, **Total length** 80.15, **Height/B+** 15.00, **Width/kl. 50** 6.30, **Coil bolt** M8, **Coil bolt 2** 9.35, **No./terminals** 3
*Cap: HC-CARGO 132826.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

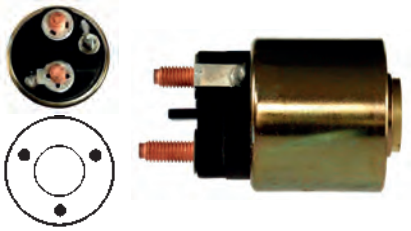
O.E.M. names and numbers are used for reference purposes only.



## 232011 Solenoid

**Replacing:** NE421, CED530, 182458, 102295

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.00, **OD/cover** 44.50, **Total length** 112.30, **Height/B+** 15.00, **Width/kl. 15a** 8.80, **Width/kl. 50** 14.90, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 3



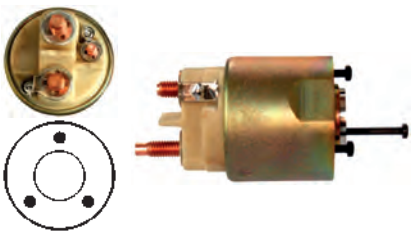
## 232012 Solenoid

**Replacing:** NE898, 594183, 594048

**Servicing:** D6RA12, D6RA16, D6RA161, D6RA38, D6RA66, D6RA661, D6RA72, D6RA721, D6RA74, D8R27, D8R29

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.25, **OD** 53.85, **OD/cover** 45.40, **Total length** 91.40, **Height/B+** 19.70, **Width/kl. 50** 13.30, **Coil bolt** M8, **Coil bolt 2** 14.65, **No./terminals** 3

*Cap: HC-CARGO 231766.*



## 232041 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594638, 594411

**Servicing:** D6RA105, D6RA115, D7R44, D7R47, D7R49, D8R49

12 **V**, **B+** M8, **Kl. 50** M5, **ID/cover** 25.25, **OD** 54.00, **OD/cover** 45.85, **Total length** 91.00, **Height/B+** 19.45, **Width/kl. 50** 10.70, **Coil bolt** M8, **Coil bolt 2** 9.35, **No./terminals** 3

*Cap: HC-CARGO 232204.*

**Alternative no.:** 335192

## 233708 Solenoid

**Replacing:** 594266

**Servicing:** D9R149

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 39.35, **OD** 54.00, **OD/cover** 51.85, **Total length** 119.00, **Height/B+** 15.58, **Width/kl. 50** 10.80, **Coil bolt** M8, **Coil bolt 2** 10.85, **No./terminals** 3

*Cap: HC-CARGO 136367.*

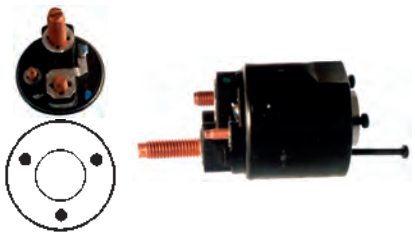
## 233795 Solenoid

**Replacing:** 594454, 594413, 594380

**Servicing:** D7ES1, D7ES2, D7ES4, D7ES5, TS18E7

12 **V**, **B+** M8, **ID/cover** 28.45, **OD** 54.20, **OD/cover** 48.80, **Total length** 108.50, **Height/B+** 18.20, **Coil bolt** M8, **Coil bolt 2** 15.25, **No./terminals** 3

*Cap: HC-CARGO 233076.*



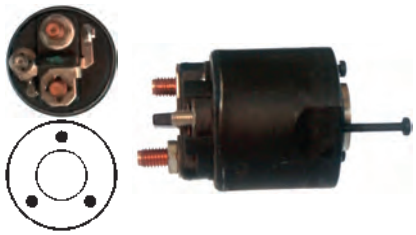
## 234089 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594309

**Servicing:** D7R14, D7R39

12 **V**, **B+** M10, **Kl. 50** M5, **ID/cover** 25.35, **OD** 53.95, **OD/cover** 48.00, **Total length** 100.85, **Height/B+** 28.50, **Width/kl. 50** 10.60, **Coil bolt** M8, **Coil bolt 2** 9.15, **No./terminals** 3



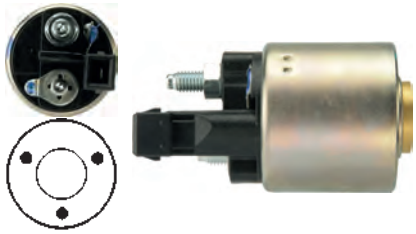
## 234153 Solenoid

**Replacing:** 594401

**Servicing:** D6RA293, D6RA83, D6RA92, D6RA93, D6RAP229

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 25.30, **OD** 54.00, **OD/cover** 45.85, **Total length** 79.65, **Height/B+** 15.40, **Width/kl. 50** 7.50, **Coil bolt** M8, **Coil bolt 2** 9.20, **No./terminals** 3

*Cap: HC-CARGO 231268. Moving contact: HC-CARGO 132037.*



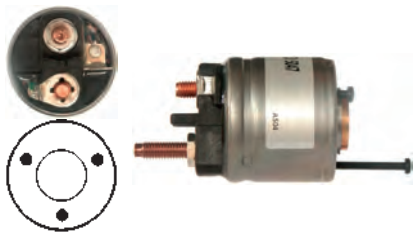
## 234388 Solenoid

**Replacing:** 594391

**Servicing:** D7RS129, D7RS130, D7RS29, D7RS30, D7RS301

12 **V**, **B+** M8, **Kl. 50** 4.70, **ID/cover** 25.00, **OD** 54.00, **OD/cover** 49.10, **Total length** 95.25, **Height/B+** 20.40, **Coil bolt** M8, **Coil bolt 2** 8.85

*Cap: HC-CARGO 233076. Moving contact: HC-CARGO 132037.*



## 234389 Solenoid

**Replacing:** 594392

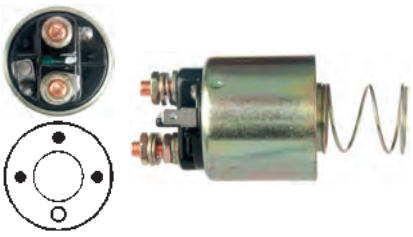
**Servicing:** D7RS131, D7RS31

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.40, **OD** 54.40, **OD/cover** 48.40, **Total length** 90.90, **Height/B+** 25.55, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 9.30, **No./terminals** 3



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 234579 Solenoid

**Replacing:** CED580, 594046

**Servicing:** D6RA133, D6RA21, D6RA56, D6RA6, D6RA61, D6RA73, D7R35

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 24.80, **OD** 54.10, **Height/B+** 20.60, **Width/kl. 50** 6.30, **Coil bolt** M8, **Coil bolt 2** 15.00, **No./terminals** 3

*Cap: HC-CARGO 132826.*

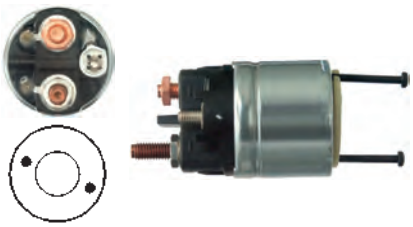
## 234778 Solenoid

**Replacing:** 594288

**Servicing:** D7E1, TS8E1

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.00, **OD/cover** 47.50, **Total length** 83.45, **Height/B+** 20.40, **Width/kl. 50** 14.15, **Coil bolt** M8, **Coil bolt 2** 9.30, **No./terminals** 3

*Cap: HC-CARGO 132033.*



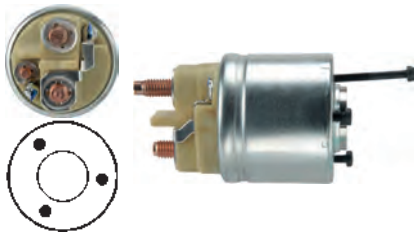
## 234846 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594463

**Servicing:** D7ED28, D7ED281

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.80, **OD** 51.00, **OD/cover** 45.15, **Total length** 119.00, **Height/B+** 20.80, **Width/kl. 50** 10.80, **Coil bolt** M8, **Coil bolt 2** 9.65, **No./terminals** 3



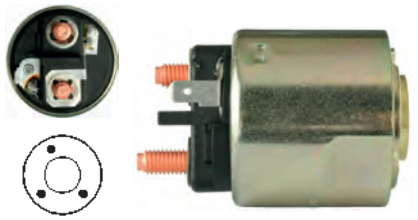
## 234944 Solenoid

**Replacing:** 594449

**Servicing:** D6RA101, D6RA104, D6RA110

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **OD/cover** 52.00, **Total length** 88.00, **Height/B+** 16.50, **Width/kl. 50** 10.00, **No./terminals** 3

*Cap: HC-CARGO 233501. Moving contact: HC-CARGO 132037.*



## 234969 Solenoid

**Replacing:** 594407

**Servicing:** 1250128, D7E15, D7E20, TM000A34101, TM000A36101

12 **V**, **B+** M8, **Kl. 50** 6.30, **ID/cover** 25.20, **OD** 54.00, **OD/cover** 45.60, **Total length** 80.85, **Height/B+** 15.55, **Width/kl. 50** 15.00, **Coil bolt** M8, **Coil bolt 2** 10.80, **No./terminals** 3

*Cap: HC-CARGO 132826.*

## 235077 Solenoid

**Servicing:** HQ808670, MG122202, MG122433, TM000A18601, TM000A23601, TM000V23601

12 **V**, **B+** M8x14.50, **Kl. 50** 6.30, **OD** 55.30, **Total length** 111.50, **Height/B+** M8x14.50, **Width/kl. 50** 6.30, **No./terminals** 3

*Cap: HC-CARGO 134626.*

## 235106 Solenoid

**Replacing:** 594348

**Servicing:** D6G3, D7E16, D7E2, D7E23, D7E25, D7E5, TS10E1, TS8E2

12 **V**, **No./terminals** 3

**Alternative no.:** 335193

## 235268 Solenoid

**Replacing:** 594474

**Servicing:** D7RS150, D7RS50

12 **V**, **B+** M8, **Kl. 15a** M8, **Kl. 50** 6.30, **OD** 54.17, **OD/cover** 51.76, **Total length** 145.42, **Height/B+** 60.00, **Width/kl. 15a** 30.00, **Width/kl. 50** 17.00, **Coil bolt** M8, **Coil bolt 2** 6.76, **No./terminals** 3

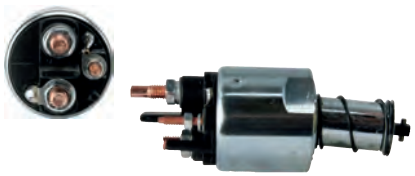
## 235416 Solenoid

**Replacing:** 594431

**Servicing:** D7R48

12 **V**, **No./terminals** 3

*Cap: HC-CARGO 132826.*



## 235869 Solenoid

**Replacing:** 594610

**Servicing:** D7E27, D7E47

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 53.80, **Total length** 94.20, **Height/B+** 24.42, **Width/kl. 50** 21.55, **Coil bolt** M8, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 236239 Solenoid

**Replacing:** 594467

**Servicing:** D7G4

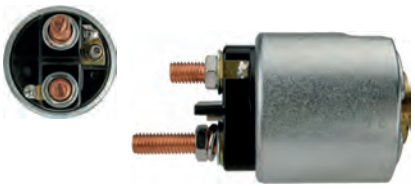
12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M6, **OD** 53.75, **OD/cover** 44.30, **Total length** 136.00, **Height/B+** 16.00, **Coil bolt** M8, **No./terminals** 4

## 236258 Solenoid

**Replacing:** 594438

**Servicing:** 105119C, D7E19, D7E22, D7E26, D7E6, TS10E3, TS10E4, TS10E5

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.15, **Total length** 74.70, **Height/B+** 15.00, **Width/kl. 50** 14.10, **Coil bolt** M8, **Coil bolt 2** 9.00, **No./terminals** 3



## 236269 Solenoid

**Replacing:** 594658

**Servicing:** D7G11, TS22E5, TS22E5B, TS22E8, TS22E9, TS24E2

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **Height/B+** 19.50, **Width/kl. 50** 10.50, **No./terminals** 3

## 236626 Solenoid

**Replacing:** 595610, 594743, 594617

**Servicing:** 191335, 458389, D6GS11, D6GS12, D6GS12M, D6GS13, D6GS14, D6GS19, D7GS10, D7GS8, D7GS9, ESW20ER121, TS10E26, TS12ER15

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 54.00, **Total length** 100.30, **Height/B+** 19.50, **Coil bolt** M8, **Coil bolt 2** 9.45, **No./terminals** 3

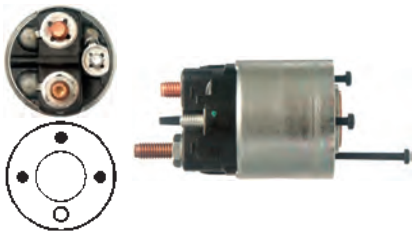
*Cap: HC-CARGO 236627.*

## 236801 Solenoid

**Replacing:** 594646, 236801

**Servicing:** D6G1, D6G32, D6G321

12 **V**, **OD** 54.00, **No./terminals** 3



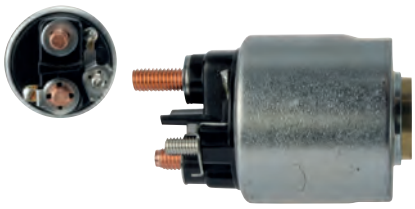
## 236859 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594461

**Servicing:** D6RAD183, D6RADP359

12 **V**, **B+** M8, **Kl. 50** M6, **ID/cover** 23.95, **OD** 51.40, **OD/cover** 47.20, **Total length** 88.65, **Height/B+** 8.75, **Width/kl. 50** 10.40, **Coil bolt** M8, **Coil bolt 2** 16.80, **No./terminals** 3



## 236975 Solenoid

**Replacing:** 594414

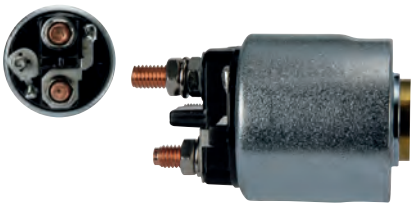
**Servicing:** D6RA137, D6RA138, D6RA187, D6RA188, D6RA87

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.00, **OD/cover** 46.00, **Total length** 89.30, **Height/B+** 17.50, **Width/kl. 50** 10.81, **Coil bolt** M8, **No./terminals** 3

## 236980 Solenoid

**Servicing:** TM000A31201

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 52.51, **OD/cover** 49.10, **Total length** 118.10, **Switch dim.** 7.83, **Height/B+** 13.90, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3

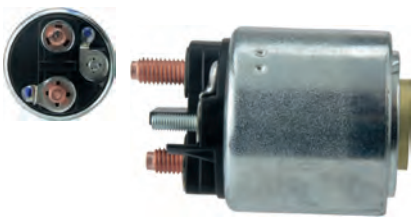


## 237444 Solenoid

**Replacing:** 594444

**Servicing:** D6RA91

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 53.90, **Total length** 89.25, **Height/B+** 30.00, **Width/kl. 50** 13.00, **Coil bolt** M8, **Coil bolt 2** 22.45, **No./terminals** 3



## 237686 Solenoid

**Servicing:** D7E39, TS8E6

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **Total length** 59.00, **Height/B+** 14.50, **Width/kl. 50** 10.00, **No./terminals** 3

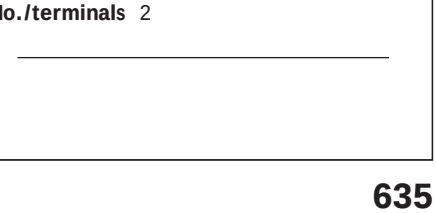
**NEW PRODUCT**
**www.hc-cargo.com**

## 238193 Solenoid

**Replacing:** 595731, 594632

**Servicing:** 190895, D7ES5, D7G26, D7G3, TS18E13, TS22E26

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.10, **Total length** 88.75, **Height/B+** 16.10, **Width/kl. 50** 10.56, **Coil bolt** M8, **Coil bolt 2** 9.30, **No./terminals** 3



## 239966 Solenoid

**Replacing:** 594459

**Servicing:** D7E52

12 **V**, **B+** M8, **OD** 54.00, **Total length** 97.07, **Height/B+** 18.00, **No./terminals** 2



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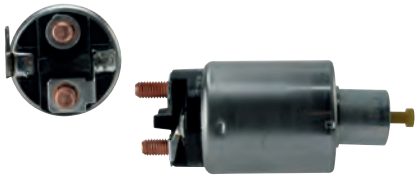
#Available while stock last, * Program development.

## 330427 Solenoid

**Servicing:** TM000A38001

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 49.76, **Total length** 125.00, **Height/B+** 15.00, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3

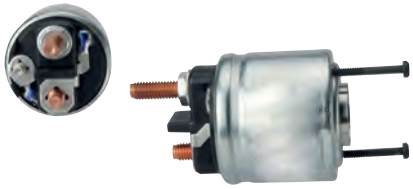


## 330549 Solenoid

**Replacing:** 2EM0588F

**Servicing:** TM000A27301, TM000A27601, TM000A37201

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.70, **Total length** 120.20, **Height/B+** 14.50, **Coil bolt** M8, **Coil bolt 2** 12.80



## 330689 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** 594724

**Servicing:** D6G5

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.29, **Total length** 89.46, **Height/B+** 20.80, **Width/kl. 50** 7.37, **Coil bolt** M8, **Coil bolt 2** 9.32, **No./terminals** 3

NEW PRODUCT
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## 331640 Solenoid

**Servicing:** D7G14

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.23, **Total length** 89.49, **Height/B+** 20.70, **Width/kl. 50** 12.28, **Coil bolt** M8, **Coil bolt 2** 9.07, **No./terminals** 3

## 331697 Solenoid

**Servicing:** M56290, TM000A31001

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.30, **OD/cover** 46.50, **Total length** 120.00, **Switch dim.** 8.00, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 12.70, **No./terminals** 3

NEW PRODUCT
www.hc-cargo.com

## 332103 Solenoid

**Replacing:** 594779, 594773

**Servicing:** D6G33, D6G332, TS18E33, TS18E331

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 54.00, **Total length** 79.80, **Height/B+** 15.21, **Coil bolt** M8, **Coil bolt 2** 9.45, **No./terminals** 3

## 332118 Solenoid

**Servicing:** 1250303, S0001250303

12 **V**, **B+** M8, **Kl. 50** Plug, **OD** 49.90, **Total length** 125.0, **Height/B+** 15.00, **Coil bolt** M8, **Coil bolt 2** 13.50, **No./terminals** 3

NEW PRODUCT
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## 332517* Solenoid

**Replacing:** 595576

**Servicing:** TS14E11

12 **V**, **B+** M8, **Kl. 50** M6, **OD** 53.95, **OD/cover** 51.90, **Total length** 89.10, **Switch dim.** 6.50, **Height/B+** 17.00, **Width/kl. 50** 9.00, **Coil bolt** M8, **Coil bolt 2** 9.50, **No./terminals** 3

## 332529 Solenoid

**Servicing:** TS14E110

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **OD/cover** 51.95, **Total length** 91.25, **Switch dim.** 6.70, **Height/B+** 15.50, **Width/kl. 50** 10.50, **Coil bolt** M8, **Coil bolt 2** 10.00, **No./terminals** 3

NEW PRODUCT
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## 332536 Solenoid

**Servicing:** M60082

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.70, **OD/cover** 47.45, **Total length** 118.50, **Switch dim.** 9.50, **Height/B+** 14.00, **Coil bolt** M8, **Coil bolt 2** 12.50, **No./terminals** 3

NEW PRODUCT
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## 332681 Solenoid

**Servicing:** TS12E9

12 **V**, **B+** M8, **Kl. 50** M5, **OD** 54.00, **OD/cover** 52.00, **Total length** 91.35, **Switch dim.** 6.60, **Height/B+** 19.00, **Width/kl. 50** 11.00, **Coil bolt** M8, **Coil bolt 2** 9.50, **No./terminals** 3

## 333722 Solenoid

12 **V**, **B+** M8, **OD** 43.25, **OD/cover** 38.30, **Total length** 101.50, **Height/B+** 13.60, **Coil bolt** M6, **No./terminals** 3



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#Available while stock last, * Program development.

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**NEW PRODUCT**
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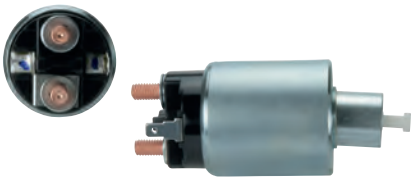
## 333964 Solenoid

12 **V**, **B+** M8, **OD** 43.20, **OD/cover** 38.50, **Total length** 98.00, **Height/B+** 14.50, **Coil bolt** M6, **Coil bolt 2** 13.80, **No./terminals** 3

## 334128 Solenoid

**Servicing:** 1195239

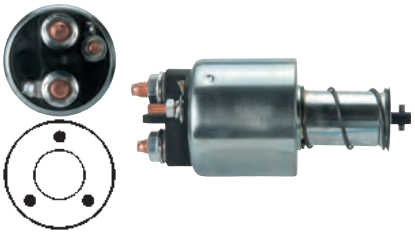
12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 43.20, **Total length** 96.70, **Height/B+** 15.00, **Coil bolt** M6, **Coil bolt 2** 12.50



## 334304 Solenoid

**Servicing:** TM000A37001

12 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 49.50, **Height/B+** 14.00, **Coil bolt** M8, **Coil bolt 2** 12.00, **No./terminals** 3



## 335192 Solenoid

**Manufacturer:** Valeo

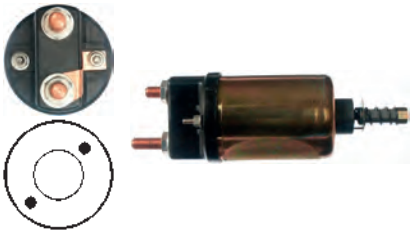
**Replacing:** 594638, 594411

**Servicing:** D6RA105, D6RA115, D7R44, D7R47, D7R49, D8R49

12 **V**, **B+** M8, **OD** 54.00, **OD/cover** 44.50, **Total length** 122.00, **Height/B+** 15.50, **Coil bolt** M8, **Coil bolt 2** 11.50, **No./terminals** 3

**Alternative no.:** 232041 5★

## 24 V



## 132966 5★ Solenoid

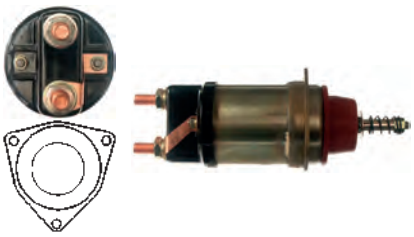
**Manufacturer:** Valeo

**Replacing:** 182424, 099686

**Servicing:** D13E111, D13E111TE, D13E116, D13E73, D13E73TE, D13E74, D13E74TE, D13E81, D13E81T, D13E88, D13E95

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 65.30, **OD/cover** 70.00, **Total length** 212.45, **Height/B+** 29.20, **Width/kl. 50** 12.90, **Coil bolt** M10, **Coil bolt 2** 17.35, **No./terminals** 3

*Cap: HC-CARGO 138172. Moving contact: HC-CARGO 138173.*



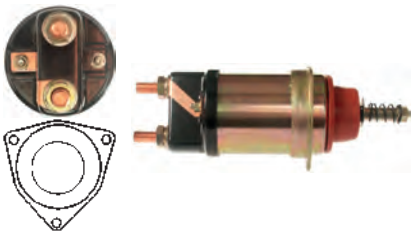
## 132967 Solenoid

**Replacing:** CED616TE, CED616, 182423, 099687

**Servicing:** D13E100TE, D13E104TE, D13E105

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 65.85, **OD/cover** 69.75, **Total length** 224.00, **Height/B+** 28.40, **Width/kl. 50** 13.60, **Coil bolt** M10, **Coil bolt 2** 16.85, **No./terminals** 3

*Cap: HC-CARGO 138172. Moving contact: HC-CARGO 138173.*



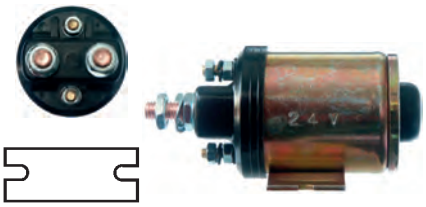
## 132968 Solenoid

**Replacing:** CED621, 182432, 181142, 101091

**Servicing:** D13E107TE, D13E109TE, D13E110, D13E110TE, D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, D13E76, D13E77, D13E77T

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 68.20, **OD/cover** 69.85, **Total length** 228.70, **Height/B+** 28.85, **Width/kl. 50** 12.40, **Coil bolt** M10, **Coil bolt 2** 17.55, **No./terminals** 3

*Cap: HC-CARGO 136005. Moving contact: HC-CARGO 138174.*

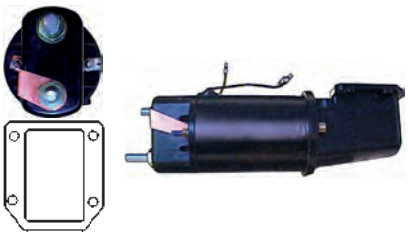


## 133697 Solenoid

**Replacing:** CEZ113, 098932

24 **V**, 100 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 47.65, **OD/cover** 52.35, **Total length** 106.25, **Height/B+** 19.00, **Width/kl. 15a** 13.85, **Width/kl. 50** 14.30, **Coil bolt** M8, **Coil bolt 2** 19.00, **Seconds** 5, **No./terminals** 4

*Universal.*



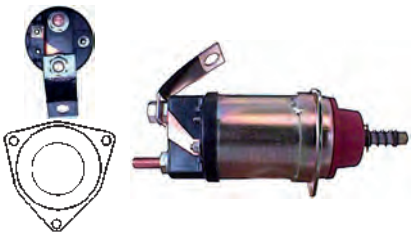
## 135292 Solenoid

**Replacing:** CED71, 182430, 046695

**Servicing:** D15E29, D15E29TE, D15E30, D15E30TE

24 **V**, **B+** M10, **OD** 74.70, **OD/cover** 74.70, **Total length** 276.00, **Height/B+** 29.70, **Coil bolt** M10, **Coil bolt 2** 14.10, **No./terminals** 3

*Cap: HC-CARGO 138176. Moving contact: HC-CARGO 138175.*



## 135820# 5★ Solenoid

**Manufacturer:** Valeo

**Replacing:** CED624, 594075

**Servicing:** D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13HP702, D13HP705, D13HP709

24 **V**, **B+** M10, **Kl. 15a** M5, **Kl. 50** M5, **OD** 70.65, **OD/cover** 70.00, **Total length** 228.30, **Height/B+** 28.60, **Width/kl. 15a** 6.25, **Width/kl. 50** 12.65, **Coil bolt** M10, **Coil bolt 2** 17.50, **No./terminals** 4

*Cap: HC-CARGO 233535.*



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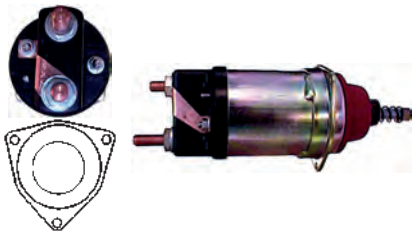
All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 138945 5★ Solenoid

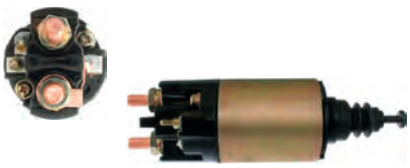
**Manufacturer:** Valeo

**Replacing:** 594220

**Servicing:** D13HP605, D13HP607, D13HP608

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 65.80, **OD/cover** 69.95, **Total length** 229.00, **Height/B+** 28.20, **Width/kl. 50** 12.85, **Coil bolt** M10, **Coil bolt 2** 16.85, **No./terminals** 3

*Cap: HC-CARGO 233535.*



## 235151 Solenoid

**Servicing:** M000A0301

24 **V**, **B+** M10, **Kl. 50** M5, **OD** 64.11, **Total length** 213.00, **Height/B+** 18.16, **Coil bolt** M10, **Coil bolt 2** 17.79, **No./terminals** 3

## Safety Switches

### 24 V

## 235150 Safety Switch

**Servicing:** M000A0301

24 **V**

## Solenoid Parts

### Solenoid Caps

## 131330 Solenoid Cap

**Servicing:** CED401, CED403, CED404, CED407, CED408, CED409, CED41, CED410, CED413, CED42, D11E188, D11E192, D8E111, D8E116, D8E74

**OD** 52.15, **No./terminals** 3

*HC-CARGO 131000, 132623.*

## 131333 Solenoid Cap

**Servicing:** CED437, CED446, CED448, CED454, CED458, CED460, CED468, D10E66, D10E72, D10E74, D8E107, D8E117, D8E121, D8E130, D8E131

**OD** 52.00, **No./terminals** 3

*HC-CARGO 131798.*

Pkg. 5

## 132033 Solenoid Cap

**Servicing:** 102217, 594047, 594048, 594119, 594288, CED529, D6RA30, D6RA40, D6RA47, D7E1, D9E101, D9E108, D9E36, D9E38, D9E48

**OD** 51.60, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 131171.*

Pkg. 5

## 132034 Solenoid Cap

**Servicing:** 101062, 188839, CED521, D6RA100, D6RA101, D6RA104, D6RA37, D6RA42, D6RA43, D6RA51, D6RA511, D6RA57, D6RA571, D6RA572

**OD** 51.35, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 135390.*

Pkg. 5

## 132826 Solenoid Cap

**Servicing:** 102849, 103794, 104594, 104604, 105489, 106142, 106143, 1250128, CED533, CED537, CED538, CED540, CED541, CED544, CED546

**OD** 51.35, **No./terminals** 3, **Bracket type** Crimp

*HC-CARGO 131584, 132024, 132025, 132976, 133163, 133532, 133533, 234579.*

## 133155 Solenoid Cap

**Servicing:** CED5, CED506, CED519, CED53, CED58, D11E109, D11E142, D11E159, D11E172, D11E272

**OD** 60.00, **No./terminals** 3

*HC-CARGO 130997, 133143.*

## 133156 Solenoid Cap

**Servicing:** 99378, CED517, D9E131, D9E132, D9E43, D9E44, D9E83

**OD** 51.50, **No./terminals** 3, **Bracket type** Crimp

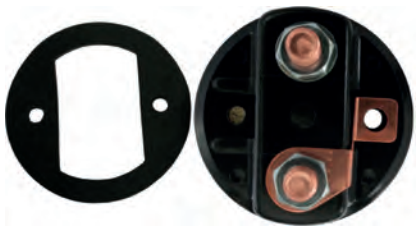
*HC-CARGO 133151.*

Pkg. 5

## 133287 Solenoid Cap

**Servicing:** 1250300, 1250302, M000A0240Z, M04686, M39646, M42373, M43196, M52100, M53486, M60082, M62957, MC107023, MC108024

**OD** 49.45, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132917, 133052, 133288, 138618, 139408, 231977.*



## 133620 Solenoid Cap

**Servicing:** 074764, CED502, CED504, CED510, CED512, D10E48, D10E63, D10E80, D11E120, D11E131, D11E156, D11E158, D11E184, D11E191

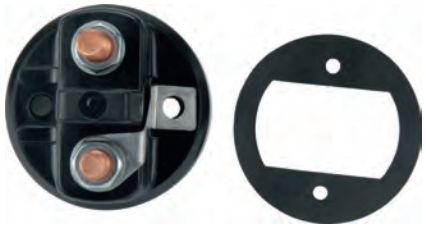
**OD** 60.65, **No./terminals** 3
*HC-CARGO 133502.*

Pkg. 5

## 133633 Solenoid Cap

**Servicing:** 105254, 182462, CED504, CED510, CED512, CED543, D9E100, D9E140, D9E200, D9E300, D9E81

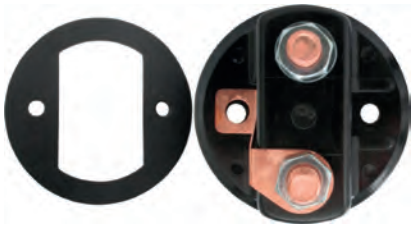
**OD** 51.80, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 133534.*



## 134145 Solenoid Cap

**Servicing:** 096666, 098048, 182452, CED511, CED514, D11E109, D11E142, D11E159, D11E163, D11E169, D11E173, D11E176, D11E177, D11E187

**OD** 59.65, **No./terminals** 3
*HC-CARGO 132268.*



## 134401 Solenoid Cap

**Servicing:** 073302, 182438, CED501, CED539, D11E119, D11E119T, D11E120, D11E126, D11E131, D11E137, D11E154, D11E155, D11E158

**OD** 60.60, **No./terminals** 3
*HC-CARGO 131071.*

## 134402 Solenoid Cap

**Replacing:** 134402

**Servicing:** 105119C, 182458, 594438, 626002, D6RA105, D6RA114, D6RA115, D6RA12, D6RA16, D6RA161, D6RA168, D6RA18, D6RA22, D6RA38

**OD** 51.90, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 132977, 133128, 133166, 232011.*

## 134626 Solenoid Cap

**Servicing:** MG120413, MG122404, MG232415, TM000A06901

**OD** 53.55, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 235077, 138820, 231981.*

## 134915 Solenoid Cap

**Servicing:** MG112014, MP112040

**OD** 49.25, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 133289.*

## 136005 Solenoid Cap

**Replacing:** 182148

**Servicing:** D13E107TE, D13E109TE, D13E110, D13E110TE, D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, D13E76, D13E77, D13E77T

**OD** 70.25, **No./terminals** 3
*HC-CARGO 132968.*

Pkg. 5

## 136367 Solenoid Cap

**Servicing:** D6G33, D6G332, D6RA132, D6RA162, D6RA163, D6RA167, D6RA249, D6RA32, D6RA62, D6RA65, D6RA67, D7EP12, D7R19, D7R28

**OD** 51.85, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 136255, 233708.*

**Alternative no.:** 335195

## 138172 Solenoid Cap

**Servicing:** 182428, CED67, D11E122, D11E122T

**OD** 69.65, **No./terminals** 3
*HC-CARGO 132967, 136669.*

## 138176 Solenoid Cap

**Replacing:** 182152

**Servicing:** 182152, D15E29, D15E29TE, D15E30, D15E30TE

**OD** 74.80, **No./terminals** 3
*HC-CARGO 135292.*



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#Available while stock last, * Program development.

Pkg. 5

## 231268 Solenoid Cap

**Servicing:** 594347, 594401, CED5033, D6RA181, D6RA293, D6RA59, D6RA81, D6RA83, D6RA91, D6RA92, D6RA93, D6RAP229, D7E18, D7E29

**OD** 51.75, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 139476, 234153.*

Pkg. 5

## 231765 Solenoid Cap

**Servicing:** 190895, 594181, D6G3, D6RA110, D6RA37, D6RA51, D6RA511, D6RA57, D6RA571, D7E16, D7E2, D7E23, D7E25, D7E5, D7G3, TS18E13

**OD** 51.50, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 231610.*

**Alternative no.:** 335191

Pkg. 5

## 231766 Solenoid Cap

**Servicing:** 594181, D8R27, D8R29

**OD** 51.50, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 232012.*

Pkg. 5

## 232010 Solenoid Cap

**Servicing:** 594054, D9R116, D9R144

**OD** 51.55, **No./terminals** 4,
**Bracket type** Crimp
*HC-CARGO 137300.*

## 233076 Solenoid Cap

**Servicing:** 594380, 594391, D7ES1, D7ES2, D7ES4, D7ES5, D7RS129, D7RS130, D7RS29, D7RS30, D7RS301

**OD** 52.00, **No./terminals** 3
*HC-CARGO 233795, 234388.*

## 233481 5★ Solenoid Cap

**Replacing:** 594297

**Servicing:** D13HP601

**OD** 70.00, **No./terminals** 4
*Valeo.*

## 233535 5★ Solenoid Cap

**Replacing:** 594292

**Servicing:** D13E120TE, D13HP605, D13HP607, D13HP608, D13HP702, D13HP709

**OD** 70.02, **No./terminals** 2
*HC-CARGO 138945. Bosch.*

Pkg. 5

## 235384 Solenoid Cap

**Servicing:** TM000A27301, TM000A27601, TM000A37201

**OD** 47.16, **No./terminals** 3,
**Bracket type** Crimp
*HC-CARGO 235210.*

Pkg. 5

## 236240 Solenoid Cap

**Servicing:** D7G4

**OD** 52.23, **No./terminals** 4,
**Bracket type** Crimp

Pkg. 5

## 236627 Solenoid Cap

**Servicing:** 191335, D6GS12, D6GS13, D6GS14, D7GS10, D7GS8, TS18E3, TS18ER20

**OD** 51.85, **No./terminals** 3

Pkg. 5

## 236802 Solenoid Cap

**Servicing:** D6G1, D6G32, D6G321, D7E52, G6G32

**OD** 52.00, **No./terminals** 2

Pkg. 5

## 332682 Solenoid Cap

**Servicing:** D7E48, TS12E9

**OD** 52.00, **No./terminals** 3



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#Available while stock last, * Program development.



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## Moving Contacts

Pkg. 5

### 132037 Moving Contact

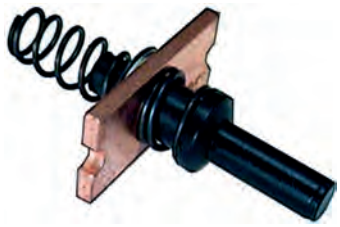
**Replacing:** 132037

**Servicing:** 103794, 104594, 104694, 105119C, CED538, CED541, CED546, D6G332, D6RAP229, D7E27, D7E47, D7G11, D7R17, D7R19, D9E140

**Shaft measurement** 29.25, **Thickness** 2.45

**Alternative no.:** B132037

Pkg. 5



### 132124 Moving Contact

**Servicing:** 099378, 099932, 101062, 102190, 102849, 104327, 105119C, 190895, CED517, CED518, CED521, CED528, CED533, CED540, D6G1

**Length** 28.30, **Shaft measurement** 27.80, **Thickness** 2.50, **Width** 14.00

Pkg. 5

### 132145 Moving Contact

**Servicing:** CED417, CED418, CED421, CED423, CED427, CED428, CED434, CED435, CED436, CED437, CED438, CED439, CED441, CED442, CED444

**Length** 28.30, **Shaft measurement** 39.15, **Thickness** 2.30, **Width** 14.00

Pkg. 5

### 132146 Moving Contact

**Servicing:** CED514, CED519, CED601, CED615, CED616, CED621

**Length** 33.30, **Shaft measurement** 33.70, **Thickness** 2.55, **Width** 15.00

Pkg. 10

### 133275 Moving Contact

**Servicing:** 1250300, 1250302, M000A0240Z, M39376, M39646, M42373, M43168, M43196, M53486, MC107023, MC108024, MC109018, MC109021

**Length** 26.00, **Shaft measurement** 26.00, **Thickness** 2.60, **Width** 16.00/11.00

Pkg. 5

### 135363 Contact Plate

**Length** 33.35, **Thickness** 3.00, **Width** 15.00

Pkg. 5

### 138173 Contact Plate

**Servicing:** CED67, D13E111TE

**Length** 46.30, **Thickness** 3.00, **Width** 18.00

Pkg. 5

### 138174 Contact Plate

**Servicing:** 182148

**Length** 46.40, **Thickness** 5.00, **Width** 18.00

Pkg. 5

### 235826 Solenoid Cap

**OD** 49.50

Pkg. 100

### B132037 Moving Contact

**Replacing:** 132037

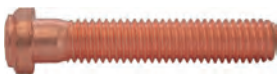
**Servicing:** 190895, D6G1, D6G321, D6RA105, D6RA110, D6RA115, D6RA91, D7E22, D7E32, D7E39, D7G26, D7G3, D7G4, D7R40, D7R48, D8R49

**Shaft measurement** 28.71, **Thickness** 2.42

**Alternative no.:** 132037

## Fixed Contacts

Pkg. 10

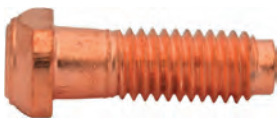


### 134152 Fixed Contact

**Servicing:** D6G1, D6G321, D6RA91, D7E27, D7E47, TS22E45

**Total length** 47.65, **Length/rear collar** 42.00, **Thread length** 36.20, **Thread size** M8

Pkg. 10



### 134153 Fixed Contact

**Servicing:** D6G1, D6G321, D7E27, D7E47, D9E140, ESW10E40, ESW20E26, TS18ER20, TS22E45

**Total length** 28.50, **Length/rear collar** 23.50, **Thread length** 15.85, **Thread size** M8



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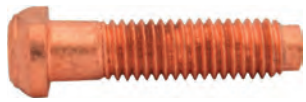
#Available while stock last, * Program development.

Pkg. 10



## 134154 Fixed Contact

**Servicing:** D6RA105, D6RA110, D6RA115, D7E22, D9E140, ESW10E40, ESW20E26, TS14E110, TS18ER20

**Total length** 37.50, **Length/rear collar** 32.00, **Thread length** 22.70, **Thread size** M8

### Various

Pkg. 5

## 138601 Gasket

**Servicing:** D13E110, D13E110TE, D13E111, D13E111TE, D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, D13HP601, D13HP607

**ID** 21.65, **ID/mount. hole** 5.35, **OD** 64.45, **Thickness** 2.45, **Material** Rubber

## 230950 Plunger

**Replacing:** 594417, 594289

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32

**OD** 25.00, **Length** 48.80, **Fork** w/o

*Lever: HC-CARGO 231148.*

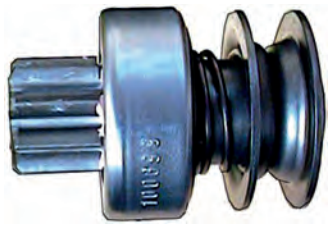
### Drives

## 130425 Drive

**Replacing:** 060991

**Servicing:** 6139B, 6139C

**ID** 12.00, **OD** 29.00, **OD/housing** 46.00, **Total length** 59.85, **Splines A** 9, **No./teeth** 9, **Rotation** ACR



## 130432 Drive

**Replacing:** 096118, 093297, 092079, 078862, 076651

**Servicing:** 532005A, 532007A, 532020A, 532020B, 532026A, 533000A, 533002A, 533003A, 533004A, 534003A, 534003B, 534003C, 534004A

**ID** 12.00, **OD** 25.25, **OD/housing** 46.20, **Total length** 68.05, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 130434 Drive

**Replacing:** 079692

**Servicing:** 532001B, 532017A

**ID** 12.00, **OD** 25.30, **OD/housing** 46.45, **Total length** 61.70, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 130456 Drive

**Replacing:** 070672, 055105

**Servicing:** 182442, D11E109, D11E142, D11E143, D11E159

**ID** 14.00, **OD** 29.00, **OD/housing** 59.20, **Total length** 76.15, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 130461 Drive

**Replacing:** NE485, NE185, 097298, 096859, 093670, 093509, 092179, 078265, 075165, 075162, 073684, 059058

**Servicing:** D10E48, D10E63, D10E80, D8E104, D8E122, D8E124, D8E76, D8E96

**ID** 12.00, **OD** 25.30, **OD/housing** 46.90, **Total length** 69.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 130463 Drive

**Replacing:** 095381, 093321, 092448, 092181, 079011, 078861, 077776

**Servicing:** D8E107, D8E115, D8E117, D8E129, D8E133, D8E134, D8E137, D8E139, D8E140, D8E147, D8E151, D8E54, D9E11, D9E18, D9E19

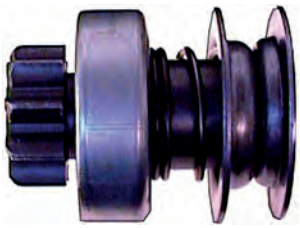
**ID** 12.00, **OD** 25.30, **OD/housing** 46.85, **Total length** 66.40, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 130757 Drive

**Replacing:** NE160, 075679, 053770

**Servicing:** D11E126, D11E93

**ID** 14.00, **OD** 36.10, **OD/housing** 53.15, **Total length** 75.75, **Splines A** 6, **No./teeth** 9, **Rotation** CR



## 130758 Drive

**Replacing:** 077171

**Servicing:** D8E110, D8E116, D8E99

**ID** 12.00, **OD** 29.00, **OD/housing** 41.25, **Total length** 59.00, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 130759 Drive

**Replacing:** NE184, 097062, 093623, 076980

**Servicing:** D8E121, D8E142, D8E152, D8E21, D8E81, D9E12, D9E20, D9E22, D9E26, D9E34, D9E35, D9E37, D9E41

**ID** 12.00, **OD** 25.25, **OD/housing** 46.30, **Total length** 59.45, **Splines A** 12, **No./teeth** 9, **Rotation** CR



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# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## 130760 Drive

**Replacing:** 095464

**Servicing:** D8E130, D8E131, D8E54

**ID** 12.00, **OD** 25.25, **OD/housing** 46.40, **Total length** 60.10, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 130761 Drive

**Replacing:** 095958, 095956

**Servicing:** D11E156, D11E161, D11E180

**ID** 14.00, **OD** 36.00, **OD/housing** 54.34, **Total length** 77.55, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 130762 Drive

**Replacing:** 095990

**Servicing:** D11E142, D11E159, D11E165

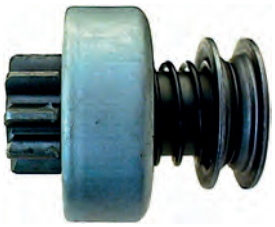
**ID** 14.00, **OD** 29.20, **OD/housing** 54.25, **Total length** 76.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 130948 Drive

**Replacing:** 106009, 098896

**Servicing:** D9E31, D9E32, D9E40, D9E45, D9E53, D9E64, D9E75, D9E82, D9E87, D9E95

**ID** 12.00, **OD** 25.30, **OD/housing** 46.25, **Total length** 69.20, **Splines A** 9, **No./teeth** 9, **Rotation** CR



## 131068 Drive

**Replacing:** 095442

**Servicing:** D11E153, D11E153T

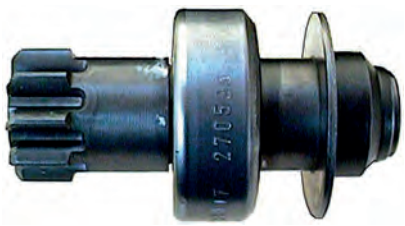
**ID** 14.00, **OD** 36.25, **OD/housing** 65.55, **Total length** 75.80, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 131111 Drive

**Replacing:** NE197, 99931, 181804, 099931, 013610

**Servicing:** D9E100, D9E101, D9E109, D9E110, D9E113, D9E114, D9E124, D9E125, D9E127, D9E129, D9E136, D9E137, D9E138, D9E200, D9E237

**ID** 12.60, **OD** 26.00, **OD/housing** 45.40, **Total length** 55.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR



## 131117 Drive

**Replacing:** 097843, 096507

**Servicing:** D11E163, D11E169, D11E176, D11E177

**ID** 12.00, **OD** 29.23, **OD/housing** 53.25, **Total length** 84.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 131170 Drive

**Replacing:** 099738

**Servicing:** D11E172, D11E272

**ID** 12.00, **OD** 27.75, **OD/housing** 46.00, **Total length** 61.60, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 131188 Drive

**Replacing:** 096119, 093625, 092081, 078863, 075593

**Servicing:** 532011A, 533001A, 6155H, 6155J, 6155K, 6155L

**ID** 12.00, **OD** 25.30, **OD/housing** 47.05, **Total length** 67.80, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 131343 Drive

**Replacing:** NE155, 589173, 059390

**Servicing:** D15E29, D15E29TE, D15E30, D15E30TE

**ID** 20.00, **OD** 46.80, **OD/housing** 65.25, **Total length** 151.70, **Splines A** 6, **No./teeth** 12, **Rotation** CR

## 131771 Drive

**Replacing:** 570904

**ID** 12.10, **OD** 26.00, **OD/housing** 47.00, **Total length** 108.00, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 131999 Drive

**Replacing:** NE883, NE209, 594245, 185182, 182047, 105538

**Servicing:** D9R134, D9R73

**ID** 12.00, **OD** 31.80, **OD/housing** 54.00, **Total length** 61.50, **Splines A** 9, **No./teeth** 12, **Rotation** CR



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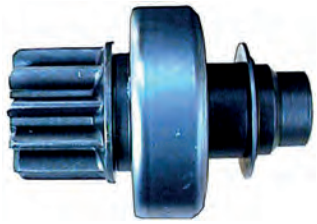
#Available while stock last, * Program development.

## 132020 Drive

**Replacing:** 105540

**Servicing:** D9R121, D9R84

**ID** 12.00, **OD** 27.70, **OD/housing** 54.00, **Total length** 61.50, **Splines A** 9, **No./teeth** 10, **Rotation** CR

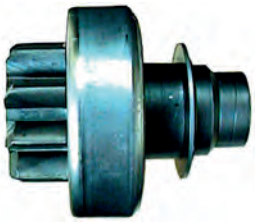


## 132021 Drive

**Replacing:** 182177, 181277, 180826

**Servicing:** D9R90

**ID** 12.00, **OD** 34.40, **OD/housing** 54.50, **Total length** 76.50, **Splines A** 9, **No./teeth** 11, **Rotation** CR



## 132022 Drive

**Replacing:** 594040, 181068

**Servicing:** D9R105, D9R1050, D9R91

**ID** 12.00, **OD** 36.50, **OD/housing** 54.00, **Total length** 61.50, **Splines A** 9, **No./teeth** 9, **Rotation** CR

*Gear shaft: HC-CARGO 133336.*

## 132170 Drive

**Replacing:** 079646

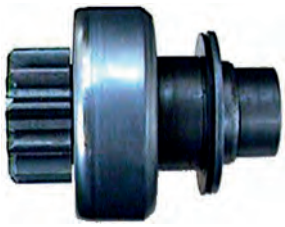
**ID** 14.00, **OD** 39.75, **OD/housing** 60.00, **Total length** 84.75, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 132175 Drive

**Replacing:** 101292

**Servicing:** D9E131, D9E132, D9E43, D9E44, D9E83

**ID** 12.00, **OD** 25.25, **OD/housing** 47.00, **Total length** 64.65, **Splines A** 9, **No./teeth** 9, **Rotation** CR



## 132177 Drive

**Replacing:** 103611

**Servicing:** D10E85, D10E92, D10E921, D10E922

**ID** 12.00, **OD** 29.00, **OD/housing** 46.00, **Total length** 59.00, **Splines A** 9, **No./teeth** 11, **Rotation** CR

## 132178 Drive

**Replacing:** 104502, 103624

**Servicing:** D11E184, D11E188

**ID** 11.65, **OD** 27.75, **OD/housing** 54.00, **Total length** 76.10, **Splines A** 12, **No./teeth** 10, **Rotation** CR

## 132181 Drive

**Replacing:** 106140

**Servicing:** 534023A, 534029A, 534031A, 534032A, 534039A, 534042A, 534042B, 534043A, 534044A, 534047A, 534054D, 534055E

**ID** 12.00, **OD** 25.25, **OD/housing** 46.25, **Total length** 53.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR

*w/ lever.*

## 132200 Drive

**Replacing:** 105332, 105325

**Servicing:** D11E191, D11E192

**ID** 12.00, **OD** 27.15, **OD/housing** 46.55, **Total length** 78.55, **Splines A** 9, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

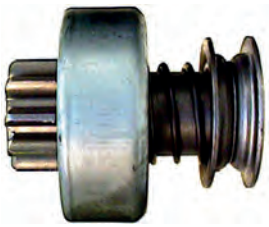
**Alternative no.:** 132200Z

## 132206 Drive

**Replacing:** 104927

**Servicing:** D10E88, D10E881, D10E882, D10E89

**ID** 12.00, **OD** 25.30, **OD/housing** 47.00, **Total length** 59.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR



## 132899 Drive

**Replacing:** 075379

**Servicing:** D11E120, D11E131, D11E158

**ID** 14.00, **OD** 34.25, **OD/housing** 65.55, **Total length** 75.75, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 132962 Drive

**Replacing:** NE575, NE515, NE195, 589074, 101598, 094635, 092718, 079333

**Servicing:** D13E107TE, D13E109TE, D13E110, D13E110TE, D13E77, D13E77T, D13E86TE, D13E87TE, D13E94TE, D13E96TE

**ID** 16.00, **OD** 46.85, **OD/housing** 65.35, **Total length** 150.50, **Splines A** 6, **No./teeth** 12, **Rotation** CR

*For wet clutch.*



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.

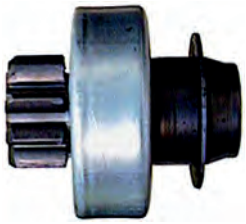
O.E.M. names and numbers are used for reference purposes only.

## 132964 Drive

**Replacing:** NE169, 589077, 094202

**Servicing:** D13E105, D13E111, D13E111TE, D13E95

**ID** 16.70, **OD** 46.65, **OD/housing** 65.30, **Total length** 122.50, **Splines A** 6, **No./teeth** 12, **Rotation** CR



## 132974 Drive

**Replacing:** NE784, NE778, 594031, 594029, 184448

**Servicing:** D6RA10, D6RA12, D6RA16, D6RA18, D6RA20, D6RA23, D6RA26, D6RA37, D6RA38, D6RA41, D6RA45, D6RA46, D6RA5, D6RA51, D6RA57

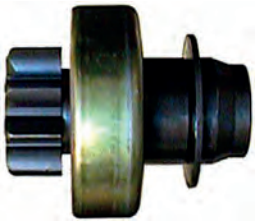
**ID** 12.00, **OD** 25.80, **OD/housing** 46.00, **Total length** 51.00, **Splines A** 9, **No./teeth** 9

## 132975 Drive

**Replacing:** 594032, 184488

**Servicing:** D6RA13

**ID** 12.00, **OD** 29.30, **OD/housing** 48.00, **Total length** 51.00, **Splines A** 9, **No./teeth** 9, **Rotation** CR



## 133233 Drive

**Replacing:** NE207, 180754

**Servicing:** D9E93

**ID** 12.00, **OD** 28.80, **OD/housing** 47.00, **Total length** 54.80, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 133336 5★ Drive

**Manufacturer:** Valeo

**Replacing:** NE212, 182178

**Servicing:** D9R91

**OD** 36.40, **OD/housing** 53.80, **Total length** 129.20, **No./teeth** 9, **Rotation** CR

*Drive: HC-CARGO 132022.*

## 133442 Drive

**Replacing:** NE187, 589053, 588799, 097338, 093079, 059305

**Servicing:** D11E122, D11E122T, D11E128, D11E128T, D11E130, D11E89, D11E89T, D11E89TE, D11E90, D11E90T

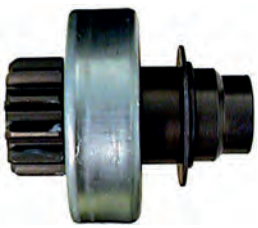
**ID** 17.00, **OD** 40.20, **OD/housing** 65.60, **Total length** 102.00, **Splines A** 6, **No./teeth** 10, **Drive type** Bronze, **Rotation** CR

*Bronze.*

## 133712 Drive

**Replacing:** 074515

**ID** 12.55, **OD** 28.00, **OD/housing** 47.00, **Total length** 59.55, **Splines A** 10, **No./teeth** 8, **Rotation** CR



## 133897 Drive

**Replacing:** NE776, 594042, 186456, 184530, 182176, 180827

**Servicing:** D9R112, D9R118, D9R119, D9R122, D9R135, D9R149, D9R89, D9R99, D9RP160, D9RP256

**ID** 12.00, **OD** 29.15, **OD/housing** 46.15, **Total length** 61.55, **Splines A** 9, **No./teeth** 11, **Rotation** CR

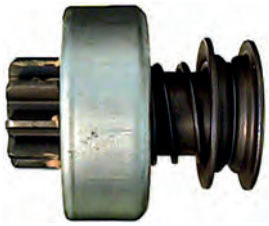
## 134292 Drive

**Replacing:** 183412

**Servicing:** D9R97

**ID** 12.00, **OD** 34.00, **OD/housing** 53.25, **Total length** 76.50, **Splines A** 9, **No./teeth** 11, **Rotation** ACR

*OE w/ gear shaft: HC-CARGO 139288.*



## 134615 Drive

**Replacing:** 095976

**Servicing:** D11E158

**ID** 14.00, **OD** 34.25, **OD/housing** 65.60, **Total length** 76.00, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 134645# Drive

**Replacing:** 099623

**Servicing:** D10E75, D10E81, D10E83

**ID** 12.00, **OD** 25.60, **OD/housing** 47.00, **Total length** 71.80, **Splines A** 12, **No./teeth** 9, **Rotation** CR

## 135083 Drive

**Replacing:** NE830, 594108, 186020, 185441

**Servicing:** D6RA100, D6RA132, D6RA249, D6RA293, D6RA32, D6RA33, D6RA39, D6RA46, D6RA48, D6RA49, D6RA56, D6RA59, D6RA61, D6RA62

**ID** 12.00, **OD** 27.70, **OD/housing** 46.00, **Total length** 51.45, **Splines A** 9, **No./teeth** 10, **Rotation** CR



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## 135084 Drive

**Replacing:** NE831, 594368, 594136, 188256, 185290

**Servicing:** D7R1, D7R11, D7R15, D7R151, D7R2, D7R24, D7R3, D7R33, D7R4, D7R45, D7R64

**ID** 12.00, **OD** 27.65, **OD/housing** 54.00, **Total length** 54.50, **Splines A** 9, **No./teeth** 10, **Rotation** CR

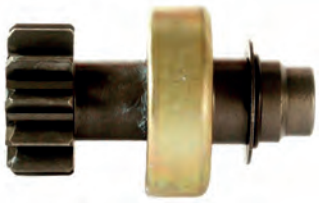
## 135085 Drive

**Replacing:** 594163

**Servicing:** D6RA46

**ID** 12.00, **OD** 25.25, **OD/housing** 46.50, **Total length** 55.45, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

**Alternative no.:** 333203 5★



## 135282 Drive

**Replacing:** 184194

**Servicing:** D9R116, D9R144

**ID** 12.00, **OD** 42.00, **OD/housing** 53.00, **Total length** 83.85, **Splines A** 9, **No./teeth** 11, **Rotation** CR

*Gear shaft: HC-CARGO 230963.*

## 135389 Drive

**Replacing:** 594185, 549185, 185915

**Servicing:** 188839, D7R12, D7R127, D7R13, D7R16, D7R18, D7R19, D7R20, D7R25, D7R26, D7R27, D7R28, D7R281, D7R32, D7R35, D7R40

**ID** 12.00, **OD** 29.00, **OD/housing** 54.00, **Total length** 54.50, **Splines A** 9, **No./teeth** 11, **Rotation** CR

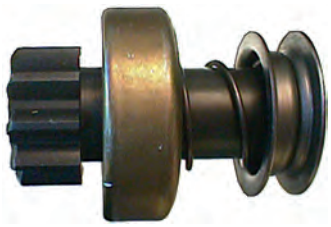
**Alternative no.:** 335230

## 135647 Drive

**Replacing:** 594214, 186938, 186867

**Servicing:** D6RA137, D6RA138, D6RA141, D6RA161, D6RA165, D6RA185, D6RA187, D6RA188, D6RA51, D6RA511, D6RA53, D6RA571, D6RA572

**ID** 12.00, **OD** 25.30, **OD/housing** 46.30, **Total length** 51.60, **Splines A** 5, **No./teeth** 9, **Rotation** CR

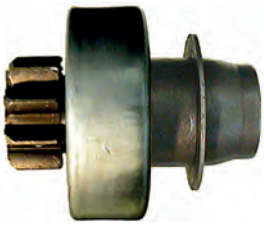


## 136426 Drive

**Replacing:** NE484, NE483, 074658, 056328

**Servicing:** D11E119, D11E119T, D11E129, D11E129T, D11E137, D11E141, D11E154, D11E155, D11E92, D11E92T

**ID** 16.00, **OD** 40.00, **OD/housing** 65.65, **Total length** 82.65, **Splines A** 6, **No./teeth** 10, **Rotation** CR

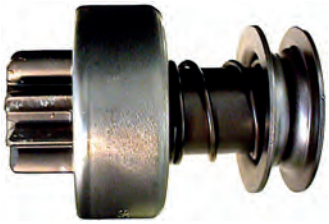


## 136619 Drive

**Replacing:** 180753

**Servicing:** D9E92

**ID** 12.00, **OD** 25.25, **OD/housing** 47.00, **Total length** 54.80, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

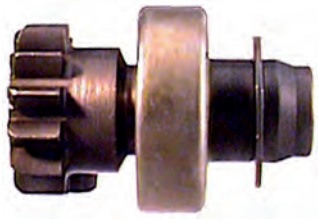


## 136642 Drive

**Replacing:** 099394, 097394

**Servicing:** D11E167T, D11E202

**ID** 14.10, **OD** 35.50, **OD/housing** 60.00, **Total length** 83.70, **Splines A** 12, **No./teeth** 9, **Rotation** CR



## 137271 Drive

**Replacing:** 101910

**Servicing:** D9E51

**ID** 12.00, **OD** 40.15, **OD/housing** 47.65, **Total length** 70.25, **Splines A** 9, **No./teeth** 13, **Rotation** ACR

## 137455 Drive

**Replacing:** 594086, 185457

**Servicing:** D6RA22, D6RA52

**ID** 12.00, **OD** 29.50, **OD/housing** 47.60, **Total length** 50.85, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 137733 Drive

**Replacing:** 594419, 594252, 594177

**Servicing:** 626002, D6RA100, D6RA107, D6RA109, D6RA114, D6RA133, D6RA162, D6RA163, D6RA249, D6RA293, D6RA56, D6RA59, D6RA62, D6RA70

**ID** 12.00, **OD** 27.75, **OD/housing** 46.35, **Total length** 51.70, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 138113 Drive

**Replacing:** 594247, 187077

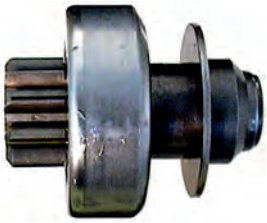
**Servicing:** D6RA76, D6RA77, D6RA78, D6RA79

**ID** 12.10, **OD** 27.85, **OD/housing** 47.55, **Total length** 51.45, **Splines A** 10, **No./teeth** 8, **Rotation** CR



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 138208 Drive

**Replacing:** 180719

**Servicing:** D11E272

**ID** 12.00, **OD** 27.70, **OD/housing** 53.50, **Total length** 65.45, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 138408 Drive

**Replacing:** 594106, 184671

**Servicing:** D6RA11, D6RA40

**ID** 12.00, **OD** 25.50, **OD/housing** 47.65, **Total length** 65.90, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 139153 Drive

**Replacing:** 594033, 594030

**Servicing:** D6RA15, D6RA7

**ID** 12.00, **OD** 25.20, **OD/housing** 48.00, **Total length** 56.65, **Splines A** 9, **No./teeth** 9, **Rotation** CR

## 139318 Drive

**Replacing:** 594034, 184795

**Servicing:** D6RA17, D6RA19, D6RA27, D6RA29, D6RA34, D6RA50, D6RA54, D6RA60

**ID** 12.00, **OD** 29.65, **OD/housing** 47.65, **Total length** 66.70, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 139320 Drive

**Replacing:** 187428

**Servicing:** D7E2

**ID** 11.00, **OD** 25.00, **OD/housing** 46.00, **Total length** 43.00, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 139473 Drive

**Replacing:** NE949, 594287, 492828, 188251, 187996, 187863, 187336

**Servicing:** D7E1, D7E16, D7E23, D7E26, D7E39, D7E5, D7E52, TS8E6

**ID** 11.00, **OD** 25.30, **OD/housing** 46.00, **Total length** 41.00, **Splines A** 5, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 335234

## 139477 Drive

**Replacing:** NE971, 594345, 187788, 182848

**Servicing:** 105119C, D7E15, D7E18, D7E19, D7E20, D7E27, D7E38, D7E4, D7E47, D7E6, D7E8, D7ED28, D7EP12

**ID** 11.00, **OD** 23.80, **OD/housing** 46.00, **Total length** 44.00, **Splines A** 5, **No./teeth** 8, **Rotation** CR

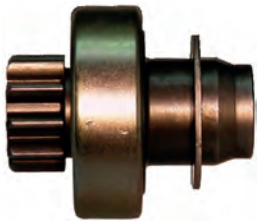
*Drive: HC-CARGO 139477 can only be used w/ Armature: HC-CARGO 139434.*

## 139478 Drive

**Replacing:** 594279, 187528, 059427

**Servicing:** D7R12, D7R127, D7R19, D7R27, D7R28, D7R281, D7R32, D7RP123

**ID** 12.00, **OD** 29.00, **OD/housing** 54.00, **Total length** 54.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

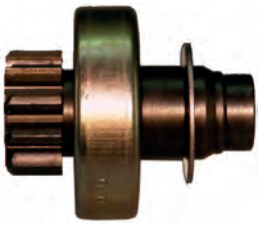


## 139898# Drive

**Replacing:** 183776, 182243

**Servicing:** D9E108

**ID** 12.20, **OD** 26.75, **OD/housing** 47.85, **Total length** 54.75, **Splines A** 9, **No./teeth** 10, **Rotation** CR



## 139905 Drive

**Replacing:** 594251, 186321

**Servicing:** D9R142

**ID** 12.00, **OD** 31.90, **OD/housing** 54.40, **Total length** 61.30, **Splines A** 9, **No./teeth** 10, **Rotation** CR

## 230253# 5★ Drive

**Manufacturer:** Valeo

**Replacing:** NE210, 182052

**Servicing:** D9R121, D9R84

**OD** 68.80, **Total length** 129.30, **Splines A** 9, **No./teeth** 10, **Rotation** CR

*Drive: HC-CARGO 132020.*

## 230353 Drive

**Replacing:** NE957, 594303, 187567

**Servicing:** D7R17, D7R42, D7RP82

**ID** 12.00, **OD** 27.95, **OD/housing** 47.60, **Total length** 54.85, **Splines A** 10, **No./teeth** 10, **Rotation** CR



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#Available while stock last, * Program development.

## 230354 Drive

**Replacing:** NE966, 594324, 187983

**Servicing:** D7R22, D7R23

**ID** 12.00, **OD** 31.85, **OD/housing** 54.00, **Total length** 54.75, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 230963 5★ Drive

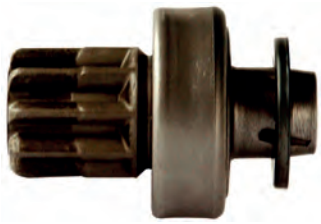
**Manufacturer:** Valeo

**Replacing:** 594043

**Servicing:** D9R116, D9R144

**OD** 68.60, **Total length** 152.30, **Splines A** 9, **No./teeth** 11, **Rotation** CR

*Drive: HC-CARGO 135282.*



## 231073 5★ Drive

**Manufacturer:** Valeo

**Replacing:** 594361

**Servicing:** D6RA181, D6RA81

**ID** 11.80, **OD** 29.00, **OD/housing** 48.00, **Total length** 68.90, **Splines A** 5, **No./teeth** 9, **Rotation** CR

## 231093 Drive

**Replacing:** 594389

**Servicing:** D7RS129, D7RS130, D7RS131, D7RS29, D7RS30, D7RS301, D7RS31

**ID** 16.25, **OD** 28.80, **OD/housing** 53.00, **Total length** 91.20, **Splines A** 9, **No./teeth** 11, **Rotation** ACR

## 231204 5★ Drive

**Manufacturer:** Valeo

**Replacing:** 182177

**Servicing:** D9R90

**OD** 34.40, **No./teeth** 11, **Rotation** CR

*Drive: HC-CARGO 132021. Shaft: HC-CARGO 233528.*

## 231413 Drive

**Replacing:** NE955, 594295, 187449

**Servicing:** D13HP601

**ID** 19.00, **OD** 41.30, **Total length** 114.50, **Splines A** 19, **No./teeth** 11, **Rotation** CR

## 231667 Drive

**Replacing:** 594110, 594035, 185744, 184799

**Servicing:** D6RA21, D6RA42, D6RA43

**ID** 12.00, **OD** 29.50, **OD/housing** 47.60, **Total length** 51.45, **Splines A** 9, **No./teeth** 9, **Rotation** ACR

## 231932 Drive

**Replacing:** 594410, 188993, 0809042

**Servicing:** D7R34, D7R53, D7R56, D7RP204, D8R1, TM000A34101, TM000A36101

**ID** 12.10, **OD** 32.00, **OD/housing** 53.60, **Total length** 55.00, **Splines A** 9, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333863

## 232632 Drive

**Replacing:** 103066

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE, D13HP605, D13HP607

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Rotation** CR

**Alternative no.:** 333858

## 233450 Drive

**Replacing:** NE869, 594107, 185283

**Servicing:** D6RA30

**ID** 12.15, **OD** 29.50, **OD/housing** 48.00, **Total length** 50.75, **Splines A** 9, **No./teeth** 11, **Rotation** CR

## 233496 Drive

**Replacing:** 594291

**Servicing:** D13HP613, D13HP709

**ID** 19.00, **OD** 56.20, **Total length** 118.50, **Splines A** 19, **No./teeth** 11, **Rotation** CR

## 233996 Drive

**Replacing:** 594378

**Servicing:** D7ES1, D7ES2, D7ES4

**ID** 11.20, **OD** 23.20, **OD/housing** 46.50, **Total length** 74.90, **Splines A** 10, **No./teeth** 8, **Rotation** ACR



All measurements are in mm, unless else stated.

#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

## 234086 Drive

**Replacing:** 594382, 188595

**Servicing:** D6RA101, D6RA104, D6RA105, D6RA110, D6RA115

**ID** 12.00, **OD** 29.40, **OD/housing** 47.00, **Total length** 50.80, **Splines A** 5, **No./teeth** 11, **Rotation** CR

## 234088 Drive

**Replacing:** 594308, 187084

**Servicing:** D7R14

**ID** 12.00, **OD** 32.70, **OD/housing** 54.00, **Total length** 69.45, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 234231 Drive

**Replacing:** 594436

**Servicing:** D7E19, D7E20, D7E22

**ID** 11.00, **OD** 23.60, **OD/housing** 47.10, **Total length** 41.20, **Splines A** 10, **No./teeth** 8, **Rotation** CR

**Alternative no.:** 234231Z

## 234231Z Drive

**Replacing:** 594436

**ID** 11.00, **OD** 23.65, **OD/housing** 46.20, **Total length** 41.05, **Splines A** 5, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234231

## 234819 5★ Drive

**Manufacturer:** Valeo

**Replacing:** 595575, 594631

**Servicing:** 190895, D7G26, D7G3, TS12E901

**ID** 12.00, **OD** 28.90, **OD/housing** 50.00, **Total length** 45.00, **Splines A** 10, **No./teeth** 11, **Rotation** CR

**Alternative no.:** 332530

## 234918 Drive

**Replacing:** 594248

**Servicing:** D6RA168, D6RA68

**ID** 12.10, **OD** 25.15, **OD/housing** 47.65, **Total length** 57.30, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 234996 Drive

**Replacing:** 594451

**Servicing:** D7E29, D7E30, D7E31, D7E32, D7E42

**ID** 11.00, **OD** 27.00, **OD/housing** 47.00, **Total length** 44.20, **Splines A** 10, **No./teeth** 8, **Rotation** CR

## 235086 Drive

**Replacing:** NE152, 054174

**Servicing:** D11E70, D11E75

**ID** 14.00, **OD** 34.39, **OD/housing** 57.66, **Total length** 76.28, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## 235087 Drive

**Replacing:** NE153, 054335

**Servicing:** D11E111, D11E140, D11E144, D11E74, D11E74T, D11E84

**ID** 14.17, **OD** 39.75, **OD/housing** 57.71, **Total length** 76.04, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 235088 Drive

**Replacing:** NE306, NE305

**ID** 14.00, **OD** 40.00, **OD/housing** 57.80, **Total length** 75.15, **Splines A** 6, **No./teeth** 10, **Rotation** CR

## 235179 Drive

**Replacing:** 594356, 594314

**Servicing:** D6RA167, D6RA180, D6RA67, D6RA80, D6RA91

**ID** 12.00, **OD** 29.60, **OD/housing** 47.00, **Total length** 65.95, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 235252 Drive

**Replacing:** 594472

**Servicing:** D7RS150, D7RS50

**ID** 12.00, **OD** 29.00, **OD/housing** 53.15, **Total length** 92.80, **Splines A** 9, **No./teeth** 11, **Rotation** ACR



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## 235840 Drive

**Replacing:** 101763

**Servicing:** D9E103, D9E130, D9E50

**ID** 12.03, **OD** 46.90, **OD/housing** 46.90, **Total length** 75.00, **Splines A** 9, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

## 236238 Drive

**Replacing:** 594465

**Servicing:** D7G4, TS18E7

**ID** 12.00, **OD** 31.50, **OD/housing** 49.85, **Total length** 55.00, **Splines A** 10, **No./teeth** 10, **Rotation** CR

## 236270 Drive

**Replacing:** 594657

**Servicing:** D7G11

**ID** 12.00, **OD** 32.40, **OD/housing** 49.15, **Total length** 45.40, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 333864

## 236359 Drive

**Replacing:** 594678

**Servicing:** D7GS10

**OD** 29.00, **OD/housing** 49.80, **Total length** 90.00, **Splines A** 8, **No./teeth** 11, **Rotation** ACR

## 236477 Drive

**Servicing:** 191335, D7GS8

**ID** 16.20, **OD** 29.50, **OD/housing** 48.65, **Total length** 82.00, **Splines A** 8, **No./teeth** 11, **Rotation** ACR

## 236607 Drive

**OD** 29.00, **Total length** 93.50, **Splines A** 10, **No./teeth** 9, **Rotation** CR

## 236609 Drive

**Replacing:** 594665

**Servicing:** D6GS11, D6GS12, D6GS12M, D6GS13

**ID** 12.00, **OD** 28.40, **OD/housing** 54.00, **Total length** 81.75, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 236797 Drive

**Replacing:** 594644, 236797, 192978, 191601

**Servicing:** D6G1, D6G3, D6G32, D6G321, D6G33, D6G332, D6G5

**ID** 12.00, **OD** 25.30, **OD/housing** 47.95, **Total length** 45.45, **Splines A** 10, **No./teeth** 9, **Rotation** CR

**Alternative no.:** 333870

## 236896 Drive

**Replacing:** 594453

**Servicing:** D7ES5, TS10E26

**ID** 10.00, **OD** 25.30, **Total length** 75.20, **Splines A** 10, **No./teeth** 9, **Rotation** ACR

## 236985 Drive

**Servicing:** TM000A31201

**ID** 12.02, **OD** 29.10, **OD/housing** 29.14, **Total length** 51.30, **Splines A** 8, **No./teeth** 9, **Rotation** CR

## 237291 Drive

**Servicing:** D7GS9

**ID** 12.10, **OD** 29.10, **OD/housing** 48.69, **Total length** 82.00, **Splines A** 8, **No./teeth** 9, **Rotation** CR

## 237776 Drive

**Replacing:** 594725, 192651

**Servicing:** D7E2, D7E25, D7E32, D7E39, D7E7, TS8E3, TS8E4, TS8E5

**ID** 11.02, **OD** 26.90, **OD/housing** 46.00, **Total length** 41.60, **Splines A** 5, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

## 239359 Drive

**Replacing:** 191769, 190993, 188440

**Servicing:** 105119C, D7E18, D7E19, D7E22, D7E27, D7E38, D7E4, D7E47, D7E6, D7E8, D7ED281, TS10E3, TS10E4, TS10E5

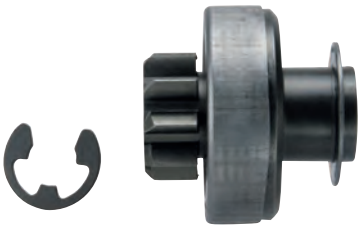
**ID** 11.00, **OD** 23.60, **OD/housing** 47.10, **Total length** 41.20, **Splines A** 5, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

*Drive: HC-CARGO 239359 can only be used w/ Armature: HC-CARGO 233767.*

## 330104 Drive

**Servicing:** TS22E5, TS22E5B, TS22E8, TS22E9

**ID** 12.05, **OD** 32.20, **OD/housing** 48.65, **Total length** 45.47, **Splines A** 8, **No./teeth** 10, **Drive type** Steel, **Rotation** CR



## 330452 Drive

**Replacing:** 594726, 193512

**Servicing:** TS8E1, TS8E2, TS8E6

**ID** 11.05, **OD** 25.38, **OD/housing** 46.20, **Total length** 41.20, **Splines A** 5, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 333857

## 330533 Drive

**Replacing:** 194480, 194440

**Servicing:** TS10E1

**ID** 11.05, **OD** 45.00, **OD/housing** 44.45, **Total length** 44.45, **Splines A** 5, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

## 330568 Drive

**Servicing:** 1250128

**OD** 14.65, **OD/housing** 55.48, **Total length** 110.20, **Splines A** 19, **Splines B** 4, **Rotation** CR

## 330800 Drive

**Servicing:** TS18E13, TS22E26

**ID** 12.09, **OD** 28.85, **OD/housing** 49.88, **Total length** 45.55, **Splines A** 8, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

## 331628 Drive

**Servicing:** TS12E10, TS12E9, TS14E11

**ID** 12.07, **OD** 27.93, **OD/housing** 48.40, **Total length** 45.81, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

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## 332193 Drive

**Replacing:** 594666

**Servicing:** D6GS14, TS12ER20, TS12ER25

**ID** 16.30, **OD** 28.40, **OD/housing** 49.79, **Total length** 88.95, **Splines A** 10, **No./teeth** 10, **Drive type** Steel, **Rotation** ACR

## 332207 Drive

**Replacing:** 192750

**Servicing:** TS18E1

**ID** 14.00, **OD** 29.00, **OD/housing** 50.00, **Total length** 81.65, **Splines A** 4, **No./teeth** 11, **Rotation** ACR

## 332530 Drive

**Replacing:** 595575, 332530

**Servicing:** TS14E110

**ID** 12.00, **OD** 29.35, **OD/housing** 48.40, **Total length** 45.60, **Splines A** 10, **No./teeth** 11, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 234819 5★

## 332562 Drive

**Servicing:** TS18ER123, TS18ER20

**ID** 13.99, **OD** 29.25, **OD/housing** 49.84, **Total length** 87.37, **Splines A** 4, **No./teeth** 12, **Drive type** Steel, **Rotation** ACR

## 332614 Drive

**Replacing:** 594777, 195356, 194372

**Servicing:** TS18E33, TS18E331

**ID** 12.00, **OD** 28.00, **OD/housing** 49.90, **Total length** 45.35, **Splines A** 8, **No./teeth** 10, **Drive type** Steel, **Rotation** CR



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#Available while stock last, * Program development.

## 333203 5★ Drive

**Manufacturer:** Bosch

**Replacing:** 594163

**ID** 12.00, **OD** 25.25, **OD/housing** 46.50, **Total length** 55.45, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR

**Alternative no.:** 135085

## 333479 Drive

**ID** 12.06, **OD** 28.20, **OD/housing** 45.30, **Total length** 45.15, **Splines A** 8, **No./teeth** 8, **Rotation** CR

## 333720 Drive

**Replacing:** 1L22B

**Servicing:** 1195411, 1195921, 1195922, 1196230

**ID** 12.00, **OD** 28.05, **OD/housing** 46.00, **Total length** 43.95, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

## 333721 Drive

**Replacing:** 2H08

**Servicing:** 1201942

**ID** 12.00, **OD** 27.90, **OD/housing** 45.50, **Total length** 56.00, **Splines A** 8, **No./teeth** 10, **Drive type** Steel

## 333723 Drive

**ID** 12.00, **OD** 28.30, **OD/housing** 45.35, **Total length** 55.90, **Splines A** 8, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

## 333857 Drive

**Replacing:** 594726, 193512

**Servicing:** TS8E1, TS8E2, TS8E6

**ID** 11.05, **OD** 25.38, **OD/housing** 46.20, **Total length** 41.20, **Splines A** 5, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 330452

## 333858 Drive

**Replacing:** 103066

**Servicing:** D13E117TE, D13E118TE, D13E120TE, D13E123, D13E1231TE, D13E123TE, D13HP605, D13HP607, D13HP702, D13HP703

**ID** 19.00, **OD** 46.30, **OD/housing** 58.00, **Total length** 118.45, **Splines A** 19, **No./teeth** 12, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 232632

## 333863 Drive

**Replacing:** 594410, 188993

**Servicing:** D7R34, D7R53, D7R56, D7RP204, TM000A34101, TM000A36101

**ID** 12.10, **OD** 32.00, **OD/housing** 54.00, **Total length** 55.00, **Splines A** 9, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 231932

## 333864 Drive

**Replacing:** 594657

**Servicing:** D7G11

**ID** 12.00, **OD** 32.40, **OD/housing** 49.15, **Total length** 45.40, **Splines A** 10, **No./teeth** 10, **Rotation** CR

**Alternative no.:** 236270

## 333869 Drive

**Replacing:** 1201728

**Servicing:** FS10B3

**ID** 10.00, **OD** 23.90, **OD/housing** 45.90, **Total length** 41.20, **Splines A** 4, **No./teeth** 8, **Drive type** Steel, **Rotation** CR

## 333870 Drive

**Replacing:** 594644, 192978, 191601

**Servicing:** D6G3, D6G32, D6G33, D6G5, TS12E902

**ID** 12.00, **OD** 25:30, **OD/housing** 47.95, **Total length** 45.45, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

**Alternative no.:** 236797

## 333879 Drive

**Replacing:** 594284

**Servicing:** D6RA75

**ID** 12.00, **OD** 25.50, **OD/housing** 47.50, **Total length** 61.40, **Splines A** 9, **No./teeth** 9, **Drive type** Steel, **Rotation** ACR



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**333929** Drive

**Replacing:** 198159

**OD** 34.25, **OD/housing** 48.40, **Total length** 87.50, **Splines A** 4, **No./teeth** 13, **Drive type** Steel, **Rotation** ACR

**333934** Drive

**Replacing:** 195334, 195041, 194039

**ID** 12.00, **OD** 28.30, **OD/housing** 49.00, **Total length** 45.20, **Splines A** 10, **No./teeth** 9, **Drive type** Steel, **Rotation** CR

## Drive Parts

### Caps

Pkg. 10

**134162** Dp Cap

**ID** 46.05, **OD** 47.10

Pkg. 25

**134205** Dp Cap

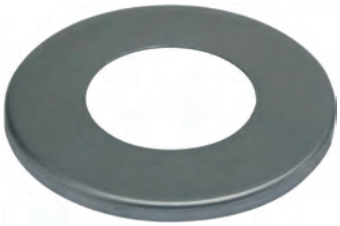
**ID** 51.10, **OD** 53.25

Pkg. 100

**134254** Dp Cap

**ID** 44.90, **OD** 46.25

Pkg. 10

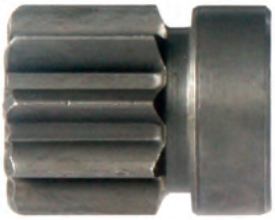


**134271** Dp Cap

**ID** 65.02, **OD** 66.90

### Gears

Pkg. 10



**134171** Gear

**ID** 11.90, **OD** 25.00, **Height** 31.90, **No./teeth** 9

Pkg. 10

**134173** Dp Gear

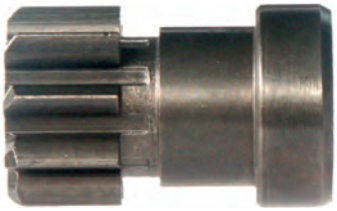
**ID** 11.90, **OD** 25.00, **Height** 25.40, **No./teeth** 9

Pkg. 10

**134174**# Dp Gear

**ID** 13.00, **OD** 25.20, **Height** 25.45, **No./teeth** 9

Pkg. 10



**134181** Dp Gear

**ID** 11.80, **OD** 25.50, **Height** 41.45, **No./teeth** 9

Pkg. 10

**134234** Dp Gear

**ID** 12.00, **OD** 25.20, **Height** 26.70, **No./teeth** 9

**137012**# Gear Wheel

**ID** 12.00, **OD** 25.45, **Height** 36.40, **No./teeth** 9

### Rollers

Pkg. 1000

**134212** Roller

**Servicing:** ESW10E40, ESW10E7, ESW20E26, ESW20ER123, ESW20ER123HE, TS18ER20, TS22E45

**OD** 5.95, **Length** 9.80

Pkg. 500

**134215** Dp Rollers

**OD** 5.50, **Length** 9.70



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Pkg. 500

**134222** Dp Rollers
**OD** 6.00, **Length** 8.80

Pkg. 1000

**134244** Dp Rollers
**OD** 6.35, **Length** 9.35

Pkg. 100

**139590** Dp Rollers
**OD** 5.90, **Length** 8.00

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**333759*** Roller

## Springs

Pkg. 500

**134218** Dp Springs
**Length** 13.70

Pkg. 500

**134220** Dp Springs
**Length** 14.15

Pkg. 1250

**134263** Dp Springs
**Length** 14.15

Pkg. 2000

**134264** Dp Springs
**Servicing:** TS22E45
**Length** 12.35

## Pinion

**139953** Pinion
**Servicing:** HK988300, MG120413, MG120445, TM000A14901
**ID** 13.25, **OD** 32.55, **Height** 18.25, **No./splines** 19, **No./teeth** 10

**235327** Pinion
**Servicing:** MG122433
**ID** 13.68, **OD** 39.63, **Height** 18.26, **No./splines** 19, **No./teeth** 13

**237086** Pinion
**Servicing:** HQ808670, MG122202, MG122433, TM000A18601
**ID** 13.74, **OD** 39.51, **Height** 18.27, **No./splines** 19, **No./teeth** 13

**330887** Pinion
**Servicing:** 1250449
**ID** 15.80, **OD** 46.28, **Height** 16.69, **No./splines** 22, **No./teeth** 33

## Various

Pkg. 10

**236360** Plug
**Servicing:** 458389, D6GS11, D6GS12M, D6GS19, D7GS9, TS12ER20, TS18ER121, TS18ER123, TS18ER20
**OD/collar** 18.00, **OD** 16.55, **Length** 4.10, **Height/collar** 0.90

## Planet Gears

**135081** 5★ Planet Gear (new)
**Manufacturer:** Valeo
**Replacing:** 594538
**Servicing:** D6RA10, D6RA12, D6RA13, D6RA132, D6RA16, D6RA18, D6RA20, D6RA22, D6RA26, D6RA30, D6RA32, D6RA33, D6RA37, D6RA38, D6RA39
**Shaft dia./middle** 12.00, **Total length** 113.40, **No./splines** 9
*Outer gear: HC-CARGO 133954.*



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#Available while stock last, * Program development.

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## 135388 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594141
**Servicing:** D7R1, D7R2, D7R3, D7R4, D7R45, D7R5, D7R7
**Shaft dia./middle** 11.90,
**Total length** 126.70, **No./splines** 9

## 138151 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594373, 594187
**Servicing:** 188839, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R18, D7R19, D7R20, D7R24, D7R25, D7R26, D7R27, D7R28
**Shaft dia./middle** 11.90,
**Total length** 90.00, **No./splines** 9

## 233994 Planet Gear
**Replacing:** 594283
**Servicing:** D7R12, D7R127, D7R17, D7R19, D7R22, D7R23, D7R27, D7R28, D7R281, D7R32, D7R42, D7RP123, D7RP82
**Shaft dia./middle** 12.00,
**Total length** 119.70, **No./splines** 10

## 234387 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594699, 594395
**Servicing:** D7RS129, D7RS130, D7RS131, D7RS29, D7RS30, D7RS301, D7RS31, D7RS50
**Shaft dia./middle** 30.00,
**Total length** 131.80/144.80,
**No./splines** 9, **Rotation** ACR
*Drive: HC-CARGO 231093, 235252.*

## 235706 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594541
**Servicing:** D6RA138, D6RA141, D6RA161, D6RA163, D6RA293, D6RA511, D6RA53, D6RA56, D6RA571, D6RA572, D6RA59, D6RA661, D6RA74
**Shaft dia./middle** 11.95,
**Total length** 111.50, **No./splines** 10,
**No./teeth** 15, **Rotation** CR

## 235707 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594542
**Servicing:** D6RA133, D6RA162, D6RA249, D6RA62, D6RA73, D6RA93
**Shaft dia./middle** 18.00,
**Total length** 112.90, **No./splines** 10,
**No./teeth** 22, **Rotation** CR

## 235709 5★ Planet Gear
**Manufacturer:** Valeo
**Replacing:** 594549
**Servicing:** D6RA100, D6RA108, D6RA109
**Shaft dia./middle** 12.00,
**Total length** 112.00, **No./teeth** 3

## Gear Parts

### Gear Shafts

## 235498 Gear Shaft
**Replacing:** 594152
**Servicing:** D9R105, D9R112, D9R118, D9R119, D9R121, D9R122, D9R142, D9R149, D9R73, D9R84, D9R89, D9R91, D9R99, D9RP160, D9RP256
**OD/shaft** 9.95, **Total length** 129.55,
**No./splines** 9

## 239720 Gear Shaft
**Servicing:** D9R90
**Shaft dia./middle** 11.94,
**Total length** 144.00, **No./splines** 9

### Outer Gear

## 133403 Outer Gear
**Replacing:** 35137-32510
**Servicing:** M42373, M52100, M53486, MG112014, MG112022, MP112033, MP112040, MP112041, MP112042, MP112043, TM000A07901, TM000A08401
**ID** 49.15, **OD** 65.00, **Height** 30.20,
**No./teeth** 43

## 133954 Outer Gear
**Servicing:** 594538, 594541, 594542, D6RA15, D6RA30, D6RA42, D6RA43, D6RA47, D6RA7
**OD** 80.15, **Height** 24.60, **No./teeth** 59
*Cap: HC-CARGO 233460.*

## 233592 Outer Gear
**Servicing:** D6RA168, D6RA40, D6RA63, D6RA68
**OD** 55.10, **No./teeth** 37



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**234891** Outer Gear
**Servicing:** 594470
**OD** 68.00, **No./teeth** 59

**333036** Outer Gear
**ID** 53.60, **OD** 67.60, **Height** 35.60, **No./teeth** 56

**333037** Outer Gear
**Servicing:** ESW20ER123, ESW20ER123HE
**ID** 53.60, **OD** 67.60, **Height** 35.40, **No./teeth** 56

## Gear Covers

Pkg. 10

**233460** Gear Plate
**ID** 15.60, **OD** 49.43, **Thickness** 3.95

Pkg. 10

**331011** Gear Plate
**Servicing:** D6RA181, D6RA68, D6RA81
**ID** 14.00, **OD** 50.80

## Gear Wheels

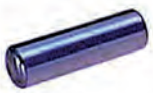
Pkg. 10

**135325** Gear Wheel
**Servicing:** 594019
**ID** 4.00, **OD** 18.30, **Height** 7.40, **No./teeth** 22
*Bushing: HC-CARGO 140952.*

**235159** Gear Wheel
**Servicing:** D6RA
**OD** 19.80, **No./teeth** 15

## Various

Pkg. 10



**135326** Steel Pin
**Servicing:** 594019, 626002, D6RA100, D6RA114, D6RA15, D6RA167, D6RA168, D6RA181, D6RA42, D6RA43, D6RA47, D6RA63, D6RA67, D6RA68
**OD** 4.00, **Length** 13.90

Pkg. 5

**135867** Armature Gear
**Servicing:** 182175, D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91
**ID** 10.00, **OD** 21.10, **Height** 34.40, **No./teeth** 15

Pkg. 10

**230088** Steel Pin
**Servicing:** 594187, D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404, D7R40
**OD** 5.00, **Length** 18.00

Pkg. 10

**236215** Washer
**Servicing:** D9R105, D9R112, D9R116, D9R118, D9R119, D9R122, D9R142, D9R144, D9R149, D9R73, D9R89, D9R90, D9R91, D9R97, D9R99
**ID** 18.00, **OD** 29.70, **Thickness** 1.10, **Material** Fiber

## Levers

**132029** 5★ Lever Kit
**Manufacturer:** Valeo
**Replacing:** 182048
**Servicing:** D9R105, D9R1050, D9R106, D9R116, D9R118, D9R119, D9R121, D9R122, D9R126, D9R135, D9R139, D9R144, D9R149, D9R73, D9R84
**Dist.** 25.35, **ID** 5.15, **Length** 90.70
*Lever only: HC-CARGO 134866.*

**132971** 5★ Lever Kit
**Manufacturer:** Valeo
**Replacing:** 182156, 182154
**Servicing:** D13E100TE, D13E101TE, D13E104TE, D13E105, D13E107TE, D13E108TE, D13E109TE, D13E110, D13E110TE, D13E111, D13E111TE
**Dist.** 41.15, **ID** 8.45, **Length** 120.00



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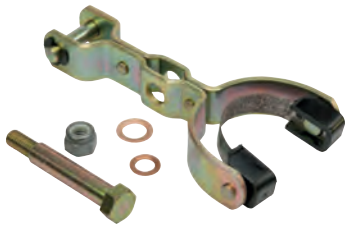
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



## 132972 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 182163

**Servicing:** D15E29, D15E29TE, D15E30, D15E30TE

**Dist.** 42.10, **ID** 10.25, **Length** 138.65

## 133077 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 594068, 181084

**Servicing:** D6RA10, D6RA100, D6RA108, D6RA109, D6RA11, D6RA12, D6RA13, D6RA132, D6RA141, D6RA15, D6RA16, D6RA17, D6RA18, D6RA19

**Dist.** 25.80, **ID** 5.30, **Length** 75.20

*Lever only: HC-CARGO 134105.*

## 133139# 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 300838

**Servicing:** D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922, D9EP119

**Dist.** 25.60, **ID** 5.30, **Length** 90.75

Pkg. 5

## 134105 Lever

**Servicing:** D6RA10, D6RA100, D6RA12, D6RA13, D6RA132, D6RA15, D6RA16, D6RA162, D6RA163, D6RA18, D6RA20, D6RA22, D6RA249, D6RA293

**Dist.** 25.80, **ID** 5.30, **Length** 75.20

*Lever w/ plunger: HC-CARGO 133077.*

Pkg. 5

## 134866 Lever

**Servicing:** D9E100, D9E101, D9E108, D9E131, D9E132, D9E136, D9E137, D9E138, D9E200, D9E237, D9E238, D9E276, D9E278, D9E300, D9E36

**Dist.** 25.60, **ID** 5.40, **Length** 90.65

*Lever w/ plunger: HC-CARGO 132029.*

Pkg. 5

## 135515 Lever

**Servicing:** 1250128, 188839, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R18, D7R19, D7R2, D7R20, D7R22, D7R23

**Dist.** 25.50, **ID** 5.30, **Length** 82.20

*Lever w/ plunger: HC-CARGO 139439.*

## 136620 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 182058, 098945

**Servicing:** D10E86, D9E100, D9E101, D9E102, D9E103, D9E104, D9E107, D9E108, D9E109, D9E111, D9E113, D9E114, D9E123, D9E124, D9E125

**Dist.** 25.60, **ID** 5.40, **Length** 90.65

*Lever only: HC-CARGO 134866.*

## 137732 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 594422, 594374, 594259, 594255

**Servicing:** 626002, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA114, D6RA115, D6RA133, D6RA137, D6RA138, D6RA141, D6RA161

**Dist.** 22.35, **ID** 5.30, **Length** 73.25

*Lever only: HC-CARGO 138854.*

## 138112 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 594298, 593253, 182036

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE, D13HP601, D13HP605

**Dist.** 37.00, **ID** 8.30, **Length** 121.40

## 138114 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 594069

**Servicing:** D9R112, D9R134, D9R142, D9RP256

**Dist.** 25.30, **Length** 109.75

Pkg. 5

## 138854 Lever

**Replacing:** 594460

**Servicing:** 626002, D6RA105, D6RA110, D6RA114, D6RA115, D6RA133, D6RA137, D6RA138, D6RA141, D6RA161, D6RA162, D6RA163, D6RA167

**Dist.** 21.70, **ID** 5.35, **Length** 73.20

*Lever only: HC-CARGO 137732.*

## 139439 5★ Lever Kit

**Manufacturer:** Valeo

**Replacing:** 594390, 594281, 594262

**Servicing:** 1250128, 188839, D7R1, D7R11, D7R12, D7R127, D7R13, D7R14, D7R15, D7R151, D7R16, D7R18, D7R19, D7R2, D7R20, D7R22

**Dist.** 24.40, **ID** 5.15, **Length** 82.30

*Lever only: HC-CARGO 135515.*



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**139533** Lever Kit
**Replacing:** 36114-11130
**Servicing:** M56290
**Dist.** 22.30, **Length** 77.25

Pkg. 20

**231148** Lever
**Servicing:** 105119C, D7E1, D7E16, D7E18, D7E19, D7E2, D7E22, D7E23, D7E25, D7E26, D7E30, D7E32, D7E38, D7E39, D7E4, D7E40, D7E42
**Dist.** 19.00, **Length** 83.00

**335124** Lever
**Manufacturer:** Valeo
**Replacing:** 36100-2G100FFF
**Dist.** 21.50, **Length** 75.00

## Lever Parts

### Various

Pkg. 10

**134142** Spacer
**Servicing:** D10E74, D11E163, D11E169, D11E172, D11E173, D11E176, D11E177, D11E187, D11E272, D8E117, D8E121, D8E130, D8E131, D8E132
**OD** 12.00, **Height** 11.00

**231192** Spring Kit
**Servicing:** HQ808670, MG120413, MG122202, TM000A06101, TM000A18601, TM000A23601, TM000V23601

Pkg. 10

**237685** Lever Support
**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E29, D7E39, D7E5, D7E6, D7E7, D7ED281
**Length** 21.52
*Plastic.*

## Clutches

**231269** Clutch
**Servicing:** HK988300, HQ808670, MG120413, MG120445, MG122202, MG122433, TM000A14901, TM000A18601
**Total length** 117.00/131.00,
**No./splines** 19

**237115** Clutch
**Servicing:** TM000A23601, TM000V23601
**Total length** 117.80/131.00,
**No./splines** 19

## Brush Gears

**132812** Brush Gear
**Servicing:** D9E100, D9E131, D9E138, D9E140, D9E200, D9E238, D9E300, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49, D9E51, D9E53, D9E54
**OD** 55.50
*Brush set: HC-CARGO PSX1304.*

Pkg. 5

**132995** Brush Gear
**Servicing:** D9E101, D9E108, D9E123, D9E132, D9E136, D9E137, D9E237, D9E276, D9E278, D9E36, D9E38, D9E39, D9E48, D9E56, D9E57, D9E61
**OD** 69.90
*Brush set: HC-CARGO PSX1332.*

**133341** Brush Gear
**Replacing:** 36169-32510
**Servicing:** 1250299, 1250301, M42373, M53486, MG112014, MG112022, MP112033, MP112040, MP112041, MP112042, MP112043, S000V1196228
12 **V**, **OD** 67.35
*Pos. brush: HC-CARGO 140967.*
**Alternative no.:** 333636

**133646** Brush Gear
**Replacing:** 594072, 181961
**Servicing:** D6RA10, D6RA12, D6RA16, D6RA18, D6RA20, D6RA45, D6RA47, D6RA6, D6RA61, D6RA7, D6RA8
**OD** 62.50
*Spring and brush set: HC-CARGO PSX146-147K.*

## 133647 Brush Gear

**Replacing:** 594070, 186381, 183957

**Servicing:** 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA114, D6RA115, D6RA12, D6RA13, D6RA132

**OD** 61.75

*Spring and brush set: HC-CARGO PSX144-145K.*

## 134642 Brush Gear

**Servicing:** D9R112, D9R116, D9R118, D9R121, D9R122, D9R142, D9R144, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99, D9RP256

**OD** 69.90

*Brush set: HC-CARGO PSX140-1414. Brush spring: HC-CARGO 135201.*

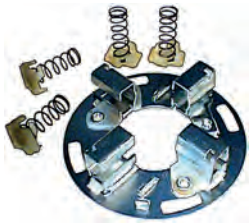
## 135467 Brush Gear

**Replacing:** 3EM092301D

**Servicing:** M000A01901, M000A0240Z, M04686, M35216, M39376, M39646, M43196, MC107012, MC107023, MC108024, MC108027, MC108030

12 **V**, **OD** 74.00

*Neg. brushes. Brush set: HC-CARGO 140349.*



## 136763 Brush Gear

**Replacing:** 594780

**Servicing:** 1250128, 188839, D7G14, D7G20, D7G26, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19

12 **V**, **OD** 77.00

*Brush set: HC-CARGO PSX1584.*

**Alternative no.:** 333646

## 138642 5★ Brush Gear

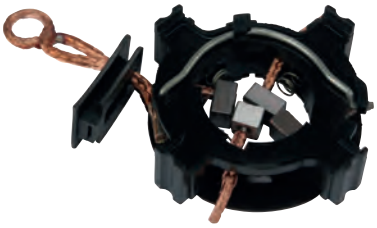
**Manufacturer:** Valeo

**Replacing:** 2106053, 184630

**Servicing:** D13E117TE, D13E118TE, D13E123, D13E1231TE, D13E123TE, D13HP703

24 **V**, **OD** 90.00

*Neg. brushes. Brush set: HC-CARGO PSX1124.*



## 139224 Brush Gear

**Replacing:** 594479, 594351, 594290

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E27, D7E29, D7E30, D7E31, D7E32, D7E38

12 **V**, **OD** 59.75

*Brush set: HC-CARGO PSX1554.*

**Alternative no.:** 333648

## 230126 5★ Brush Gear

**Manufacturer:** Valeo

**Replacing:** 182467

**Servicing:** D15E29, D15E29TE, D15E30, D15E30TE

**OD** 104.60

*Neg. brushes. Brush set: HC-CARGO PSX884.*

## 231841 Brush Gear

**Replacing:** 594381

**Servicing:** ACR, D7ES1, D7ES2, D7ES4, D7ES5, TS10E26

**OD** 59.60

## 233617 5★ Brush Gear

**Manufacturer:** Valeo

**Replacing:** 594222

**Servicing:** D13HP605, D13HP607, D13HP608

**OD** 95.20

*Brush set: HC-CARGO 141067.*

## 233771 Brush Gear

**Servicing:** D9R119, D9R149, D9RP160

**OD** 84.60

*Brush set: HC-CARGO PSX140-1414.*

## 234119 Brush Gear

**Replacing:** 190097

**Servicing:** 190895, D7G11, D7G3, D7G4, D7GS9

12 **V**, **OD** 67.55

*1.7 kW.*

**Alternative no.:** 333654

## 235390 Brush Gear

**Servicing:** TM000A27301, TM000A27601, TM000A31001, TM000A37001

12 **V**, **OD** 64.00



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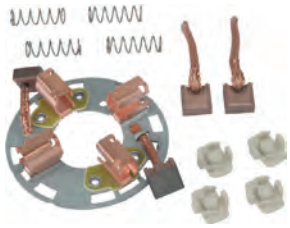
**239731** Brush Gear
**Replacing:** 193288, 191824, 190987
**Servicing:** 191335, 458389, D7GS10, D7GS8, TS18E1, TS18E3, TS18ER121, TS18ER123, TS18ER20
12 **V**

**332467** Brush Gear
**Servicing:** M62957, TM000A14401
12 **V**, **OD** 65.42

**333317** 5★ Brush Gear
**Manufacturer:** Valeo
**Replacing:** 594674
**Servicing:** D6GS11, D6GS12, D6GS12M, D6GS13, D6GS14, TS12ER20, TS12ER22M, TS14E110
12 **V**, **OD** 60.25
**Alternative no.:** 335009

**333654** Brush Gear
**Replacing:** 190097
**Servicing:** D7G11, D7G3, D7G4
12 **V**, **OD** 67.55
*1.7 kW.*
**Alternative no.:** 234119



**333667** Brush gear
**Servicing:** 1250449, D7RS129, D7RS130, D7RS131, D7RS150, D7RS29, D7RS30, D7RS301, D7RS31, D7RS50
12 **V**, **OD** 77.00

**335009** Brush Gear
**Replacing:** 594674
**Servicing:** D6GS12, D6GS12M, D6GS13, D6GS14, TS12ER20
12 **V**
**Alternative no.:** 333317 5★

## Brush Gear Parts

### Brush Springs

**132571** Brush Spring Set
**Servicing:** D9E140, D9E86
**OD** 7.25, **Length** 29.70

Pkg. 10

**134902** Brush Spring
**Replacing:** 300842
**Servicing:** D10E 85, -87, -88, -89, -90
**OD** 11.90, **Length** 26.90

Pkg. 10

**135018** Brush Spring
**Replacing:** 092533, 092528
**Servicing:** D11E101, D11E102, D11E105, D11E107, D11E108, D11E109, D11E110, D11E111, D11E115, D11E123, D11E126, D11E135, D11E155
**OD** 11.50, **Length** 23.90

Pkg. 10

**135422** Brush Spring
**Servicing:** D7R..., D7RS..., 1250449, D7G14, D7G26, D7R40, D7R48, D7RP204, D8R1, D8R28, D8R49, TS18E13, TS18E33, TS18E331, TS22E45
**OD** 8.55, **Length** 26.00

Pkg. 10

**135423** Spring Retainer
**Servicing:** 1250449, D7G14, D7G26, D7R40, D7RP204, D8R1, D8R28, D8R49, TS18E13, TS18E33, TS18E331, TS22E45, TS22E5, TS22E5B, TS22E8
**OD** 18.10, **Height** 6.15

Pkg. 10

**233766** Brush Spring
**OD** 11.85, **Length** 33.50



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Pkg. 10

**236615** Brush Spring

**Servicing:** D6G1, D6G3, D6G32, D6G321, D6G33, D6G332, D6G5, D6GS11, D6GS12, D6GS12M, D6GS13, D6GS14, D6GS19, ESW20E26, ESW20ER121

**OD** 7.90

## Brush Sets

**140851** Brush/Spring Kit

**Replacing:** 182145

**Servicing:** D11E122, D11E122T, D11E128, D11E128T, D11E130, D11E89, D11E89T, D11E89TE, D11E90, D11E90T, D11E98, D11E98T, D11E98TE

**Length** 17.00, **Lead length** 76.50, **Height** 25.00, **Thickness** 10.00

*Brush set only: HC-CARGO PSX83-844.*

**Alternative no.:** PSX83-844

**141067** Brush Set

**Replacing:** 594286

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP608, D13HP609, D13HP613

24 **V**, **Length** 20.00, **Lead length** 69.50, **Lead length 2** 46.00, **Height** 25.00, **Thickness** 10.00

**141224** Brush Set

12 **V**, **Length** 15.15, **Height** 11.85, **Lead length** 61.00/93.00, **Lead length 2** 30.00, **Thickness** 4.42

**141244** Brush Set

**Servicing:** TM000A27301, TM000A27601, TM000A31001, TM000A37001

12 **V**, **Length** 12.00, **Lead length** 27.00, **Lead length 2** 20.00/29.00, **Height** 12.00, **Thickness** 4.50

**141274** Brush Set

**Servicing:** D6RA137, D6RA187, D6RA188

12 **V**, **Length** 21.10, **Lead length** 90.00, **Lead length 2** 22.00, **Height** 10.00, **Thickness** 7.45

**142037** Brush Set

**Servicing:** 1195239, 1250303, S0001250303, TA000A37301, TM000A37001, TM000A37201, TM000A37301

12 **V**, **Length** 12.00, **Lead length** 33.00, **Lead length 2** 24.50, **Height** 10.60, **Thickness** 5.00

**142039** Brush Set

**Servicing:** TM000A18001, TM000A23501, TM000A35301

12 **V**, **Length** 12.00, **Lead length** 32.50, **Lead length 2** 25.00, **Height** 12.00, **Thickness** 4.50

**142058** Brush Set

12 **V**, **Length** 12.00, **Lead length** 30.00, **Lead length 2** 64.50, **Height** 12.00, **Thickness** 4.50

Pkg. 5

**142071** Brush

**Servicing:** 1250295, TM000A33401

12 **V**, **Length** 11.83, **Lead length** 30.50, **Height** 16.07, **Thickness** 4.45

*Cable lenght B+=50.50 mm.*

**142345** Brush Set

**Replacing:** 594066, 182067, 182066, 092914

12 **V**, **Length** 15.15, **Lead length** 66.00, **Lead length 2** 42.00, **Height** 11.80, **Thickness** 7.60/12.50

**Alternative no.:** PSX1332

**142351** Brush Set

**Replacing:** PSX142-1454

**Length** 14.00, **Lead length** 55.00, **Lead length 2** 37.00, **Height** 14.00, **Thickness** 7.00



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## 332468 Brush Set

**Servicing:** M62957, TM000A14401

12 **V**, **Lead length** 27.00, **Height** 11.78, **Thickness** 4.10

## 334084 Brush Set

**Replacing:** PSX171-1728

**Servicing:** ESW20E26, ESW20ER121, ES-W20ER123, ESW20ER123HE

12 **V**, **Length** 12.45, **Lead length** 33.50, **Lead length 2** 88.15, **Height** 11.00, **Thickness** 6.95

## PSX106-1072 Brush Set

**Replacing:** 182072, 078166

12 **V**, **Length** 14.00, **Lead length** 66.50, **Height** 15.00, **Thickness** 7.00

## PSX1124 Brush Set

**Replacing:** 182146, 180237, 078900

**Servicing:** D13E107TE, D13E109TE, D13E110, D13E110TE, D13E76, D13E77, D13E77T, D13E86TE, D13E87TE, D13E93TE, D13E94TE, D13E96TE

24 **V**, **Length** 17.00, **Lead length** 40.00, **Height** 18.00, **Thickness** 10.00

## PSX115-1162 Brush Set

**Replacing:** 182064, 092655, 075943, 075269

**Servicing:** D10E48, D10E54, D10E57, D10E63, D10E64, D10E65, D10E76, D10E80, D10E84, D8E104, D8E106, D8E108, D8E109, D8E112, D8E113

12 **V**, **Length** 14.00, **Lead length** 66.00, **Height** 18.00, **Thickness** 6.90

## PSX119-1202 Brush Set

**Replacing:** 182070

**Servicing:** D8E107, D8E111, D8E116, D8E130, D8E131, D8E141, D8E148, D8E154, D8E54, D8E74, D8E99

12 **V**, **Length** 14.30, **Lead length** 65.00, **Height** 14.90, **Thickness** 6.90

## PSX122-123-124 Brush Set

**Replacing:** 182073

12 **V**, **Length** 15.10, **Lead length** 54.00, **Lead length 2** 34.00, **Height** 12.45, **Thickness** 4.50/8.90

## PSX1254 Brush Set

**Replacing:** 92744

12 **V**, **Length** 17.25, **Lead length** 73.00, **Height** 24.95, **Thickness** 9.95
*Set w/ springs: HC-CARGO 140840.*

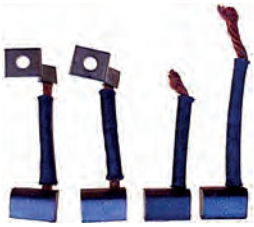
**Alternative no.:** 140840

## PSX1292/1P Brush Set

**Replacing:** 594065, 182065, 092878

**Servicing:** D9E100, D9E102, D9E104, D9E111, D9E131, D9E138, D9E200, D9E238, D9E300, D9E31, D9E40, D9E43, D9E44, D9E45, D9E46, D9E49

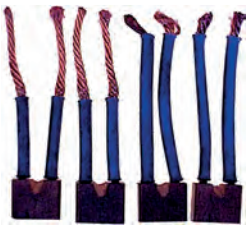
12 **V**, **Length** 15.00, **Lead length** 62.00, **Lead length 2** 42.00, **Height** 10.10, **Thickness** 6.50/9.60



## PSX1304 Brush Set

**Replacing:** 300687, 182068, 092883

12 **V**, **Length** 15.10, **Lead length** 64.00, **Lead length 2** 41.00, **Height** 10.05, **Thickness** 6.50/9.65



## PSX1324 Brush Set

**Replacing:** 182118, 092925, 075707

**Servicing:** D11E148, D11E156, D11E161, D11E172, D11E177, D11E184, D11E187, D11E188, D11E191, D11E192, D11E195, D11E272

12 **V**, **Length** 14.05, **Lead length** 66.00, **Height** 17.90, **Thickness** 9.90

## PSX1332 Brush Set

**Replacing:** 594066, 182067, 182066, 092914

**Servicing:** D9E101, D9E107, D9E108, D9E109, D9E113, D9E114, D9E123, D9E124, D9E125, D9E127, D9E129, D9E132, D9E136, D9E137, D9E237

12 **V**, **Length** 15.05, **Lead length** 66.00, **Lead length 2** 44.00, **Height** 11.80, **Thickness** 6.90/12.50

**Alternative no.:** 142345



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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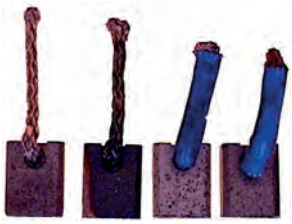
## PSX133K2 Brush Set

**Replacing:** 300706

12 **V**, **Length** 15.00, **Lead length** 43.00, **Lead length 2** 67.00, **Height** 11.85, **Thickness** 6.90/12.45



## PSX136-1374 Brush Set

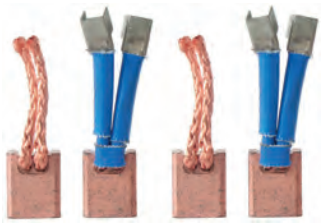
**Replacing:** 300841

**Servicing:** D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922

12 **V**, **Length** 18.45, **Lead length** 44.50, **Height** 14.90, **Thickness** 6.85

## PSX138-1392 Brush Set

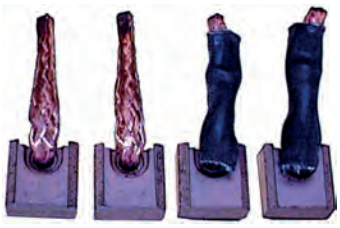
12 **V**, **Length** 22.00, **Lead length** 41.00, **Lead length 2** 47.00, **Height** 17.90, **Thickness** 8.85



## PSX140-1414 Brush Set

**Servicing:** D9R116, D9R126, D9R144

12 **V**, **Length** 21.95, **Lead length** 47.00, **Height** 17.90, **Thickness** 8.90



## PSX142-1434 Brush Set

**Servicing:** 1250128, 1250449, 188839, D7G20, D7R1, D7R11, D7R12, D7R127, D7R13, D7R14, D7R15, D7R151, D7R16, D7R18, D7R19, D7R2

12 **V**, **Length** 13.75, **Lead length** 35.50, **Height** 13.80, **Thickness** 6.85

**Alternative no.:** PS142, PS143

## PSX142-1444 Brush Set

**Replacing:** 187779, 187778

**Servicing:** 188839, D7G26, D7R1, D7R11, D7R12, D7R127, D7R13, D7R15, D7R151, D7R16, D7R17, D7R18, D7R19, D7R2, D7R22, D7R23, D7R25

12 **V**, **Length** 13.70, **Lead length** 56.00, **Lead length 2** 36.00, **Height** 14.00, **Thickness** 7.00

*2 component.*

## PSX144-145K Brush Set

**Replacing:** PSX144-145K, 594386, 594317, 594127, 594063, 594062, 594060

**Servicing:** D6RA101, D6RA104, D6RA110, D6RA12, D6RA13, D6RA141, D6RA15, D6RA16, D6RA161, D6RA167, D6RA17, D6RA18, D6RA19, D6RA20

12 **V**, **Length** 18.00, **Lead length** 86.00, **Lead length 2** 45.00/50.00, **Height** 11.00, **Thickness** 4.50/9.00

*Only spring: HC-CARGO 610203. Only gasket: HC-CARGO 610204. 2 component.*

**Alternative no.:** 142346

## PSX146-147K Brush Set

**Replacing:** 594064, 594061

**Servicing:** D6RA10, D6RA7, D6RA8

12 **V**, **Length** 14.00, **Lead length** 92.00, **Lead length 2** 47.00, **Height** 11.00, **Thickness** 4.50/9.00

*Spring only: HC-CARGO 610205. insulator only: HC-CARGO 610204.*

## PSX148-157K Brush Set

**Servicing:** D6RA13, D6RA15, D6RA17, D6RA19, D6RA21, D6RA22, D6RA23, D6RA25, D6RA26, D6RA28, D6RA29, D6RA30, D6RA32, D6RA34, D6RA39

12 **V**, **Length** 18.00, **Lead length** 56.00, **Lead length 2** 46.00, **Height** 11.00, **Thickness** 4.50/9.00

*2 component.*

## PSX148-158K Brush Set

**Servicing:** D6RA101, D6RA293, D6RA93

12 **V**, **Length** 18.00, **Lead length** 72.00, **Lead length 2** 45.00, **Height** 11.00, **Thickness** 4.50/9.00

## PSX148-159K Brush Set

**Replacing:** 594360, 594169

**Servicing:** D6RA133, D6RA180, D6RA181, D6RA33, D6RA37, D6RA47, D6RA51, D6RA511, D6RA57, D6RA571, D6RA67, D6RA78, D6RA79, D6RA80

12 **V**, **Length** 18.00, **Lead length** 41.00, **Lead length 2** 46.50, **Height** 11.00, **Thickness** 4.50/9.00

*Only spring: HC-CARGO 610203. Only gasket: HC-CARGO 610204. 2 component.*



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#Available while stock last, * Program development.

## PSX152-1538 Brush Set

**Replacing:** 182037

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE, D13HP701, D13HP702

24 **V**, **Length** 17.00, **Lead length** 67.50, **Height** 18.00, **Thickness** 10.00

## PSX1554 Brush Set

**Replacing:** 187144

**Servicing:** D7E... 2 COMPONENT, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30

12 **V**, **Length** 11.00, **Lead length** 31.50, **Height** 8.00, **Thickness** 6.40

**Alternative no.:** PS155B

## PSX1564 Brush Set

**Replacing:** 187888

**Servicing:** ACR, 2 COMPONENT

12 **V**, **Length** 11.00, **Lead length** 30.00, **Height** 8.00, **Thickness** 6.40

## PSX1584 Brush Set

**Servicing:** D7R..., D7R48

12 **V**, **Length** 13.70, **Lead length** 56.00, **Lead length 2** 37.00, **Height** 14.00, **Thickness** 7.00

## PSX160-1644 Brush Set

**Replacing:** 191060, 190986

**Servicing:** 190895, 191335, 458389, D7G11, D7G3, D7G4, D7GS10, D7GS8, D7GS9, TS18E3, TS18ER121, TS18ER123, TS18ER20

12 **V**, **Length** 11.50, **Lead length** 28.00, **Lead length 2** 25.50, **Height** 13.00, **Thickness** 7.00

*2 component.*

## PSX1614 Brush Set

**Servicing:** D8R...2 COMPONENT

12 **V**, **Length** 13.80/14.00, **Lead length** 36.00, **Height** 13.70, **Thickness** 7.00

## PSX166-1674 Brush Set

**Replacing:** 191849, 191771

**Servicing:** D6G2, D6G3, D6G5

12 **V**, **Length** 15.50, **Lead length** 38.50, **Lead length 2** 24.00, **Height** 10.00, **Thickness** 3.90/6.40

*2 component.*

## PSX168-1674 Brush Set

**Replacing:** 192285

**Servicing:** D6GSP19

12 **V**, **Length** 15.50, **Lead length** 38.50, **Lead length 2** 22.00, **Height** 10.00, **Thickness** 3.90/6.40

*2 component. Overload protection.*

## PSX169-1704 Brush Set

**Replacing:** 191773, 191772

**Servicing:** ACR, D6G3, D6G32, D6G33, D6G5, D6GS11, D6GS12, D6GS13, D6GS14, TS12E10, TS12E9, TS12ER20, TS14E11

12 **V**, **Length** 15.50, **Lead length** 22.50, **Lead length 2** 39.00, **Height** 10.00, **Thickness** 3.90/6.40

*2 component. Overload protection.*

**Alternative no.:** PS169B, PS170B

## PSX54-692 Brush Set

**Replacing:** 182069, 072595

6 **V**, **Length** 14.50, **Lead length** 56.35, **Height** 18.00, **Thickness** 10.00

## PSX64-702 Brush Set

**Replacing:** 72591A, 075452, 072591

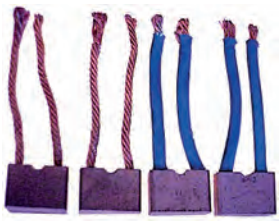
12 **V**, **Length** 17.00, **Lead length** 60.00, **Height** 18.00, **Thickness** 7.00

## PSX77-784 Brush Set

**Replacing:** 72632H, 182112, 072632, 072619

**Servicing:** D11E58, D11E69, D11E84, D11E85, D8E105

12/24 **V**, **Length** 14.00, **Lead length** 65.00, **Height** 18.00, **Thickness** 7.00



**PSX81-824** Brush Set

**Replacing:** 300679, 182115, 182114, 075093, 072631

**Servicing:** D11E118, D11E119, D11E119T, D11E120, D11E129, D11E129T, D11E131, D11E137, D11E141, D11E146, D11E153, D11E153T, D11E154

12 **V**, **Length** 17.00, **Lead length** 73.50, **Height** 25.00, **Thickness** 10.00

*Set w/ springs: HC-CARGO 140840.*

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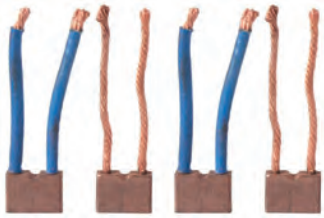

**PSX83-844** Brush Set

**Replacing:** 182153, 182132, 072630

**Servicing:** D11E122, D11E122T, D13E111, D13E111TE

24 **V**, **Length** 17.00, **Lead length** 73.50, **Height** 25.00, **Thickness** 10.00

*Set w/ springs: HC-CARGO 140851.*

**Alternative no.:** 140851

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**USX64-652** Brush Set

**Replacing:** 182194

6 **V**, **Length** 15.00, **Lead length** 46.00, **Height** 15.00, **Thickness** 8.00

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**USX682** Brush Set

**Replacing:** 618481, 075238

12 **V**, **Length** 15.00, **Lead length** 46.00, **Height** 15.00, **Thickness** 8.00

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## Brushes

Pkg. 100

**PS115** Brush

**Replacing:** PSX115-1162

12 **V**, **Length** 14.10, **Lead length** 65.50, **Height** 17.95, **Thickness** 6.92

**Alternative no.:** PSX115-1162

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Pkg. 100

**PS116** Brush

**Replacing:** PSX115-1162

12 **V**, **Length** 14.30, **Lead length** 66.00, **Height** 17.95, **Thickness** 6.95

**Alternative no.:** PSX115-1162

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Pkg. 100

**PS129A** Brush

**Replacing:** PSX1292/1P

**Servicing:** D9E140

12 **V**, **Length** 15.05, **Lead length** 68.00, **Height** 10.15, **Thickness** 6.00/9.55

**Alternative no.:** PSX1292/1P

---

Pkg. 100

**PS129B** Brush

**Replacing:** PSX1292/1P

**Servicing:** D9E140

12 **V**, **Length** 15.00, **Lead length** 41.50, **Height** 9.85, **Thickness** 6.50/9.85

**Alternative no.:** PSX1292/1P

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Pkg. 100

**PS133A** Brush

**Replacing:** PSX1332

**Servicing:** D9E82, D9E86

12 **V**, **Length** 15.00, **Lead length** 63.50, **Height** 11.80, **Thickness** 7.30/12.25

**Alternative no.:** PSX1332

---

Pkg. 100

**PS133B** Brush

**Replacing:** PSX1332

**Servicing:** D9E82

12 **V**, **Length** 15.00, **Lead length** 48.00, **Height** 11.75, **Thickness** 7.00/12.30

**Alternative no.:** PSX1332

---

Pkg. 100

**PS140/0** Brush

**Replacing:** PSX140-1414

12 **V**, **Length** 22.00, **Lead length** 47.00, **Height** 17.90, **Thickness** 8.85

**Alternative no.:** PSX140-1414

---

Pkg. 100

**PS141/S** Brush

**Replacing:** PSX140-1414

12 **V**, **Length** 22.00, **Lead length** 45.00, **Height** 17.90, **Thickness** 8.90

**Alternative no.:** PSX140-1414

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#Available while stock last, * Program development.

Pkg. 100

**PS142** Brush

**Servicing:** D7G14, D7R40, D7R48, D7RP204, D8R28, D8R49, TS24E3

12 **V**, **Length** 13.75, **Lead length** 35.50, **Height** 13.80, **Thickness** 6.85

**Alternative no.:** PSX142-1434

Pkg. 100

**PS143** Brush

**Servicing:** D7G14, D7R40, D7R48, D7RP204, D8R28, D8R49, TS24E3

12 **V**, **Length** 13.75, **Lead length** 35.50, **Height** 13.80, **Thickness** 6.85

**Alternative no.:** PSX142-1434

Pkg. 100

**PS144** Brush

**Replacing:** PSX142-1444

**Servicing:** D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

12 **V**, **Length** 17.95, **Lead length** 46.00, **Height** 11.00, **Thickness** 4.50/9.05

**Alternative no.:** PSX144-145K

Pkg. 100

**PS145** Brush

**Replacing:** 188571

**Servicing:** D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

12 **V**, **Length** 17.90, **Lead length** 86.00, **Lead length 2** 50.00, **Height** 11.00, **Thickness** 4.50/9.05

**Alternative no.:** PSX144-145K

Pkg. 100

**PS146#** Brush

**Replacing:** PSX146-147K

12 **V**, **Length** 13.90, **Lead length** 43.00, **Height** 10.85, **Thickness** 4.50/9.05

**Alternative no.:** PSX146-147K

Pkg. 100

**PS147#** Brush

**Replacing:** PSX146-147K

12 **V**, **Length** 13.90, **Lead length** 90.00, **Lead length 2** 51.00, **Height** 10.85, **Thickness** 4.50/8.90

**Alternative no.:** PSX146-147K

Pkg. 100

**PS155B** Brush

**Replacing:** 187144

**Servicing:** D7E... 2 COMPONENT, 105119C, D7E39, D7ED28, ESW10E7

12 **V**, **Length** 11.00, **Lead length** 31.50, **Height** 8.00, **Thickness** 6.40

**Alternative no.:** PSX1554

Pkg. 100

**PS169B** Brush

**Replacing:** 191773, 191772

**Servicing:** ACR, D6G1, D6G321, D6G332, D6GS12M, D6GS19, TS12ER20, TS14E110

12 **V**, **Length** 15.50, **Lead length** 22.50, **Height** 10.00, **Thickness** 3.90

*2 component. Overload protection.*

**Alternative no.:** PSX169-1704

Pkg. 100

**PS170B** Brush

**Replacing:** 191773, 191772

**Servicing:** ACR, D6G1, D6G321, D6G332, D6GS12M, D6GS19, TS12ER20, TS14E110

12 **V**, **Length** 15.50, **Lead length** 39.00, **Height** 10.00, **Thickness** 6.40

*2 component. Overload protection.*

**Alternative no.:** PSX169-1704

Pkg. 100

**PS99** Brush

**Replacing:** PSX1324

12 **V**, **Length** 14.25, **Lead length** 65.80, **Height** 17.95, **Thickness** 9.95

**Alternative no.:** PSX1324

## Bushings

Pkg. 10

**140038** Bushing

**Replacing:** 098888

**ID** 10.07, **OD** 13.05, **Length** 12.00

**Alternative no.:** B140038

Pkg. 10

**140043** Bushing

**Replacing:** 051914

**Servicing:** 532004C, D10E48, D10E59, D10E63, D10E72, D10E74, D10E75, D10E80, D10E81, D10E83, D10E85, D10E88, D10E881, D10E882

**ID** 12.10, **OD** 15.05, **Length** 15.00

**Alternative no.:** B140043

Pkg. 10

## 140064 Bushing

**Replacing:** 035070
**Servicing:** D10E66
**ID** 12.07, **OD** 15.05, **Length** 20.00
**Alternative no.:** B140064

Pkg. 10

## 140065 Bushing

**Replacing:** 604521, 047852
**Servicing:** D11E109, D11E120, D11E131, D11E142, D11E155, D11E156, D11E158, D11E159, D11E167T
**ID** 14.07, **OD** 18.05, **Length** 20.15
**Alternative no.:** B140065

Pkg. 10

## 140066 Bushing

**Replacing:** 072101, 030828
**Servicing:** D11E131, D11E155, D11E156, D11E167T
**ID** 16.00, **OD** 19.15, **Length** 15.00
**Alternative no.:** B140066

Pkg. 10

## 140067 Bushing

**Replacing:** 050488
**Servicing:** D11E120, D11E131, D11E156, D11E158, D11E163, D11E169, D11E172, D11E173, D11E176, D11E177, D11E187, D11E272
**ID** 20.02, **OD** 24.06, **Length** 12.00
**Alternative no.:** B140067

Pkg. 10

## 140068 Bushing

**Replacing:** 047403
**ID** 17.05, **OD** 21.05, **Length** 20.00
**Alternative no.:** B140068

Pkg. 10

## 140119 Bushing

**Replacing:** 074952
**Servicing:** D10E48, D10E63, D10E66, D10E72, D10E74, D10E80, D10E85, D10E92, D10E921, D8E109, D8E126, D9E16, D9E21
**ID** 16.00, **OD** 20.00, **Length** 10.00
**Alternative no.:** B140119

Pkg. 10

## 140258 Bushing

**Replacing:** 105464
**Servicing:** D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99
**ID** 10.03, **OD** 13.04, **Length** 13.00
**Alternative no.:** B140258

Pkg. 10

## 140259 Bushing

**Replacing:** 105715
**Servicing:** D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R142, D9R144, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91, D9R97, D9R99
**ID** 10.06, **OD** 13.04, **Length** 16.00
**Alternative no.:** B140259

Pkg. 10

## 140429 Bushing

**Replacing:** 36112-11140
**Servicing:** M000A0240Z, M04686, M35216, M39376, M39646, M43196, M56290, MC107023, MC108024, MC108027, MC108030, MC109011, MC109015
**ID** 12.02, **OD** 16.00, **Length** 9.50
**Alternative no.:** B140429

Pkg. 10

## 140440 Bushing

**Replacing:** 104164
**Servicing:** D10E88, D10E881, D10E882, D10E89
**ID** 16.00, **OD** 20.00, **Length** 8.00
**Alternative no.:** B140440

## 140472 Bushing Kit

**Replacing:** NE666, 182157
**Servicing:** D13E100TE, D13E101TE, D13E104TE, D13E105, D13E108TE, D13E111, D13E111TE, D13E116, D13E72, D13E73, D13E73TE, D13E74

## 140473 Bushing Kit

**Replacing:** NE486, 182158
**Servicing:** D13E107TE, D13E109TE, D13E110, D13E110TE, D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123



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Pkg. 10

## 140496 Bushing

**Servicing:** D6G3, D6G32, D6G33, D6G332, D6G5, D6RA10, D6RA12, D6RA13, D6RA132, D6RA133, D6RA141, D6RA15, D6RA16, D6RA161, D6RA162

**ID** 12.06, **OD** 15.04, **Length** 10.00

**Alternative no.:** B140496

Pkg. 10

## 140497 Bushing

**Servicing:** 626002, D6RA10, D6RA100, D6RA101, D6RA104, D6RA110, D6RA114, D6RA12, D6RA13, D6RA132, D6RA133, D6RA137, D6RA141, D6RA15

**ID** 6.05, **OD/collar** 13.76, **OD** 10.02, **Length** 8.30, **Height/collar** 2.10

**Alternative no.:** B140497

Pkg. 10

## 140498 Bushing

**Servicing:** 626002, D6RA100, D6RA101, D6RA104, D6RA114, D6RA132, D6RA15, D6RA162, D6RA163, D6RA167, D6RA168, D6RA181, D6RA249

**ID** 18.05, **OD** 22.04, **Length** 5.00

**Alternative no.:** B140498

Pkg. 10

## 140499 Bushing

**Servicing:** 626002, D6G3, D6G32, D6G33, D6G332, D6G5, D6GS12, D6GS13, D6GS14, D6RA100, D6RA101, D6RA104, D6RA114, D6RA132, D6RA15

**ID** 6.02, **OD** 9.00, **Length** 7.10

**Alternative no.:** B140499

Pkg. 10

## 140501 Bushing

**Replacing:** 078039

**ID** 12.00, **OD/collar** 18.00, **OD** 15.06, **Length** 16.00, **Height/collar** 1.50

**Alternative no.:** B140501

## 140526 Bushing Kit

**Replacing:** NE002, 182142

**Servicing:** D11E184, D11E189, D11E191, D11E192, D11E195, D11E197, D11E198

## 140531 Bushing Kit

**Replacing:** NE003, 182061

**Servicing:** D10E59, D10E69, D10E75, D10E81, D10E83, D8E104, D8E105, D8E106, D8E107, D8E110, D8E111, D8E112, D8E113, D8E114, D8E115

## 140533 Bushing Kit

**Replacing:** NE379, NE005, 182063

**Servicing:** 532001AB, 532001B, 532005A, 532007A, 532011A, 532012A, 532012B, 532017A, 532020A, 532020B, 532021A, 532023A, 532024A

**ID** 12.07, **OD** 15.07, **Length** 12.01

## 140536 Bushing Kit

**Replacing:** NE007, 182096

**Servicing:** D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922

## 140537 Bushing Kit

**Replacing:** NE008, 182136

**Servicing:** D11E108, D11E118, D11E119, D11E119T, D11E120, D11E131, D11E137, D11E139, D11E139T, D11E141, D11E144, D11E146, D11E148

## 140539# Bushing Kit

**Replacing:** NE010, 182138

**Servicing:** D11E122, D11E122T, D11E128, D11E128T, D11E129, D11E129T, D11E138, D11E138T, D11E149

## 140540 Bushing Kit

**Replacing:** NE011, 182139

**Servicing:** 182442, D11E120, D11E126, D11E142, D11E143, D11E153, D11E153T, D11E154, D11E155, D11E156, D11E158, D11E159, D11E160

## 140541 Bushing Kit

**Replacing:** NE012, 182140

**Servicing:** D11E163, D11E164, D11E169, D11E172, D11E173, D11E176, D11E177, D11E178, D11E187, D11E188, D11E192, D11E272

## 140543 Bushing Kit

**Replacing:** NE381

**Servicing:** 6056H, 6056J, 6099C, 6099D, 6109F, 6109G, 6109H, 6109K, 6109L, 6160D, 6160E, 6160F, 6160G, 6169A, 6169B, 6177A, 6177C

Pkg. 10

## 140615 Bushing

**Servicing:** D6RA110, D6RA132, D6RA133, D6RA161, D6RA162, D6RA163, D6RA249, D6RA30, D6RA32, D6RA33, D6RA45, D6RA46, D6RA51, D6RA56

**ID** 6.00, **OD/collar** 13.76, **OD** 10.20, **Length** 8.20, **Height/collar** 1.55

**Alternative no.:** B140615

Pkg. 10

## 140667 Bushing

**Replacing:** 068763, 050531

**Servicing:** D11E163

**ID** 14.05, **OD** 18.05, **Length** 15.00

Pkg. 10

## 140669 Bushing

**Replacing:** 071437

**ID** 25.03, **OD/collar** 39.00, **OD** 32.07, **Length** 20.00, **Height/collar** 3.50

**Alternative no.:** B140669

Pkg. 10

## 140670 Bushing

**Replacing:** 071381

**ID** 16.05, **OD** 20.04, **Length** 24.90

**Alternative no.:** B140670

Pkg. 10

## 140671 Bushing

**Replacing:** 074330

**ID** 27.05, **OD** 35.07, **Length** 14.40

**Alternative no.:** B140671

Pkg. 10

## 140672 Bushing

**Replacing:** 046388

**ID** 20.05, **OD** 28.05, **Length** 29.00

**Alternative no.:** B140672

Pkg. 10

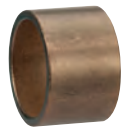
## 140673 Bushing

**Replacing:** 046390

**ID** 20.05, **OD/collar** 33.00, **OD** 28.07, **Length** 24.90, **Height/collar** 3.00

**Alternative no.:** B140673

Pkg. 10



## 140676 Bushing

**Replacing:** 095654

**Servicing:** D11E155, D11E167T

**ID** 20.04, **OD** 24.05, **Length** 16.00

**Alternative no.:** B140676

Pkg. 10

## 140679 Bushing

**Replacing:** 048499

**ID** 20.10, **OD** 24.02, **Length** 18.00

**Alternative no.:** B140679

Pkg. 10

## 140680 Bushing

**Replacing:** 074322, 055330

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

**ID** 17.08, **OD** 21.05, **Length** 24.00

**Alternative no.:** B140680



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Pkg. 10

**140683** Bushing

**Replacing:** 075289

**ID** 25.02, **OD** 30.04, **Length** 15.00

**Alternative no.:** B140683

Pkg. 10

**140684** Bushing

**Replacing:** 096485

**Servicing:** D11E163

**ID** 14.05, **OD** 18.03, **Length** 16.00

**Alternative no.:** B140684

Pkg. 10

**140734** Bushing

**Servicing:** D7G11, D7G26, D7GS10, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R22, D7R23, D7R25, D7R26, D7R34, D7R4, D7R43, D7R44

**ID** 7.02, **OD** 10.00, **Length** 6.10

**Alternative no.:** B140734

Pkg. 10

**140735** Bushing

**Servicing:** D7G11, D7G26, D7GS10, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R22, D7R23, D7R25, D7R26, D7R34, D7R4, D7R43, D7R44

**ID** 20.02, **OD** 24.03, **Length** 5.00

**Alternative no.:** B140735

Pkg. 10

**140952** Bushing

**Servicing:** D6RA15, D6RA168, D6RA42, D6RA43, D6RA47, D6RA63, D6RA68, D6RA7

**ID** 4.00, **OD** 7.00, **Length** 7.40

Pkg. 10

**140959** Bushing

**Replacing:** 103063

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

**ID** 19.00, **OD** 23.02, **Length** 25.00

**Alternative no.:** B140959

Pkg. 10

**141097** Bushing

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

**ID** 21.92, **OD** 28.05, **Length** 18.00

Pkg. 10

**141145** Bushing

**Servicing:** M52100, M53486, MP112033, MP112040, MP112042, TM000A07901, TM000A08401

**ID** 8.10, **OD** 11.55, **Length** 11.63

Pkg. 10

**141146** Bushing

**ID** 10.12, **OD** 14.00, **Length** 12.00

Pkg. 10

**141160** Bushing

**Servicing:** D6RA165, D6RA185, D6RA85

**ID** 18.08, **OD** 22.06, **Length** 4.95

Pkg. 10

**141221** Bushing

**Servicing:** 594436

**ID** 11.08, **OD** 12.10, **Length** 15.30

Pkg. 10

**141252** Bushing

**Servicing:** 1195239, 1250303, M56290, S0001250303, TM000A27301, TM000A31001, TM000A37001, TM000A37201, TM000A37301

**ID** 12.02, **OD/collar** 19.66, **OD** 16.00, **Length** 10.96, **Height/collar** 2.06

Pkg. 10

**141264** Bushing

**Servicing:** TM000A31201

**ID** 19.00, **OD** 23.50, **Length** 10.00

**142000** Bushing Kit
**Replacing:** 594458
**Servicing:** D7ES1, D7ES2, D7ES4
**ID** 25.15/8.03, **OD** 29.20/11.02, **Length** 8.00/9.50

Pkg. 10

**142009** Bushing
**Servicing:** 594631
**ID** 12.09, **OD** 14.03, **Length** 22.90

Pkg. 10

**142027** Bushing
**Servicing:** TS18ER20
**ID** 12.00, **OD** 15.40, **Length** 10.00

Pkg. 10

**142028** Bushing
**Servicing:** D6G3, D6GS12, D6GS13
**ID** 14.00, **OD** 18.05, **Length** 6.40

Pkg. 10

**142076** Bushing
**Servicing:** 1250449
**ID** 10.07, **OD** 13.05, **Length** 9.99

Pkg. 100

**B140038** Bushing
**Replacing:** 098888
**ID** 10.07, **OD** 13.05, **Length** 12.00
**Alternative no.:** 140038

Pkg. 100

**B140043** Bushing
**Replacing:** 051914
**ID** 12.10, **OD** 15.05, **Length** 15.00
**Alternative no.:** 140043

Pkg. 100

**B140064** Bushing
**Replacing:** 035070
**ID** 12.06, **OD** 15.07, **Length** 19.90
**Alternative no.:** 140064

Pkg. 100

**B140065** Bushing
**Replacing:** 604521, 047852
**ID** 14.07, **OD** 18.05, **Length** 20.15
**Alternative no.:** 140065

Pkg. 100

**B140066** Bushing
**Replacing:** 072101, 030828
**ID** 16.00, **OD** 19.15, **Length** 15.00
**Alternative no.:** 140066

Pkg. 100

**B140067** Bushing
**Replacing:** 050488
**ID** 20.02, **OD** 24.06, **Length** 12.00
**Alternative no.:** 140067

Pkg. 100

**B140068** Bushing
**Replacing:** 047403
**ID** 17.05, **OD** 21.05, **Length** 20.00
**Alternative no.:** 140068

Pkg. 100

**B140119** Bushing
**Replacing:** 074952
**ID** 16.00, **OD** 20.00, **Length** 10.00
**Alternative no.:** 140119

Pkg. 100

**B140258** Bushing
**Replacing:** 105464
**ID** 10.03, **OD** 13.04, **Length** 13.00
**Alternative no.:** 140258

Pkg. 100

**B140259** Bushing
**Replacing:** 105715
**ID** 10.06, **OD** 13.04, **Length** 16.00
**Alternative no.:** 140259



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Pkg. 100

**B140333** Bushing
**Replacing:** B140333
**ID** 12.53, **OD** 15.50, **Length** 10.50
**Alternative no.:** 140333

Pkg. 100

**B140440** Bushing
**Replacing:** 104164
**ID** 16.00, **OD** 20.00, **Length** 8.00
**Alternative no.:** 140440

Pkg. 100

**B140496** Bushing
**Replacing:** 140496
**Servicing:** D6G1, D6G321, D6RA138, TS12E9
**ID** 12.06, **OD** 15.04, **Length** 10.00
**Alternative no.:** 140496

Pkg. 100

**B140497** Bushing
**Replacing:** 140497
**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP404
**ID** 6.05, **OD/collar** 13.76, **OD** 10.02, **Length** 8.30, **Height/collar** 2.10
**Alternative no.:** 140497

Pkg. 100

**B140498** Bushing
**Replacing:** 140498
**ID** 18.05, **OD** 22.04, **Length** 5.00
**Alternative no.:** 140498

Pkg. 100

**B140499** Bushing
**Replacing:** 140499
**Servicing:** D6G1, D6G321, D6GS11, D6GS12M, D6GS19, TS12E9, TS14E110
**ID** 6.02, **OD** 9.04, **Length** 7.05
**Alternative no.:** 140499

Pkg. 100

**B140501** Bushing
**Replacing:** 078039
**ID** 12.00, **OD/collar** 18.00, **OD** 15.06, **Length** 16.00, **Height/collar** 1.50
**Alternative no.:** 140501

Pkg. 100

**B140615** Bushing
**Replacing:** 140615
**ID** 6.00, **OD/collar** 13.76, **OD** 10.20, **Length** 8.20, **Height/collar** 1.50
**Alternative no.:** 140615

Pkg. 100

**B140669** Bushing
**Replacing:** 071437
**ID** 25.02, **OD/collar** 39.00, **OD** 32.10, **Length** 19.80, **Height/collar** 3.45
**Alternative no.:** 140669

Pkg. 100

**B140670** Bushing
**Replacing:** 071381
**ID** 16.05, **OD** 20.04, **Length** 24.90
**Alternative no.:** 140670

Pkg. 100

**B140671** Bushing
**Replacing:** 074330
**ID** 27.05, **OD** 35.07, **Length** 14.40
**Alternative no.:** 140671

Pkg. 100

**B140672#** Bushing
**Replacing:** 046388
**ID** 20.05, **OD** 28.05, **Length** 29.00
**Alternative no.:** 140672



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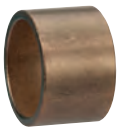
Pkg. 100

**B140673**[#] Bushing
**Replacing:** 046390
**ID** 20.05, **OD/collar** 33.00, **OD** 28.07, **Length** 24.90, **Height/collar** 3.00
**Alternative no.:** 140673

Pkg. 100



**B140676** Bushing
**Replacing:** 095654
**ID** 20.04, **OD** 24.05, **Length** 16.00
**Alternative no.:** 140676

Pkg. 100

**B140679** Bushing
**Replacing:** 048499
**ID** 20.10, **OD** 24.02, **Length** 18.00
**Alternative no.:** 140679

Pkg. 100

**B140680** Bushing
**Replacing:** 074322, 055330
**ID** 17.08, **OD** 21.05, **Length** 24.00
**Alternative no.:** 140680

Pkg. 100

**B140683** Bushing
**Replacing:** 075289
**ID** 25.02, **OD** 30.04, **Length** 15.00
**Alternative no.:** 140683

Pkg. 100

**B140684** Bushing
**Replacing:** 096485
**ID** 14.04, **OD** 18.03, **Length** 15.90
**Alternative no.:** 140684

Pkg. 100

**B140734** Bushing
**Replacing:** 140734
**Servicing:** D7G26, TS22E45
**ID** 7.02, **OD** 10.00, **Length** 6.10
**Alternative no.:** 140734

Pkg. 100

**B140735** Bushing
**Replacing:** 140735
**Servicing:** D7G26, ESW20ER123, ESW20ER-123HE, TS18ER20, TS22E45
**ID** 20.02, **OD** 24.03, **Length** 5.00
**Alternative no.:** 140735

Pkg. 100

**B140959** Bushing
**Replacing:** 103063
**ID** 19.00, **OD** 23.02, **Length** 25.00
**Alternative no.:** 140959

## Bearings

### Needle Bearings

Pkg. 5

**140919** 5★ Needle Bearing
**Replacing:** 186448
**Servicing:** 626002, D6RA100, D6RA107, D6RA110, D6RA114, D6RA137, D6RA138, D6RA167, D6RA168, D6RA181, D6RA187, D6RA188, D6RA67
**ID** 10.00, **OD** 14.00, **Height** 14.00
*Closed end.*

Pkg. 5

**141001** 5★ Needle Bearing
**Servicing:** 188839, D7G11, D7R1, D7R13, D7R16, D7R17, D7R18, D7R2, D7R20, D7R25, D7R3, D7R4, D7R40, D7R45, D7R61, D7R8, D7RP82
**ID** 10.00, **OD** 14.00, **Height** 12.00

Pkg. 10

**141168** 5★ Needle Bearing
**Servicing:** 626002, D6RA100, D6RA114, D6RA167, D6RA181, D6RA67, D6RA81, D6RA91
**ID** 4.00, **OD** 8.00, **Height** 7.90



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Pkg. 10

**141225** Needle Bearing

**Servicing:** 191335, 458389, D6GS11, D6GS12, D6GS12M, D6GS13, D6GS14, D6GS19, D7GS10, D7GS8, D7GS9, D7RS129, D7RS130, D7RS131

**ID** 29.50, **OD** 36.70, **Height** 13.30

Pkg. 5

**142003** Needle Bearing

**Servicing:** D7ES5, TS10E26

**ID** 26.10, **OD** 33.00, **Height** 13.70

## Repair Kits

**133078** Stop Collar Kit

**Replacing:** 594084

**Servicing:** D6RA10, D6RA11, D6RA12, D6RA13, D6RA132, D6RA133, D6RA141, D6RA15, D6RA16, D6RA161, D6RA162, D6RA163, D6RA168, D6RA17

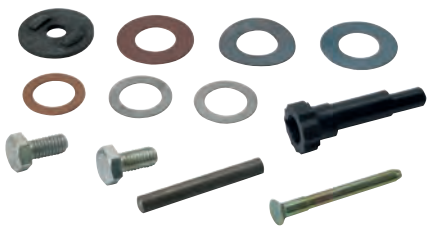
**135635** Repair Kit

**Servicing:** D6RA10, D6RA12, D6RA8

**135636** Repair Kit

**Replacing:** 594243

**Servicing:** D6RA100, D6RA101, D6RA104, D6RA105, D6RA107, D6RA110, D6RA115, D6RA132, D6RA16, D6RA162, D6RA163, D6RA168, D6RA18



**136227** 5★ Repair Kit

**Manufacturer:** Valeo

**Replacing:** 182060

**Servicing:** D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90, D10E92, D10E921, D10E922, D8E117, D8E121, D8E130, D8E131

**231074** Stop Collar Kit

**Replacing:** 594242

**Servicing:** 626002, D6RA100, D6RA107, D6RA108, D6RA109, D6RA114, D6RA137, D6RA165, D6RA167, D6RA168, D6RA180, D6RA181, D6RA185

**231117** 5★ Repair Kit

**Manufacturer:** Valeo

**Replacing:** 182050

**Servicing:** D9R105, D9R1050, D9R106, D9R112, D9R116, D9R118, D9R119, D9R121, D9R122, D9R126, D9R134, D9R135, D9R139, D9R142, D9R144

**233616**# 5★ Repair Kit

**Manufacturer:** Valeo

**Replacing:** 594302

**Servicing:** D13HP601, D13HP607

**234021** 5★ Repair Kit

**Manufacturer:** Valeo

**Replacing:** 594200

**Servicing:** D13HP605, D13HP607, D13HP608, D13HP609, D13HP613, D13HP701, D13HP702, D13HP703, D13HP704, D13HP705, D13HP709

## Sundry Parts

### C.E. Covers

**137573** Cover

**Replacing:** 097802

**Servicing:** D9E100, D9E101, D9E132, D9E136, D9E137, D9E138, D9E200, D9E237, D9E238, D9E276, D9E278, D9E300, D9E36, D9E38, D9E39

**OD** 41.15, **Height** 10.20

**231195** Cover Kit

**Servicing:** HQ808670, MG122202, TM000A06101, TM000A18601, TM000A23601, TM000V23601

Pkg. 5

**231495** Cover

**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

**ID** 13.75, **OD** 14.30, **Height** 13.95

**232848**# Cover

**Servicing:** D11E119, D11E119T, D11E131, D11E155, D11E167T, D11E188, D11E191, D11E192

**OD** 116.50, **Height** 5.45

## Oil Seals

Pkg. 5

**134481** Oil Seal

**Servicing:** 182178, D9R91

**ID** 18.30, **OD** 30.20, **Height** 6.95

Pkg. 5

**139588** Oil Seal

**Replacing:** 074981

**Servicing:** D13E110, D13E110TE, D13E117TE, D13E118TE, D13E120TE, D13E123, D13E1231TE, D13E123TE

**ID** 25.70, **OD** 37.15, **Height** 6.80

Pkg. 5

**231573** Oil Seal

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

**ID** 21.60, **OD** 32.15, **Height** 6.70

**232855** Oil Seal

**Servicing:** D7ES1, D7ES2, D7ES4

**ID** 31.85, **OD** 41.45, **Height** 5.65

## O-rings

Pkg. 10

**134488** O-ring

**Thickness** 2.00

Pkg. 10

**134776** O-ring

**Servicing:** 2541182, A13N183

**ID** 12.00, **Thickness** 3.00

Pkg. 10

**134931** O-ring

**Servicing:** D11E120, D11E126, D11E184, D11E191

**ID** 52.00, **Thickness** 3.00

Pkg. 5

**136431** O-ring

**Replacing:** 055578

**Servicing:** D11E120, D11E122, D11E122T, D11E126, D11E131, D11E137, D11E142, D11E154, D11E156, D11E158, D11E159, D11E167T, D11E184

**ID** 106.00, **Thickness** 4.50

Pkg. 10

**138193** O-ring

**Servicing:** D9R91

**ID** 71.00, **Thickness** 3.00

Pkg. 10

**231331** O-ring

**Replacing:** 092524

**ID** 49.20, **Thickness** 2.75

Pkg. 10

**233985** O-ring

**Thickness** 1.83, **Material** Niopprene



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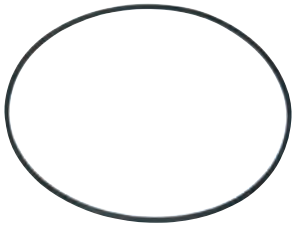
#Available while stock last, * Program development.

Pkg. 10



**331675** O-ring

**Servicing:** 2543388, 2543398A, 2543597, 2605546, 2606272, 2606272A, 2607765A, 2608901A, 2608901C, TG14C020, TG14C027, TG14C031

**ID** 133.80, **Thickness** 2.60

Pkg. 5

**334026** O-ring

**Servicing:** 2543291, 2543469, 2543469A, 2543590, 2543590A, 2606005, 2606005A, TG11C048, TG11C056, TG11C057, TG11C068

**ID** 122.50, **Thickness** 3.00

## Various

Pkg. 5

**131618** Cover

**Replacing:** 075953

**OD** 28.35, **Height** 18.10

Pkg. 5

**131810** Cover

**Replacing:** 096473

**OD** 32.35, **Height** 18.90

Pkg. 5

**132381** Cover

**OD** 48.85, **Height** 10.30

Pkg. 10

**133388** Adaptor

**Servicing:** D9E131, D9E132, D9E43, D9E44, D9E83

**Thread size** M8

Pkg. 5

**134106** Rubber Seal

**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

**ID** 51.50, **OD** 61.20, **Thickness** 5.60, **Material** Rubber

Pkg. 10

**134107** Rubber Seal

**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

**OD** 25.80, **Length** 34.00

Pkg. 10

**134140** Connection

**Servicing:** D8E132

*Old type.*

Pkg. 25

**134289** Insulator

**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

**ID** 10.80, **OD** 13.80, **Length** 22.55

Pkg. 10

**134756** Gasket

**Servicing:** D9E140, D9E86

**ID/mount. hole** 5.00, **Length** 51.55, **Thickness** 0.40, **Width** 41.45

Pkg. 10

**134779** Plate

**Thickness** 1.45, **Gasket** w/o

## 134790 Stop Collar Kit

**Replacing:** 097804

**Servicing:** D10E66, D10E72, D10E74, D10E75, D10E79, D10E81, D10E83, D10E85, D10E87, D10E88, D10E881, D10E882, D10E89, D10E90

## 134791 Stop Collar Kit

**Replacing:** 073294

**Servicing:** D10E47, D10E48, D10E54, D10E57, D10E59, D10E63, D10E64, D10E65, D10E68, D10E69, D10E73, D10E76, D10E80, D10E84, D11E163

**ID** 12.00, **OD** 17.50, **Height** 6.10

Pkg. 10

## 134980# Rubber Seal

Pkg. 10

## 135014 Insulator

**Servicing:** D10E88, D10E881, D10E882, D10E89, D11E163, D11E167T, D11E169, D11E172, D11E173, D11E176, D11E177, D11E187, D11E191

**Dim. A** 22.55, **Dim. B** 21.65, **Dim. D** 12.51

## 135317 Rubber Seal

**Servicing:** D9E140

Pkg. 10

## 135516 Cover

**Servicing:** D7R40, D7R48, D7RP204, D8R1, D8R28, D8R49, ESW20E26, ESW20ER121, ESW20ER123, ESW20ER123HE

**OD** 23.90, **Height** 15.80

Pkg. 10

## 135645 Screw

**Replacing:** 182041

**Servicing:** 182442, D11E108, D11E118, D11E119, D11E119T, D11E120, D11E122, D11E122T, D11E128, D11E128T, D11E129, D11E129T, D11E130

**Thread** M10, **Total length** 16.00, **Thread length** 11.00

Pkg. 10

## 135846 Retaining Ring

**Servicing:** 188839, 190895, D6G1, D6G32, D6G321, D6G5, D6RA107, D6RA110, D6RA137, D6RA138, D6RA187, D6RA188, D6RA293, D6RA37

*Stop collar: HC-CARGO 137742.*

Pkg. 5

## 135879 Grommet

**Servicing:** D10E85, D10E92, D10E921, D9E100, D9E11, D9E123, D9E138, D9E200, D9E237, D9E276, D9E278, D9E300, D9E36, D9E39, D9E45

Pkg. 10

## 135968 Grommet

**Servicing:** D7RP123, D7RS130, D7RS131, D7RS30, D7RS301, D7RS31, D9R121, D9R122, D9R142, D9R149, D9R73, D9R84, D9R89, D9R90, D9R91

**Dim. A** 25.40, **Dim. B** 22.40, **Dim. D** 8.00

Pkg. 5

## 136273# Gasket

**Replacing:** 092645

**ID** 28.00, **ID/mount. hole** 6.15, **OD** 54.50, **Thickness** 1.30

Pkg. 5

## 136280 Gasket

**Length** 306.80, **Thickness** 0.45, **Width** 57.90



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

Pkg. 5

**136323** Insulator

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**136671** Stop Collar Kit

**Replacing:** 059454

**Servicing:** D11E122, D11E122T, D11E128, D11E128T, D11E130, D11E138, D11E138T, D11E149, D11E89, D11E89T, D11E89TE, D11E90, D11E90T

**ID** 17.00, **OD** 25.00, **Height** 8.10

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Pkg. 25

**136736** Insulator

**ID** 11.50, **OD** 16.60, **Thickness** 1.00

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Pkg. 10

**138140**# Seal Kit

**Replacing:** 096486, 077526

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**138645** Sealing Kit

**Replacing:** 182038

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE, D13HP601, D13HP605

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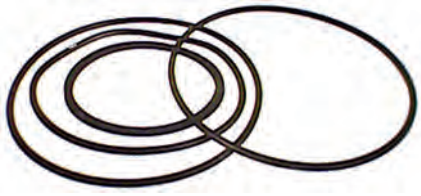

**138646**# Sealing Kit

**Replacing:** 072175

**Servicing:** D13E101TE, D13E108TE, D13E111, D13E111TE, D13E116, D13E72, D13E73, D13E73TE, D13E74, D13E74TE, D13E78, D13E78TE, D13E79

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**138647**# Washer Kit

**Replacing:** 182160

**Servicing:** D13E117TE, D13E118TE, D13E119TE, D13E120TE, D13E121TE, D13E122TE, D13E123, D13E1231TE, D13E123TE, D13HP605

*4 mixed plates.*

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**138649** Washer Kit

**Replacing:** 182155

**Servicing:** D13E101TE, D13E105, D13E108TE, D13E111, D13E111TE, D13E116, D13E72, D13E73, D13E73TE, D13E74, D13E74TE, D13E78

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Pkg. 10

**138766**# Brake Washer

**ID** 12.20, **OD** 19.00, **Thickness** 0.80

---

**139174** 5★ Brake Washer

**Manufacturer:** Valeo

**Replacing:** 182197

**Servicing:** D11E126, D11E131, D11E158, D11E167T, D13E100TE, D13E101TE, D13E104TE, D13E105, D13E107TE, D13E108TE, D13E109TE, D13E110

**ID** 37.85, **OD** 54.00, **Thickness** 4.25

---

Pkg. 10

**139380** Connection

**Replacing:** 079243

**Servicing:** D11E131

**Mount. hole** 8.00, **Mount. hole 2** 8.00, **Total length** 97.45

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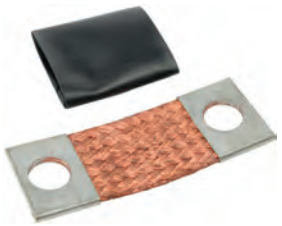

**139535** Connection

**Replacing:** 182159

**Servicing:** D13E100TE, D13E101TE, D13E104TE, D13E105, D13E107TE, D13E108TE, D13E109TE, D13E110TE, D13E111, D13E117TE, D13E118TE

**Mount. hole** 12.60, **Mount. hole 2** 12.60, **Total length** 82.20

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Pkg. 100

**192405** Socket Screw

**Replacing:** 192405

**Servicing:** D6RA105, D6RA110, D6RA115, D6RA138, D6RAD183, D6RADP359, D6RAP229

**Thread** M5, **Length** 45.00, **Quality** 12.9, **DIN norm** 912, **ISO Norm** 4762

---

Pkg. 10

## 230565 Stop Collar

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E39

**ID** 11.10, **OD** 16.00, **Height** 3.55
*Used w/ retaining ring: HC-CARGO 230566.*

Pkg. 5

## 230566 Retaining Ring

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32

**Thickness** 1.20
*Stop collar: HC-CARGO 230565.*

Pkg. 5

## 230707 Insulator

**Servicing:** 105119C, D7E1, D7E15, D7E16, D7E18, D7E19, D7E2, D7E20, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32

## 231194 Stop Collar Kit

**ID** 12.10, **OD** 17.40, **Height** 5.00

## 231697# Fiber Washer

**Servicing:** D13HP601, D13HP605, D13HP607, D13HP702, D13HP703, D13HP709

**ID** 35.85, **OD** 50.30, **Thickness** 4.70, **Material** Fiber

## 231717 Stop Collar Kit

**Replacing:** 059453

**Servicing:** 182442, D11E120, D11E131, D11E142, D11E143, D11E153, D11E153T, D11E158, D11E159, D11E165, D11E167T, D11E170, D11E180

**ID** 14.00, **OD** 20.00, **Height** 6.10

Pkg. 5

## 233164 Drain Tube

**Servicing:** HQ808670, MG122202, MG122433, MP112033, MP112040, MP112042, TM000A18601, TM000A23601, TM000V23601

**ID** 7.70, **OD** 11.55, **Length** 9.90

Pkg. 5

## 233656 Connector

**Servicing:** D13HP601, D13HP605, D13HP607

Pkg. 10

## 233818 Washer

**Servicing:** 105119C, D7E1, D7E18, D7E38, D7E4, D7E6, D7E7, D7E8, D7ES1, D7ES2, D7ES4, D7ES5, TS10E26

**ID** 8.20, **OD** 15.95, **Thickness** 0.80, **Material** Steel

Pkg. 10

## 233819 Washer

**Servicing:** D7E1, D7E16, D7E19, D7E2, D7E22, D7E23, D7E25, D7E26, D7E27, D7E29, D7E30, D7E31, D7E32, D7E40, D7E41, D7E42, D7E47

**ID** 4.25, **OD** 13.65, **Thickness** 1.00, **Material** Steel

Pkg. 10

## 234888 Gasket

**Servicing:** 191335, 458389, D6GS11, D6GS12M, D7GS10, D7GS8, D7GS9, D7RS129, D7RS130, D7RS131, D7RS150, D7RS29, D7RS30, D7RS301

**ID** 29.80, **OD** 36.70, **Thickness** 2.40

Pkg. 10

## 234987 Washer

**Servicing:** D6RA105, D6RA107, D6RA110, D6RA115, D6RA138, D6RA70, D6RA91, D6RAD183, D6RADP359, D6RAP229, D6RAP404

**ID** 6.30, **OD** 15.50, **Thickness** 1.00, **Material** Metal



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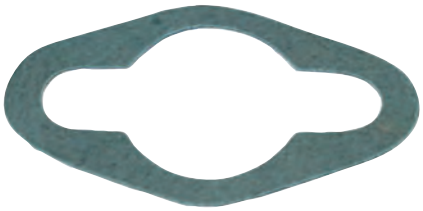
#Available while stock last, * Program development.

Pkg. 10



**235158** Gasket

**Servicing:** D7ES1, D7ES2, D7ES4, D7ES5, TS10E26

**ID** 17.60, **Length** 40.50, **Thickness** 0.50, **Width** 23.50, **Material** Cardboard

Pkg. 10

**236094** Drain Tube

**Servicing:** M52100, TM000A07901

Pkg. 10

**236711** Washer

**Servicing:** 626002, D6RA105, D6RA114, D6RA115, D6RA137, D6RA138, D6RA187, D6RA188, D6RA293, D6RA37, D6RA42, D6RA43, D6RA431, D6RA57

**ID** 6.00, **OD** 12.00, **Thickness** 0.30

Pkg. 10

**236712** Washer

**Servicing:** 626002, D6RA114, D6RA137, D6RA138, D6RA187, D6RA188, D6RA22, D6RA293, D6RA42, D6RA43, D6RA431, D6RA52, D6RA571, D6RA59

**ID** 6.00, **OD** 12.00, **Thickness** 1.00

Pkg. 10

**236895** Gasket

**Servicing:** D7ES5, TS10E26

**ID** 25.83, **OD** 33.13, **Thickness** 1.88, **Material** Rubber

Pkg. 10

**239398** Drive plug

**Replacing:** 239398

**Servicing:** D7ES5

**ID** 11.80, **OD** 13.45, **Height** 3.55

Pkg. 10

**332877** Bushing

**Servicing:** TS10E26

**ID** 8.07, **OD** 11.06, **Length** 9.50

Pkg. 5

**334197** Stop Collar

**Servicing:** D7E18, D7E38, D7E4, D7E8, D7ED28

**ID** 11.11, **OD** 15.45, **Height** 3.19



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

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## Armatures

### 12 V

NEW PRODUCT
www.hc-cargo.com

**333779*** Armature

## Solenoids

### 24 V

**333532**# 5★ Solenoid
**Manufacturer:** Bosch
24 **V**, **B+** M10, **Kl. 50** M5, **OD** 61.50, **OD/cover** 54.00, **Total length** 119.20, **Switch dim.** 7.80, **Height/B+** 30.70, **No./terminals** 4

## Solenoid Parts

### Moving Contacts

Pkg. 100

**B235538** Moving Contact
**Length** 36.00, **Shaft measurement** 31.60, **Thickness** 2.00, **Width** 15.00 mm
**Alternative no.:** 235538

## Drives

**134722** Drive
**Replacing:** ST212-3708600B, CT212-3708600
**ID** 16.00, **OD** 36.10, **OD/housing** 68.00, **Total length** 107.60, **Splines A** 4, **No./teeth** 10, **Drive type** Steel, **Rotation** CR

**134723** Drive
**Replacing:** CT352D-3708600-3, 3708600-3, 24.3708600
**ID** 16.00, **OD** 36.45, **OD/housing** 65.50, **Total length** 107.50, **Splines A** 12, **No./teeth** 10, **Rotation** CR

**330545** Drive
**Servicing:** 8000129, 96843574
**ID** 12.01, **OD** 29.21, **OD/housing** 45.86, **Total length** 46.88, **Splines A** 6, **No./teeth** 9, **Rotation** CR

## Planet Gears

### Gear Parts

### Gear Wheels

Pkg. 100

**B134066** Gear Wheel
**Alternative no.:** 134066

Pkg. 100

**B134875** Gear Wheel
**Replacing:** 5420D
**ID** 5.20, **OD** 18.20, **Height** 12.00, **No./teeth** 12
**Alternative no.:** 134875

Pkg. 10

**B139572** Gear Wheel
**Alternative no.:** 139572

## Brush Sets

**140872** Brush Set
**Replacing:** 24.3708025
12 **V**, **Length** 21.70, **Lead length** 74.00, **Height** 22.45, **Thickness** 17.50

**140873** Brush Set
**Replacing:** 20.3709125, 20.3709115, 20.3708125, 20.3708115
24 **V**, **Length** 20.38, **Lead length** 67.80, **Lead length 2** 42.50, **Height** 31.90, **Thickness** 11.81

**MOSX5-68** Brush Set
**Replacing:** MOSX5-68
12 **V**, **Length** 22.60, **Lead length** 66.00, **Height** 15.95, **Thickness** 11.00



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

**141083** Brush Set

**Servicing:** Renault, Peugeot, Citroen, Electric power steering

**Length** 21.15, **Lead length** 60.50, **Height** 12.25, **Thickness** 6.95

## Brushes

Pkg. 100

**610524** Brush

**Servicing:** 23300-00QAW, 23300-00QAZ, 23300-BN701, 23300-BN70A, 7711135521, 8200021396, 8200227092, 8200426577, 8200584658

**Length** 12.00, **Lead length** 33.50, **Height** 11.90, **Thickness** 4.35

Pkg. 10

**SW126** Brush

**Replacing:** 495299

**Length** 6.23, **Lead length** 21.95, **Height** 10.92, **Thickness** 6.35

## Bushings

Pkg. 10

**141206** Bushing

**Servicing:** Siemens

**ID** 12.50, **OD/collar** 18.00, **OD** 16.00, **Length** 20.00, **Height/collar** 2.00

Pkg. 10

**141207** Bushing

**Servicing:** Siemens

**ID** 19.22, **OD** 22.53, **Length** 11.00

Pkg. 10

**141208** Bushing

**Servicing:** Siemens

**ID** 14.02, **OD** 18.04, **Length** 17.00

## Sundry Parts

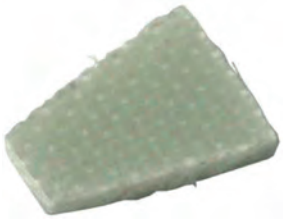
### Various

Pkg. 100

**610203** Spring psx144-145k

**Servicing:** 7700113627, 7711134297, 8200143045, D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404

Pkg. 100



**610204** Insulator

**Servicing:** 7700113627, 7711134297, 8200143045, D6RA105, D6RA107, D6RA115, D6RA138, D6RA70, D6RAD183, D6RADP359, D6RAP229, D6RAP404

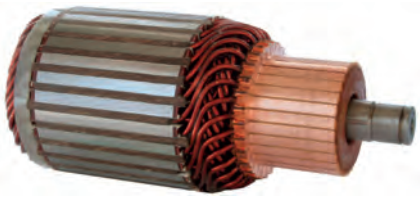
Pkg. 100

**610205** Spring psx146-147k

Pkg. 100

**610210** Cover

## Armatures

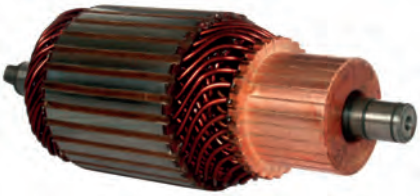


**137091** Armature

**Replacing:** 2134014178

**Servicing:** 0136355072, 0136355074, 0136355077, 0136355078, B136364072, B136364076, B136364081

24 **V**, 1.5 **kW**, **Shaft length** 174.50, **Core thickness** 73.00



**137093** Armature

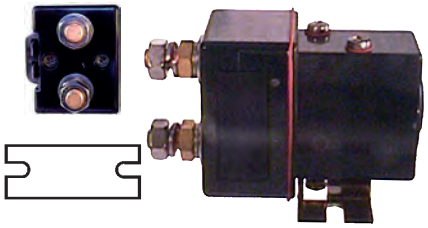
**Replacing:** 2134014180, 2134014175, 2134014170, 16.360.901

**Servicing:** 0136355050, 0136355057, 0136355058, 0136355059, 0136355060, 0136355061, 0136355064, 0136355067, 0136355068, 0136355070

24 **V**, 1.5 **kW**, **Shaft length** 205.00, **Core thickness** 73.00

## Solenoids

### 12 V

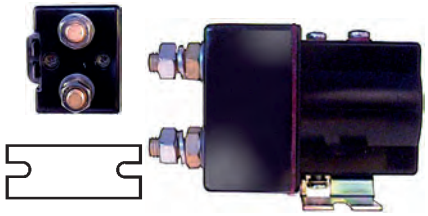


**138684**[#] Solenoid

**Replacing:** SW80-751PE, 3212

12 **V**, 100 **Amp**, **B+** M8, **Total length** 94.00, **Height/B+** 19.00, **Coil bolt** M8, **Coil bolt 2** 19.80, **No./terminals** 4
*Silver contact. Universal.*

### 24 V



**138685** Solenoid

24 **V**, 100 **Amp**, **B+** M8, **Total length** 93.80, **Height/B+** 20.25, **Coil bolt** M8, **Coil bolt 2** 20.10, **No./terminals** 4
*Silver contact.*

**235817** Solenoid

24 **V**, 120 **Amp**, **OD** 92.00, **Total length** 134.00, **No./terminals** 4
*Universal.*

## Brush Gear Parts

Pkg. 4

**132711** Brush Spring

**Length** 27.25

Pkg. 4

**132712** Brush Spring

**Length** 34.00, **Height** 18.00, **Width** 6.10 mm
*12/24 V. 3 kW.*

## Brush Sets

**140408** Brush Set

12/24 **V**, **Length** 26.05, **Lead length** 37.50, **Height** 12.78, **Thickness** 8.92
*2 kW.*

**140410** Brush Set

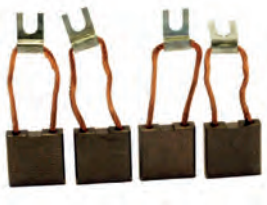
12/24 **V**, **Length** 27.96, **Lead length** 47.50, **Height** 19.86, **Thickness** 8.90
*3 kW.*

**140918** Brush Set

**Replacing:** 2137014038, 16.770.295

**Servicing:** 0136352005, 0136355049, 0136355050, 0136355057, 0136355058, 0136355059, 0136355060, 0136355061, 0136355064, 0136355065

24 **V**, **Length** 25.50, **Lead length** 32.00, **Height** 25.85, **Thickness** 8.90
*1.5/2.5 kW.*



**141068** Brush Set

24 **V**, **Length** 21.55, **Lead length** 36.00, **Height** 21.92, **Thickness** 5.95



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
[#]Available while stock last, * Program development.

**141193** Brush Set

24 **V**, **Length** 26.50, **Lead length** 55.00, **Height** 19.80, **Thickness** 9.95

## Bushings

Pkg. 10

**141064** Bushing

**ID** 14.13, **OD** 18.05, **Length** 13.39

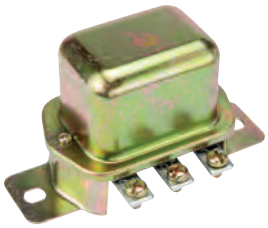


All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Regulators

### 14 V



**233625** Regulator

14 **V**, **Dist./mount. holes** 97.75,
**Regulator type** Mechanical,
**Terminal type** D-DF-D+

## Brush Sets

**130988** Brush Set

14 **V**, **Length** 25.00, **Lead length** 41.35,
**Height** 14.00, **Thickness** 8.00

**141266** Brush Set

12 **V**, **Length** 26.00, **Lead length** 38.00,
**Height** 13.50, **Thickness** 5.50



O.E.M. names and numbers are used for reference purposes only.

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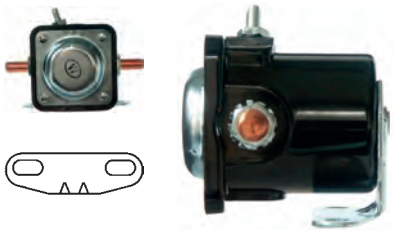
#Available while stock last, * Program development.

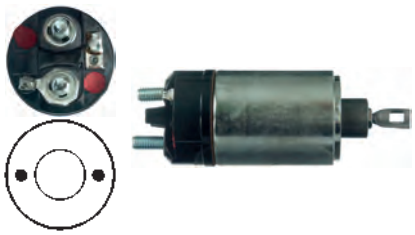
## Solenoids

### 6 V



**130503** Solenoid

6 **V**, 130 **Amp**, **B+** M8, **Kl. 50** M5, **OD** 43.00, **Total length** 63.35, **Height/B+** 19.00, **Width/kl. 50** 11.95, **Coil bolt** M8, **Coil bolt 2** 19.00, **No./terminals** 3
*Ground (buttom). Flat bearing bracket.*



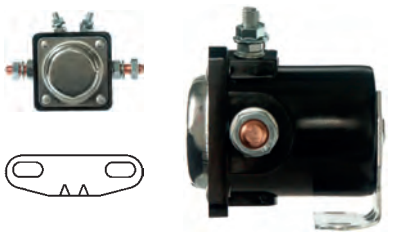
**135871** Solenoid

**Replacing:** 0331302513, 0331302013, 0331302005, 0331302004, 0331302001, 0-23500-0454

**Servicing:** 0001207001, 0001207003, 0001207005, 0001207009, 0001207014, 0001207015, 0001207016, 0001207017, 0001207018, 0001207019

6 **V**, **B+** M8, **Kl. 50** 6.30, **OD** 50.20, **OD/cover** 49.75, **Total length** 145.55, **Height/B+** 16.80, **Width/kl. 50** 12.20, **Coil bolt** M8, **Coil bolt 2** 13.00, **No./terminals** 3
*Cap: HC-CARGO 131335.*

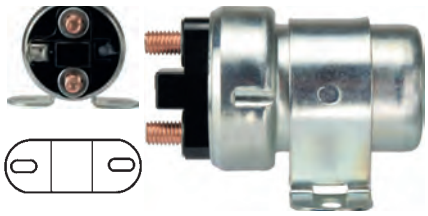
### 12 V



**130493** Solenoid

**Replacing:** SW03, D9AZ11450A, D2DZ11450A, C7AF11450A, BD7T11450T, BD-7T11450A, B6AZ11450A, 3225629, 2098360, SAS-4211Y, 15-407, F903

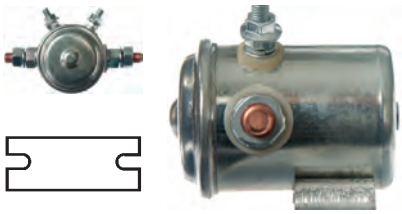
12 **V**, **Intermittent load** 150 Amp., **B+** 5/16" UNF, **Kl. 15a** M5, **Kl. 50** 10-32 UNF, **OD** 42.30, **Total length** 62.30, **Height/B+** 15.00, **Width/kl. 15a** 12,75, **Width/kl. 50** 10.50, **Coil bolt** 5/16" UNF, **Coil bolt 2** 15.00, **No./terminals** 4



**131080** Solenoid

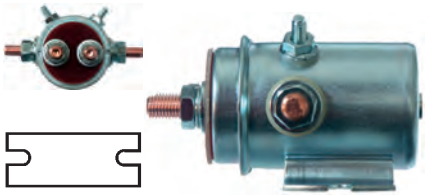
**Replacing:** 19024764

12 **V**, 50 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 39.70, **Total length** 86.40, **Height/B+** 12.25, **Width/kl. 50** 9.55, **Coil bolt** M8, **Coil bolt 2** 12.25, **Seconds** 5, **No./terminals** 3



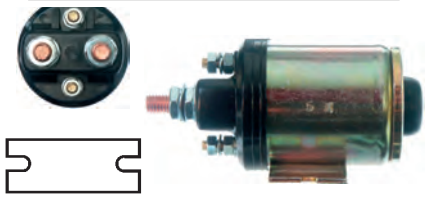
**132939** Solenoid

12 **V**, 80 **Amp**, **Intermittent load** 150 Amp., **B+** M8, **Kl. 50** M5, **OD** 41.85, **Total length** 64.50, **Height/B+** 20.65, **Width/kl. 50** 11.35, **Coil bolt** M8, **Coil bolt 2** 20.65, **Seconds** 5, **No./terminals** 4
*Insulated.*



**133616** Solenoid

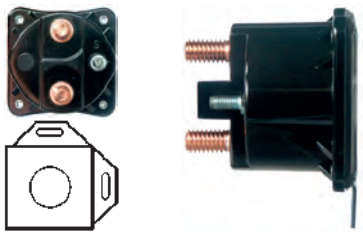
12 **V**, 80 **Amp**, **Intermittent load** 150 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 41.85, **Total length** 89.65, **Height/B+** 18.00, **Width/kl. 15a** 11.45, **Width/kl. 50** 11.45, **Coil bolt** M8, **Coil bolt 2** 10.00, **Seconds** 5, **No./terminals** 6
*Insulated return. Silver contact.*



**133695** Solenoid

**Replacing:** CEY113, 099845

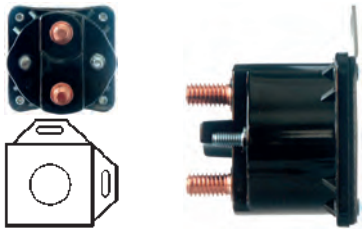
12 **V**, 100 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 47.70, **OD/cover** 52.35, **Total length** 105.55, **Height/B+** 18.85, **Width/kl. 15a** 13.90, **Width/kl. 50** 14.00, **Coil bolt** M8, **Coil bolt 2** 19.35, **Seconds** 5, **No./terminals** 4
*Universal.*



**133855** Solenoid

**Replacing:** SAZ-4201X, SAZ-4201R, SAZ-4201ENY, SAZ-4201ELY, SAZ-4201E, SAZ-4201CA, SAZ-4201BH, SAZ-4201BA

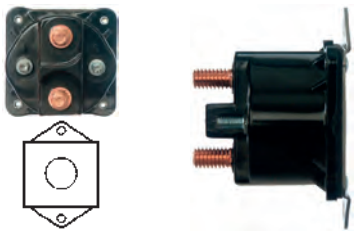
12 **V**, 100 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 50** M5, **OD/cover** 48.95, **Total length** 54.30, **Height/B+** 14.25, **Width/kl. 50** 9.70, **Coil bolt** M8, **Coil bolt 2** 14.10, **No./terminals** 3
*3.95-4.15 coil resistance.*



**133856** Solenoid

**Replacing:** SAZ-4201N, SAZ-4201EW, SAZ-4201DDY, SAZ-4201CPY, SAZ-4201CJ, SAZ-4201BW, SAZ-4201BU, SAZ-4201BR, SW1162

12 **V**, 100 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD/cover** 49.25, **Total length** 54.75, **Height/B+** 14.20, **Width/kl. 15a** 9.85, **Width/kl. 50** 9.95, **Coil bolt** M8, **Coil bolt 2** 14.20, **No./terminals** 4
*3.95-4.15 coil resistance.*



**133857** Solenoid

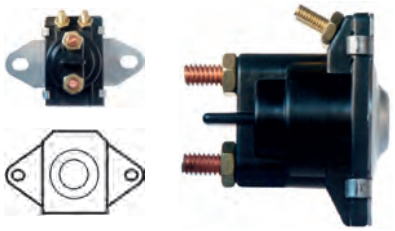
**Replacing:** SAZ-4201U, SAZ-4201EY, SAZ-4201BC, SAZ-4201AP, SAZ-4201AHY, 15-487, 15-400, 15-368, 15-351, 15-275

12 **V**, 100 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 50** M5, **OD/cover** 54.75, **Total length** 55.50, **Height/B+** 14.45, **Width/kl. 50** 9.80, **Coil bolt** M8, **Coil bolt 2** 14.30, **No./terminals** 4
*3.95-4.15 coil resistance.*



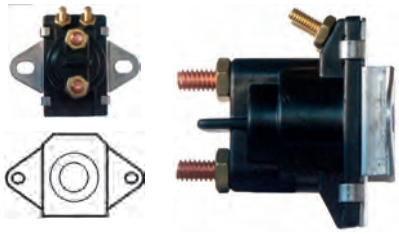
All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.



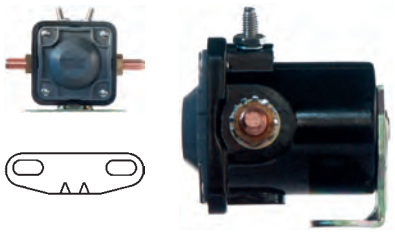
## 139856 Solenoid

12 **V**, **B+** M8, **Kl. 15a** M4, **Kl. 50** M4, **OD** 56.00, **Total length** 55.80, **Height/B+** 10.55, **Width/kl. 15a** 9.20, **Width/kl. 50** 9.75, **Coil bolt** M8, **Coil bolt 2** 10.40, **No./terminals** 4



## 139857 Solenoid

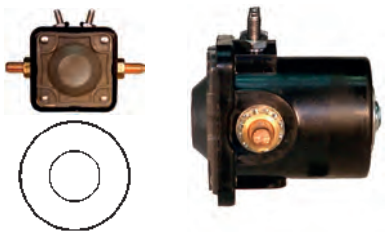
12 **V**, **B+** M8, **Kl. 15a** M4, **Kl. 50** M4, **OD** 55.90, **Total length** 55.45, **Height/B+** 10.70, **Width/kl. 15a** 9.65, **Width/kl. 50** 9.30, **Coil bolt** M8, **Coil bolt 2** 10.65, **No./terminals** 4



## 139858 Solenoid

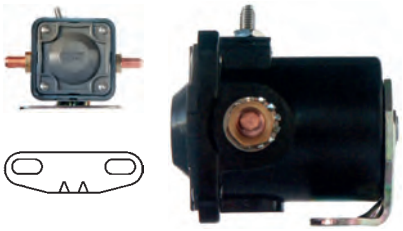
**Replacing:** 2095606, 1658883, SAZ4201J, 15-66, 15-5C, 15-288, 1114537, 1114206

12 **V**, 100 **Amp**, **Intermittent load** 600 Amp., **B+** M8, **Kl. 50** M5, **OD** 41.90, **Total length** 63.45, **Height/B+** 18.75, **Width/kl. 50** 12.75, **Coil bolt** M8, **Coil bolt 2** 18.55, **No./terminals** 4
*Insulated return.*



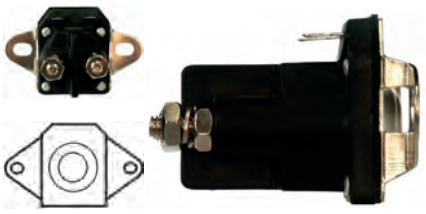
## 139859 Solenoid

12 **V**, **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 53.85, **Total length** 64.00, **Height/B+** 12.30, **Width/kl. 15a** 8.25, **Width/kl. 50** 8.50, **Coil bolt** M8, **Coil bolt 2** 12.15, **No./terminals** 4



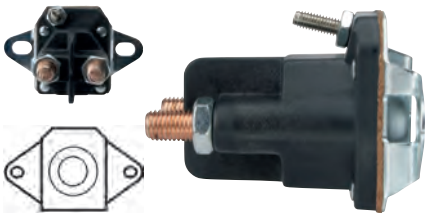
## 139860 Solenoid

12 **V**, **Kl. 50** M5, **OD** 54.00, **Total length** 64.20, **Height/B+** 13.25, **Width/kl. 50** 8.55, **Coil bolt 2** 13.55, **No./terminals** 3



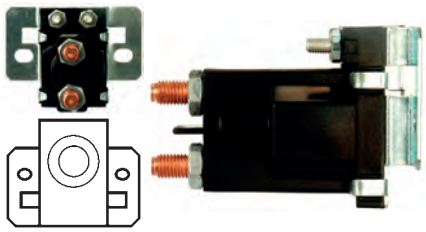
## 231525 Solenoid

12 **V**, 80 **Amp**, **B+** 1/4"-20, **Kl. 15a** 10-24 UNC, **Kl. 50** 10-24 UNC, **Total length** 66.45, **Height/B+** 18.00, **Coil bolt** 1/4"-20, **Coil bolt 2** 18.00, **No./terminals** 4
*Insulated return.*



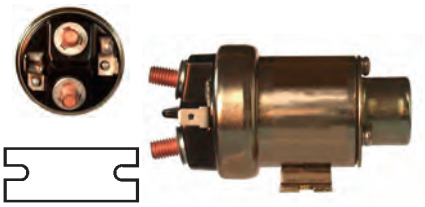
## 231526 Solenoid

12 **V**, 80 **Amp**, **B+** 5/16-24, **Kl. 50** M4, **OD** 55.85, **Total length** 55.15, **Height/B+** 9.50, **Width/kl. 50** 10.20, **Coil bolt** 5/16"-24, **Coil bolt 2** 9.50, **No./terminals** 3
*Relay w/ 1/4" B+: HC-CARGO 234070.*



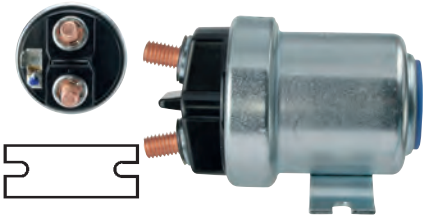
## 231527 Solenoid

12 **V**, 80 **Amp**, **B+** 5/16-24, **Kl. 15a** M5, **Kl. 50** M5, **OD** 54.20, **Total length** 77.65, **Height/B+** 11.55, **Width/kl. 15a** 7.00, **Width/kl. 50** 6.90, **Coil bolt** 5/16"-24, **Coil bolt 2** 11.45, **No./terminals** 4



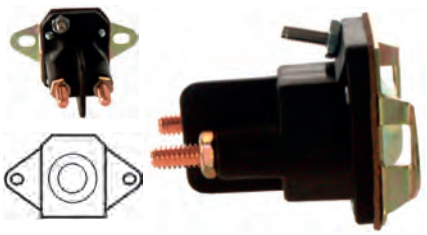
## 231807 Solenoid

12 **V**, 200 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 45.00, **OD/cover** 47.55, **Total length** 105.00, **Height/B+** 11.85, **Width/kl. 15a** 11.30, **Width/kl. 50** 11.75, **Coil bolt** M8, **Coil bolt 2** 11.90, **Seconds** 5, **No./terminals** 4



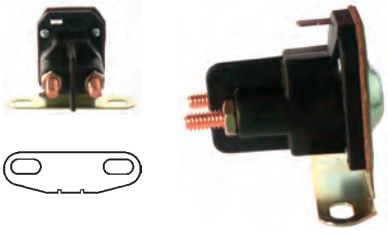
## 231809 Solenoid

12 **V**, 200 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 45.00, **OD/cover** 47.30, **Total length** 104.65, **Height/B+** 11.20, **Width/kl. 50** 11.60, **Coil bolt** M8, **Coil bolt 2** 11.50, **Seconds** 5, **No./terminals** 3



## 234070 Solenoid

12 **V**, 80 **Amp**, **B+** 1/4"-20, **Kl. 50** M5, **Total length** 66.40, **Height/B+** 17.00, **Width/kl. 50** 15.95, **Coil bolt** 1/4"-20, **Coil bolt 2** 17.00, **No./terminals** 3
*Relay w/ 5/16" B+: HC-CARGO 231526.*



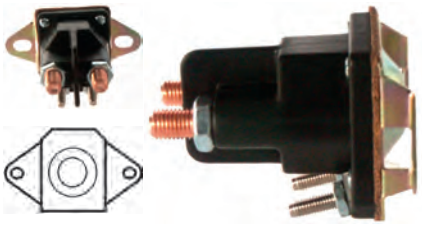
## 234071 Solenoid

12 **V**, 80 **Amp**, **B+** 5/16-24, **Kl. 50** 6.30, **Total length** 64.25, **Height/B+** 16.70, **Width/kl. 50** 11.15, **Coil bolt** 5/16"-24, **Coil bolt 2** 16.70, **No./terminals** 3



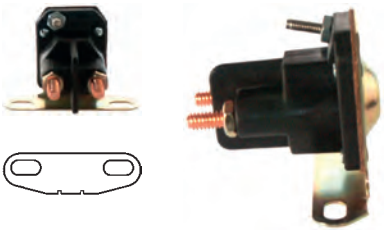
O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



## 234072 Solenoid

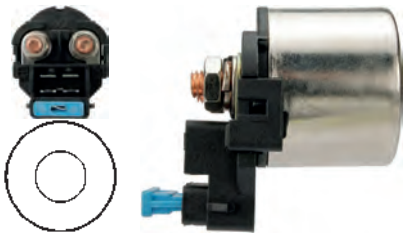
12 **V**, 80 **Amp**, **B+** 5/16-24, **Kl. 15a** M5, **Kl. 50** M5, **Total length** 66.50, **Height/B+** 16.90, **Width/kl. 15a** 15.30, **Width/kl. 50** 15.30, **Coil bolt** 5/16"-24, **Coil bolt 2** 16.90, **No./terminals** 4
*Insulated return.*



## 234073 Solenoid

12 **V**, 80 **Amp**, **B+** 1/4"-20, **Kl. 15a** 10-24 UNC, **Kl. 50** M5, **Total length** 64.15, **Height/B+** 16.85, **Width/kl. 50** 16.25, **Coil bolt** 1/4"-20, **Coil bolt 2** 16.85, **No./terminals** 3

Pkg. 10

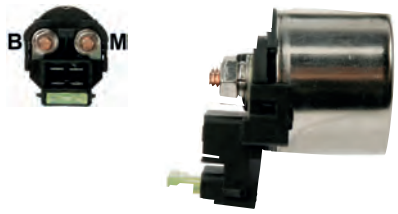


## 234860 Solenoid

**Replacing:** ZM-101
**Servicing:** HONDA MC
12 **V**, **OD** 34.00, **Total length** 43.00, **No./terminals** 6
*15 A fuse.*

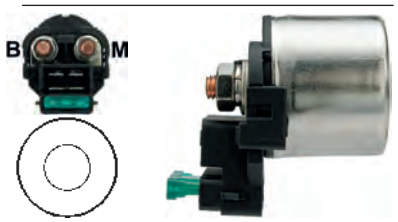
## 235442 Solenoid

**Replacing:** 1114218, 1114208
12 **V**, 150 **Amp**, **Intermittent load** 300 Amp., **B+** M8, **OD** 41.04, **Total length** 65.86, **Height/B+** 14.45, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*



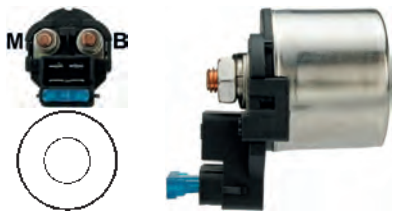

## 235593 Solenoid

**Replacing:** ZM-102, 235593
12 **V**, **B+** M6, **Kl. 15a** M6, **Kl. 50** Plug, **OD** 46.82, **OD/cover** 46.82, **Total length** 51.20, **Height/B+** 45.00, **Width/kl. 15a** 15.00, **Width/kl. 50** 30.00
*20 A fuses.*



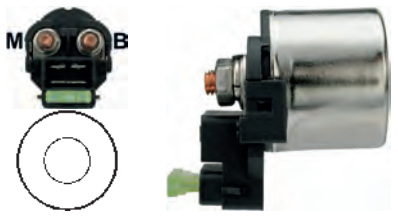

## 235594 Solenoid

12 **V**, **B+** M6, **OD** 34.00, **Total length** 43.00, **Coil bolt** M6
*30 A fuses.*




## 235595 Solenoid

12 **V**, **OD** 34.00, **Total length** 43.00
*15 A fuse.*

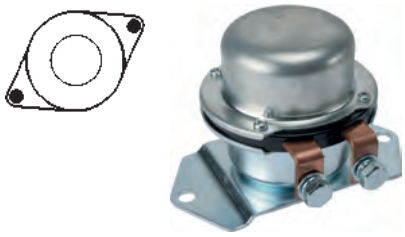



## 235596 Solenoid

12 **V**, **B+** M6, **OD** 34.00, **Total length** 43.00, **Coil bolt** M6
*20 A fuses.*

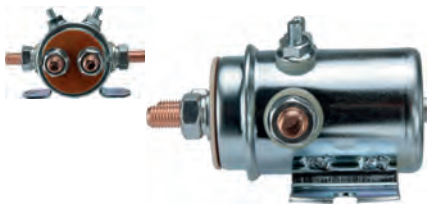
## 333001 Solenoid

12 **V**, **B+** Bolt, **Kl. 50** M4, **OD** 52.20, **Total length** 113.30, **Height/B+** M8x1.25, **Coil bolt** 22.60, **Coil bolt 2** 16.60, **No./terminals** 3



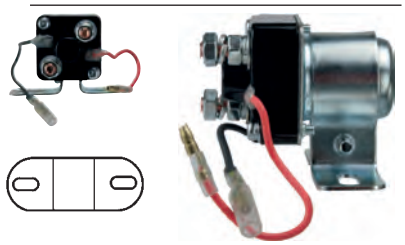
## 333003 Solenoid

**Replacing:** 153400-4401
**Servicing:** 228000-6450
12 **V**, **B+** M8, **OD** 132.00, **Total length** 86.00, **No./terminals** 3



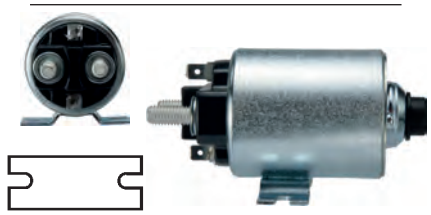
## 333004 Solenoid

12 **V**, 150 **Amp**, **Intermittent load** 300 Amp., **Total length** 79.60, **No./terminals** 6
*Coil resistance 8.5 Ohms. N.C. contact: 60/60 A.*



## 333006 Solenoid

12 **V**, **Intermittent load** 120 Amp., **OD** 80.00, **Total length** 65.00, **No./terminals** 4



## 333009 Solenoid

12 **V**, 150 **Amp**, **B+** M8, **OD** 52.20, **Total length** 109.40, **Height/B+** 11.90, **Coil bolt** M8, **Coil bolt 2** 11.90, **No./terminals** 4

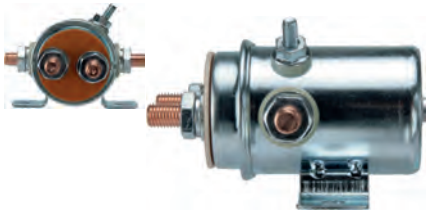


All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

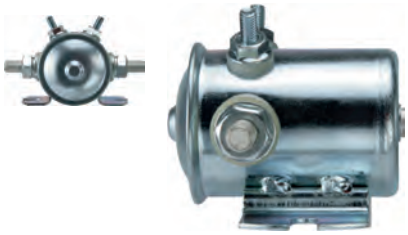
## 333010 Solenoid

12 **V**, **OD** 67.40, **Total length** 51.10, **No./terminals** 3



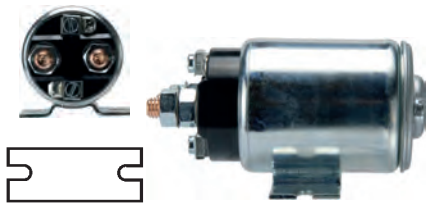
## 333012 Solenoid

12 **V**, 150 **Amp**, **Intermittent load** 300 Amp., **Total length** 88.20, **No./terminals** 5
*Coil resistance 8.5 Ohms. N.C. contact: 60/60 A.*



## 333020 Solenoid

12 **V**, **Total length** 65.80, **No./terminals** 4



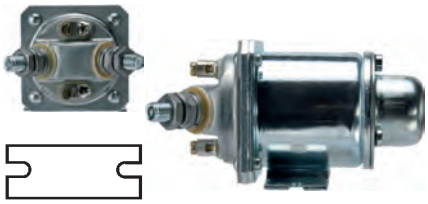
## 333153 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0333009004, 19024761

12 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.75, **OD/cover** 44.00, **Total length** 100.15, **Height/B+** 17.75, **Coil bolt** M8, **Coil bolt 2** 17.75, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*

**Alternative no.:** 131373, 131373Z



## 333160 5★ Solenoid

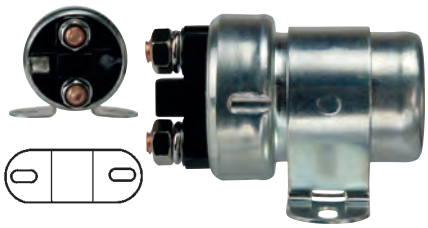
**Manufacturer:** Bosch

**Replacing:** 0333006005, 0333006004, ARD1133, 11.250.142, 11.250.121

12 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 52.10, **OD/cover** 45.20, **Total length** 101.75, **Height/B+** 17.50, **Width/kl. 50** 10.65, **Coil bolt** M8, **Coil bolt 2** 17.50, **Seconds** 5, **No./terminals** 4
*Water proof. Silver contact. Insulated return.*

**Alternative no.:** 131370

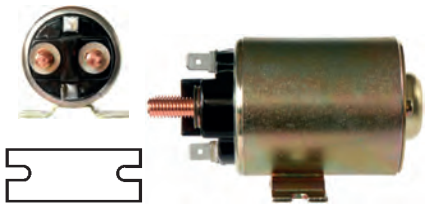
### 24 V



## 130492 Solenoid

**Replacing:** 19024765

24 **V**, 50 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 50** 6.30, **OD** 40.00, **Total length** 85.00, **Height/B+** 11.30, **Width/kl. 50** 10.50, **Coil bolt** M8, **Coil bolt 2** 11.30, **Seconds** 5, **No./terminals** 3



## 131371 Solenoid

**Replacing:** 0333006006, 0333006002, 19024759

**Servicing:** 0333006006

24 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **OD** 51.70, **OD/cover** 43.45, **Total length** 99.60, **Height/B+** 17.35, **Coil bolt** M8, **Coil bolt 2** 17.35, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*

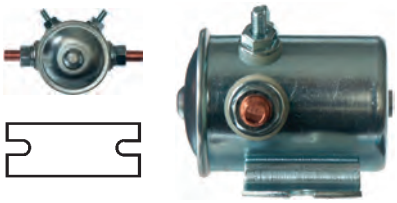
**Alternative no.:** 333156 5★

## 131372Z Solenoid

**Replacing:** 0333009013, 0333009002, 19024760

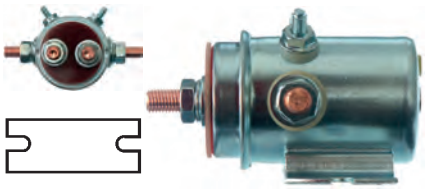
24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 52.01, **OD/cover** 50.22, **Total length** 102.48, **Height/B+** 17.91, **Coil bolt** 4.00, **Seconds** 5, **No./terminals** 4
*Silver contact.*

**Alternative no.:** 333152 5★



## 132940 Solenoid

24 **V**, 60 **Amp**, **Intermittent load** 100 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 42.00, **Total length** 66.35, **Height/B+** 20.40, **Width/kl. 15a** 12.50, **Width/kl. 50** 12.50, **Coil bolt** M8, **Coil bolt 2** 20.40, **Seconds** 5, **No./terminals** 4
*Insulated.*



## 133617 Solenoid

24 **V**, 50 **Amp**, **Intermittent load** 50 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 41.70, **Total length** 88.85, **Height/B+** 17.30, **Width/kl. 15a** 10.75, **Width/kl. 50** 10.75, **Coil bolt** M8, **Coil bolt 2** 17.30, **Seconds** 5, **No./terminals** 6
*Insulated return.*

## 133697 Solenoid

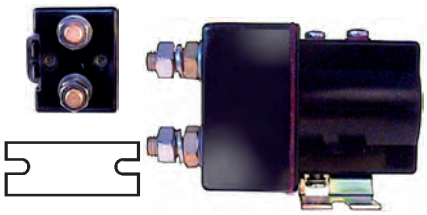
**Replacing:** CEZ113, 098932

24 **V**, 100 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **Kl. 15a** M5, **Kl. 50** M5, **OD** 47.65, **OD/cover** 52.35, **Total length** 106.25, **Height/B+** 19.00, **Width/kl. 15a** 13.85, **Width/kl. 50** 14.30, **Coil bolt** M8, **Coil bolt 2** 19.00, **Seconds** 5, **No./terminals** 4
*Universal.*



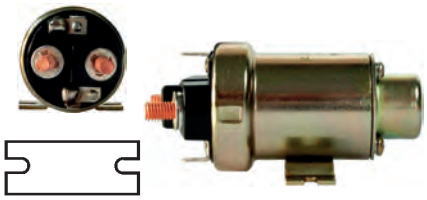
O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



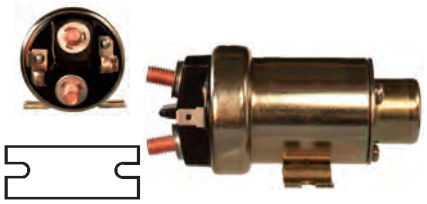
**138685** Solenoid

24 **V**, 100 **Amp**, **B+** M8,
**Total length** 93.80, **Height/B+** 20.25,
**Coil bolt** M8, **Coil bolt 2** 20.10,
**No./terminals** 4
*Silver contact.*



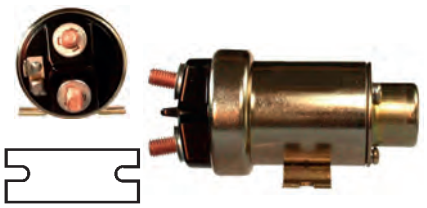
**230964** Solenoid

24 **V**, 200 **Amp**, **Intermittent load** 800 Amp.,
**B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 44.90,
**OD/cover** 47.45, **Total length** 115.50,
**Height/B+** 12.25, **Width/kl. 15a** 12.65,
**Width/kl. 50** 11.70, **Coil bolt** M8,
**Coil bolt 2** 12.00, **Seconds** 5, **No./terminals** 4



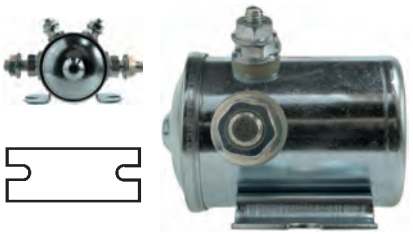
**231808** Solenoid

24 **V**, 200 **Amp**, **Intermittent load** 800 Amp.,
**B+** M8, **Kl. 50** 6.30, **OD** 45.15,
**Total length** 114.90, **Height/B+** 11.20,
**Width/kl. 50** 11.75, **Coil bolt** M8,
**Coil bolt 2** 11.20, **Seconds** 5,
**No./terminals** 4



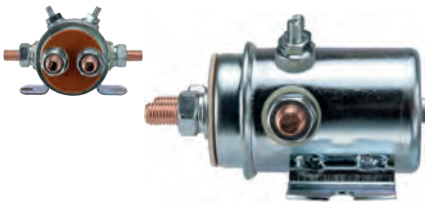
**231810** Solenoid

24 **V**, 200 **Amp**, **Intermittent load** 800 Amp.,
**B+** M8, **Kl. 50** 6.30, **OD** 44.90,
**OD/cover** 47.45, **Total length** 114.55,
**Height/B+** 11.10, **Width/kl. 50** 11.55,
**Coil bolt** M8, **Coil bolt 2** 11.40,
**Seconds** 5, **No./terminals** 3



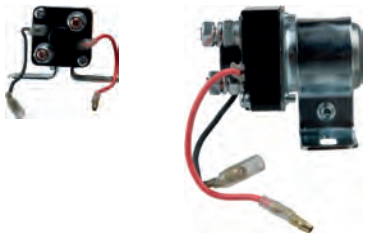
**235443** Solenoid

24 **V**, 100 **Amp**, **Intermittent load** 200 Amp.,
**Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*



**333005** Solenoid

24 **V**, 75 **Amp**, **Intermittent load** 150 Amp.,
**Total length** 79.60, **No./terminals** 6
*Coil resistance 16 Ohms. N.C. contact: 60/60 A.*

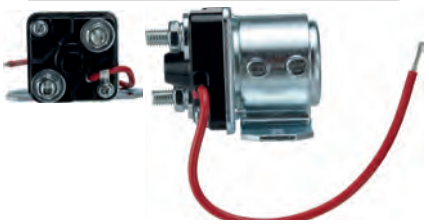


**333007** Solenoid

24 **V**, **OD** 67.60, **Total length** 65.00,
**No./terminals** 4

**333008** Solenoid

24 **V**, 150 **Amp**, **B+** M8, **Kl. 50** 6.30,
**OD** 54.00, **Total length** 109.40,
**Height/B+** 15.00, **Width/kl. 50** 60.00,
**No./terminals** 4

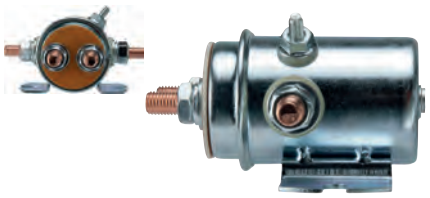


**333011** Solenoid

24 **V**, **OD** 67.40, **Total length** 51.10,
**No./terminals** 3

**333013** Solenoid

24 **V**, **Intermittent load** 1000 Amp.,
**B+** M8, **OD** 90.00, **Total length** 133.00,
**No./terminals** 4

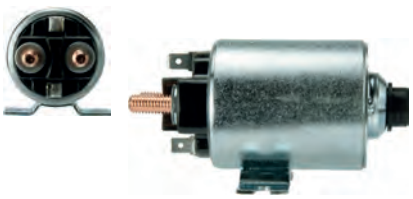


**333015** Solenoid

24 **V**, 50 **Amp**, **Intermittent load** 50 Amp.,
**Total length** 86.70, **No./terminals** 5
*Coil resistance 60 Ohms. N.C. contact: 30/30 A.*

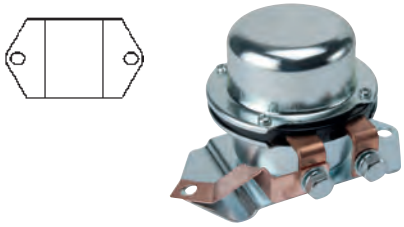
**333016** Solenoid

24 **V**, 35 **Amp**, **Intermittent load** 1 Amp.,
**Total length** 94,00, **Seconds** 0.1,
**No./terminals** 4



**333017** Solenoid

24 **V**, 100 **Amp**, **B+** M8, **Kl. 15a** 6.30,
**Kl. 50** 6.30, **OD** 52.07,
**Total length** 109.40, **Height/B+** 15.00,
**Width/kl. 15a** 30.00, **No./terminals** 4



**333018** Solenoid

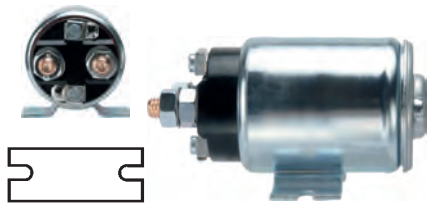
24 **V**, 100 **Amp**, **Kl. 50** M4,
**Total length** 87.00, **Height/B+** M8x1.25,
**Coil bolt** M8x1.25, **No./terminals** 3



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.



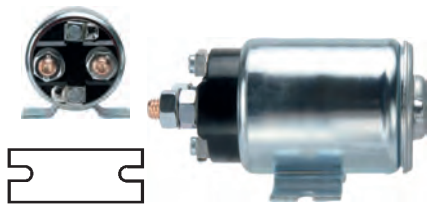
**333152** 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0333009013, 0333009002, 0333006012

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.50, **OD/cover** 43.55, **Total length** 100.55, **Height/B+** 17.85, **Coil bolt** M8, **Coil bolt 2** 17.85, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*

**Alternative no.:** 131372



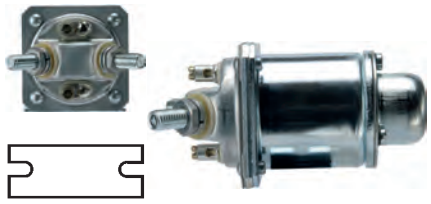
**333152** 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 19024760

24 **V**, 150 **Amp**, **Intermittent load** 800 Amp., **B+** M8, **OD** 51.50, **OD/cover** 43.55, **Total length** 100.55, **Height/B+** 17.85, **Coil bolt** M8, **Coil bolt 2** 17.85, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*

**Alternative no.:** 131372



**333156** 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0333006006, 0333006002, 19024759

24 **V**, 80 **Amp**, **Intermittent load** 500 Amp., **B+** M8, **OD** 51.70, **OD/cover** 43.45, **Total length** 99.60, **Height/B+** 17.35, **Coil bolt** M8, **Coil bolt 2** 17.35, **Seconds** 5, **No./terminals** 4
*Silver contact. Insulated return.*

**Alternative no.:** 131371

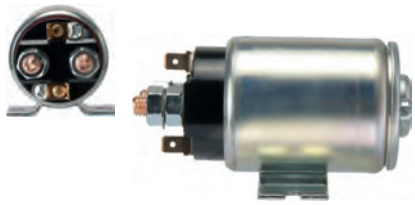
**333484** 5★ Solenoid

**Manufacturer:** Bosch

**Replacing:** 0333009005

24 **V**, 150 **Amp**, **B+** M8, **OD** 49.50, **OD/cover** 42.20, **Total length** 101.30, **Coil bolt** M8, **No./terminals** 4

**Alternative no.:** 333623



**333531** 5★ Solenoid

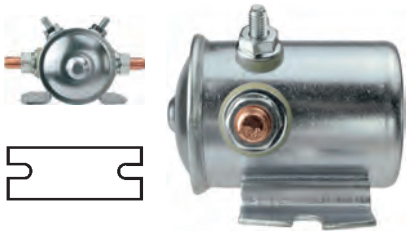
**Manufacturer:** Bosch

**Replacing:** 0333009011

24 **V**, 150 **Amp**, **B+** M8, **Kl. 15a** 6.30, **Kl. 50** 6.30, **OD** 50.00, **Total length** 100.00, **Height/B+** 15.00, **Width/kl. 15a** 60.00, **Width/kl. 50** 30.00, **No./terminals** 4

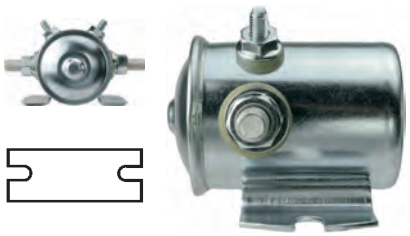
**Alternative no.:** 333622

## 36 V



**235646** Solenoid

36 **V**, 50 **Amp**, **Intermittent load** 100 Amp., **B+** M8, **OD** 41.80, **Total length** 66.80, **Seconds** 5, **No./terminals** 4
*Insulated return.*



**235647** Solenoid

36 **V**, 60 **Amp**, **Intermittent load** 150 Amp., **Seconds** 5, **No./terminals** 4
*Insulated return.*

## Brush Sets

Pkg. 10

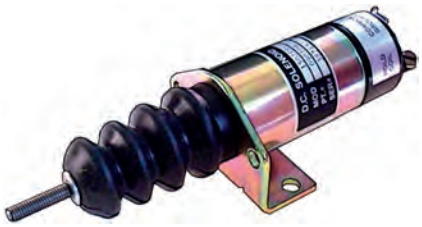
**140164** Brush

**Servicing:** Bosch, Webasto

10-100 **V**, **Length** 19.50, **Lead length** 35.50, **Height** 9.93, **Thickness** 7.94

## Solenoid Shutdown

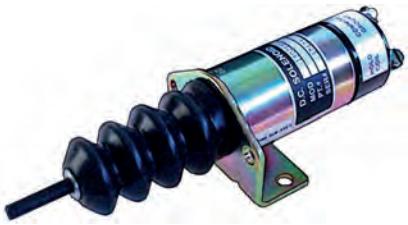
### Externally Switched



**090109** Shutdown Solenoid

**Replacing:** 1502ES12C3U1B2S1

12 **V**, 0.70 **Amp/hold**, 30 **Amp/pull**, **Thread size** 6.00, **Hold rating** 89N, **Pull rating** 40N at 25.4 mm, **Return spring** 9N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Function** Pull, **Switch** External, **Plunger** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*



**090110** Shutdown Solenoid

**Replacing:** 1502ES24C3U1B2S2

24 **V**, 0.25 **Amp/hold**, 17 **Amp/pull**, **Thread size** 6.00, **Hold rating** 89N, **Pull rating** 40N at 25.4 mm, **Return spring** 9N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Function** Pull, **Switch** External, **Plunger** External
*Denne stopspole kan ikke selv afbryde og skal derfor styres af en ekstern timer.*
*Supplied with 2 plungers ¼" and M6 thread*
*Thread: ¼" and M6*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 090111 Shutdown Solenoid

**Replacing:** SA-5174-12, 2001ES12E3U1B2S2

12 **V**, 0.60 **Amp/hold**, 44 **Amp/pull**, **Thread size** 1/4", **Hold rating** 178N, **Pull rating** 75N at 25.4 mm, **Return spring** 35N, **Mount. type** Flange/bracket, **Thread type** Inches, **Elect. connection** Plug, **Function** Pull, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090113 Shutdown Solenoid

**Replacing:** SA-5174-24, 2001ES24E3U1B2S2

24 **V**, 0.30 **Amp/hold**, 23 **Amp/pull**, **Thread size** 6.00, **Hold rating** 178N, **Pull rating** 75N at 25.4 mm, **Return spring** 35N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Function** Pull, **Switch** External, **Plunger** External, **Aux terminal** Yes

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090199 Shutdown Solenoid

**Replacing:** SA-4180-12

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Thread size** 6.00, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Return spring** 17N, **Mount. type** Flat w/ 2 fixing holes, **Thread type** mm, **Elect. connection** Cable, **Function** Pull/Push, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090200 Shutdown Solenoid

**Replacing:** SA-4182-24

24 **V**, 4 **Amp/hold**, 18 **Amp/pull**, **Thread size** 6.00, **Hold rating** 178N, **Pull rating** 67N at 25.4 mm, **Return spring** 17N, **Thread type** mm, **Elect. connection** Cable, **Function** Pull/Push, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090206 Shutdown Solenoid

**Replacing:** SA-4920-12, SA-4817-12, SA-4564-12

**Servicing:** Yanmar Diesel

12 **V**, 0.49 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.158, **Thread type** Inches, **Switch** External, **Plunger** Internal

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090216 Shutdown Solenoid

**Replacing:** SA-4569-T, SA-3776T, 1503ES12A5UC5S

**Servicing:** Kubota

12 **V**, 0.70 **Amp/hold**, 30 **Amp/pull**, **Hold rating** 85N, **Pull rating** 44N at 25.4mm, **Return spring** 17N, **Mount. type** Flange, **Elect. connection** Multiplug, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090225 Shutdown Solenoid

**Replacing:** SA-4934-12

**Servicing:** Perkins

12 **V**, 0.49 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.25, **Thread type** Inches, **Switch** External, **Plunger** Internal

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090226 Shutdown Solenoid

**Replacing:** SA-4228

24 **V**, 24 **V 2,** 0.50 **Amp/hold**, 25 **Amp/pull**, **Thread size** 6.00, **Hold rating** 182N, **Pull rating** 111N at 25.4 mm, **Return spring** 7N, **Thread type** mm, **Elect. connection** Multiplug, **Function** Pull, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

## 090228 Shutdown Solenoid

**Replacing:** SA-4921, SA-4850, SA-4562T, 1503ES12S5UC5S, 1503ES12S5SUC5S

**Servicing:** Yanmar Motors

12 **V**, 0.49 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.158, **Thread type** Inches, **Switch** External, **Plunger** Internal

*This solenoid can´t switch off by itself, it will have to be controlled externally.*



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

**090281** Shutdown Solenoid

**Replacing:** SA-4527

**Servicing:** Volvo

24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Thread size** 6.00, **Hold rating** 236N, **Pull rating** 89N at 25.4 mm, **Mount. type** Bracket, **Thread type** mm, **Elect. connection** Multiplug, **Function** Pull/Push, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

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**090348** Shutdown Solenoid

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Thread size** 6.00, **Hold rating** 182N, **Pull rating** 111N at 25.4 mm, **Return spring** 4-8N, **Mount. type** Flat w/ 2 fixing holes, **Thread type** mm, **Elect. connection** Cable, **Function** Pull, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

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**090370** Shutdown Solenoid

**Replacing:** SA-4899-12

**Servicing:** Kubota D722, Z482

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Thread size** 1/4 - 28 UNF-2A, **Hold rating** 182N, **Pull rating** 111N, **Mount. type** Flat w/ 2 fixing holes, **Elect. connection** Cable, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

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**090371** Shutdown Solenoid

**Replacing:** SA-4899-24

**Servicing:** Kubota D722, Z482

24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Thread size** 1/4 - 28 UNF-2A, **Hold rating** 182N, **Pull rating** 111N, **Elect. connection** Cable, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

---

**090373** Shutdown Solenoid

**Replacing:** SA-4561T, 1503ES12A5UC9S

12 **V**, 0.972 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.154, **Thread type** Inches, **Switch** External, **Plunger** External

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

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**090431** Shutdown Solenoid

**Replacing:** 2300-1505

24 **V**, 24 **V 2,** 0.57 **Amp/hold**, 30 **Amp/pull**, **Thread size** 5/16", **Hold rating** 391N, **Pull rating** 165N, **Return spring** 80-115N, **Mount. type** Flange/bracket, **Thread type** Inches, **Function** Pull, **Switch** External, **Plunger** External, Insulated return

*This solenoid can´t switch off by itself, it will have to be controlled externally.*

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## Internally Switched

**090160** Shutdown Solenoid

**Replacing:** SA-5171, 150212C3U1B1S1A

12 **V**, 0.70 **Amp/hold**, 30 **Amp/pull**, **Thread size** 6.00, **Hold rating** 89N, **Pull rating** 40N at 25.4 mm, **Return spring** 17N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Switch** Internal, **Plunger** External

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

---

**090161** Shutdown Solenoid

**Replacing:** 150224C3U1B1S2A

24 **V**, 0.25 **Amp/hold**, 17 **Amp/pull**, **Thread size** 6.00, **Hold rating** 89N, **Pull rating** 40N at 25.4 mm, **Return spring** 17N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Function** Pull, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

---

**090168** Shutdown Solenoid

**Replacing:** 200112E3U1B2S2

12 **V**, 0.60 **Amp/hold**, 44 **Amp/pull**, **Thread size** 6.00, **Hold rating** 178N, **Pull rating** 75N at 25.4 mm, **Return spring** 35N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Switch** Internal, **Plunger** External

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

---



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## 090169 Shutdown Solenoid

**Replacing:** 200124E3U1B2S2

24 **V**, 0.30 **Amp/hold**, 23 **Amp/pull**, **Thread size** 6.00, **Hold rating** 178N, **Pull rating** 75N at 25.4 mm, **Return spring** 35N, **Mount. type** Flange/bracket, **Thread type** mm, **Elect. connection** Plug, **Function** Pull, **Switch** Internal, **Plunger** External, **Aux terminal** Yes

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090210 Shutdown Solenoid

**Replacing:** 1751-12A3U1B1S1A

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Thread size** 1/4"-28 stud., **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Return spring** 9N, **Mount. type** Flange/bracket, **Thread type** Inches, **Elect. connection** Plug, **Function** Pull, **Switch** Internal, **Plunger** Internal, **Aux terminal** Yes

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090224 Shutdown Solenoid

**Replacing:** SA3405T, 150212C7U2B2S7

12 **V**, 0.25 **Amp/hold**, 17 **Amp/pull**, **Thread size** 6.00, **Hold rating** 89N, **Pull rating** 40N at 25.4 mm, **Return spring** 17N, **Thread type** mm, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090268 Shutdown Solenoid

**Replacing:** SA-5157, SA-5019, SA-4668-S, 1503ES-12A5SUC9SCG28, 1503ES-12A5SUC-9SCC28

**Servicing:** Kubota 5 series

12 **V**, 0.49 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.155, **Thread type** Inches, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090297 Shutdown Solenoid

**Replacing:** 175124A2U1BS1A, 1751 24A2U-1BS1A

24 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Thread size** 6.00, **Hold rating** 169N, **Pull rating** 107N at 25.4 mm, **Return spring** 7-11N, **Thread type** mm, **Switch** Internal, **Plunger** External, **Aux terminal** No

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090317 Shutdown Solenoid

24 **V**, 0.30 **Amp/hold**, 20 **Amp/pull**, **Hold rating** 245N, **Pull rating** 98N at 32.00 mm, **Return spring** 45N, **Switch** Internal, **Plunger** Internal, **Coil commander** w/

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090318 Shutdown Solenoid

12 **V**, 0.65 **Amp/hold**, 37 **Amp/pull**, **Hold rating** 245N, **Pull rating** 98N at 32.00 mm, **Return spring** 45N, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090334 Shutdown Solenoid

**Replacing:** SA-3991-12

**Servicing:** Sisu Diesel 8366 40253

12 **V**, 1.10 **Amp/hold**, 46.5 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090402 Shutdown Solenoid

**Replacing:** SA-4567T, 1503ES24A5UC5S

**Servicing:** Kubota super 5 series

24 **V**, 0.59 **Amp/hold**, 19.6 **Amp/pull**, **Thread size** 0.154, **Thread type** Inches, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## 090430 Shutdown Solenoid

**Servicing:** Kubota

12 **V**, 0.49 **Amp/hold**, 36.5 **Amp/pull**, **Thread size** 0.158, **Thread type** Inches, **Switch** Internal, **Plunger** Internal

*This solenoid can switch off the pull coil, and no external 'control' is necessary.*



All measurements are in mm, unless else stated.
# Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Kits

### Externally Switched

**090095** Solenoid Shutdown Kit

**Replacing:** SA-3742-12

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Left, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090096** Solenoid Shutdown Kit

**Replacing:** SA-3799-12

12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Right, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090099** Solenoid Shutdown Kit

**Replacing:** SA-3742-24

24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Left, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090100** Solenoid Shutdown Kit

**Replacing:** SA-3799-24

24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Right, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090103** Solenoid Shutdown Kit

**Replacing:** SA-4014-12

**Servicing:** Nippodenso, Zexel

12 **V**, 1.10 **Amp/hold**, 55 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Left, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090104** Solenoid Shutdown Kit

**Replacing:** SA-3999-12

**Servicing:** Nippodenso, Zexel

12 **V**, 1.10 **Amp/hold**, 55 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Right, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090105** Solenoid Shutdown Kit

**Replacing:** SA-4014-24

**Servicing:** Nippodenso, Zexel

24 **V**, 0.63 **Amp/hold**, 29 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Left, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090106** Solenoid Shutdown Kit

**Replacing:** SA-3999-24

**Servicing:** Nippodenso, Zexel

24 **V**, 0.63 **Amp/hold**, 29 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Right, **Elect. connection** Cable, **Function** Pull, **Switch** External
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090107** Solenoid Shutdown Kit

**Replacing:** SA-4026-12

12 **V**, 1.10 **Amp/hold**, 55 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Left, **Switch** External, **Elect. connection** Multiplug, **Function** Pull
*This solenoid can´t switch off by itself, it will have to be controlled externally.*

**090108** Solenoid Shutdown Kit

**Replacing:** SA-4026-24

24 **V**, 0.63 **Amp/hold**, 29 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Left, **Switch** External **Elect. connection** Multiplug, **Function** Pull
*This solenoid can´t switch off by itself, it will have to be controlled externally.*



O.E.M. names and numbers are used for reference purposes only.

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

## Internally Switched

**090097** Solenoid Shutdown Kit
**Replacing:** SA-3765-12
12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. type** Flange/bracket, **Mount. side** Left, **Elect. connection** Plug, **Function** Pull, **Switch** Internal
*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090098** Solenoid Shutdown Kit
**Replacing:** SA-3800-12
12 **V**, 1.10 **Amp/hold**, 46 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Right, **Elect. connection** Plug, **Function** Pull, **Switch** Internal
*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090101** Solenoid Shutdown Kit
**Replacing:** SA-3765-24
24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Mount. side** Left, **Elect. connection** Plug, **Function** Pull, **Switch** Internal
*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

**090102** Solenoid Shutdown Kit
**Replacing:** SA-3800-24
24 **V**, 0.50 **Amp/hold**, 25 **Amp/pull**, **Hold rating** 178N, **Pull rating** 89N at 25.4 mm, **Elect. connection** Plug, **Function** Pull, **Switch** Internal
*This solenoid can switch off the pull coil, and no external 'control' is necessary.*

## Pull Coil Timers

**090115** Pull Coil Timer
**Replacing:** 090115
12 **V**, **No./wires** 3

**090116** Pull Coil Timer
**Replacing:** SA-4092-24
24 **V**, **No./wires** 3

## Sundry Parts

### Various

Pkg. 10

**133370** Terminal Lead
**Servicing:** M8
**ID** 8.45, **Lead length** 107.55

Pkg. 10

**133371** Terminal Lead
**Servicing:** M8
**ID** 8.45, **Lead length** 106.45

Pkg. 10

**133372** Terminal Lead
**ID** 8.45, **Lead length** 106.75
*M8.*

Pkg. 10

**133390** Terminal Lead
**Servicing:** M8
**ID** 8.50, **Lead length** 60.00

Pkg. 10

**133505** Terminal Lead
**ID** 8.40, **Lead length** 39.50
*M8.*

Pkg. 10

**133506** Terminal Lead
**ID** 8.50, **Lead length** 52.65
*M8.*



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#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

Pkg. 10

**134064** Terminal Lead
**ID** 8.40, **Lead length** 53.00
*M8.*

Pkg. 10

**134921** Terminal Lead
**ID** 10.35, **Lead length** 68.20
*M10.*

Pkg. 50

**135203** Terminal
**Servicing:** M8

Pkg. 10

**136766** Terminal Lead
**ID** 8.45, **Lead length** 67.25
*M8.*

**140398** Brush Leader
**Length** 1000.00, **Thickness** 2.50

**140399** Brush Leader
**Length** 1000.00, **Thickness** 6.00

**140400** Brush Leader
**Length** 1000.00, **Thickness** 10.00

**140704** Brush Leader
**Length** 1000.00, **Thickness** 16.00

Pkg. 10

**230793** Terminal Lead
**ID** 8.50, **Lead length** 106.80
*M8.*



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#Available while stock last, * Program development.

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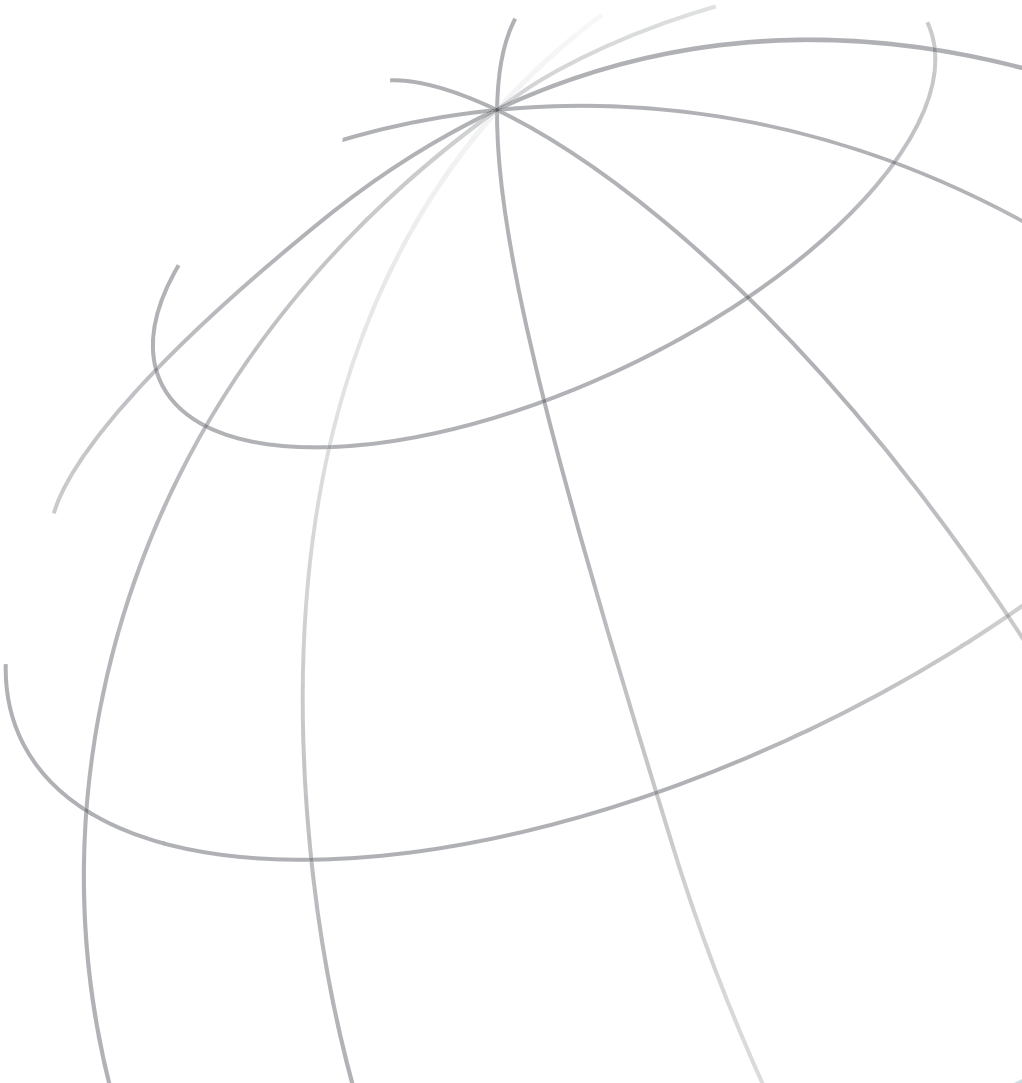
#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

# Survey

## Bushings



**Edition 2017-2019**

ISD 9001
BUREAU VERITAS
Certification

## Bushings

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 4.00 | 7.00 | 7.40 | **140952** |
| 5.02 | 7.97 | 7.15 | **142015** |
| 5.20 | 9.00 | 9.00 | **141117** |
| 6.00 | 10.20 | 8.20 | **140615** |
| 6.00 | 8.79 | 11.65 | **142044** |
| 6.02 | 9.00 | 7.10 | **140499** |
| 6.04 | 9.81 | 7.04 | **140992** |
| 6.05 | 10.02 | 8.30 | **140497** |
| 6.05 | 12.00 | 11.07 | **142068** |
| 6.07 | 8.75 | 10.80 | **140939** |
| 6.10 | 10.00 | 7.45 | **140787** |
| 6.10 | 10.05 | 10.40 | **141046** |
| 6.15 | 10.00 | 6.85 | **141132** |
| 6.16 | 10.00 | 8.91 | **140993** |
| 6.84 | 11.00 | 8.00 | **140994** |
| 7.00 | 11.95 | 8.50 | **142014** |
| 7.02 | 9.50 | 9.25 | **141249** |
| 7.02 | 10.00 | 6.10 | **140734** |
| 7.06 | 11.99 | 10.00 | **140991** |
| 7.07 | 9.60 | 10.00 | **141105** |
| 7.09 | 9.51 | 11.20 | **140788** |
| 7.10 | 9.50 | 8.20 | **331981** |
| 7.12 | 9.60 | 8.10 | **140965** |
| 8.01 | 11.12 | 8.00 | **141118** |
| 8.02 | 11.50 | 9.98 | **140947** |
| 8.02 | 11.51 | 11.43 | **140916** |
| 8.07 | 11.06 | 9.50 | **332877** |
| 8.09 | 11.12 | 10.00 | **140250** |
| 8.10 | 11.12 | 8.00 | **140249** |
| 8.10 | 11.55 | 11.63 | **141145** |
| 8.10 | 11.90 | 9.10 | **140941** |
| 8.10 | 12.00 | 6.80 | **141047** |
| 8.10 | 12.00 | 8.75 | **140653** |
| 8.11 | 10.93 | 11.25 | **141148** |
| 8.12 | 11.55 | 9.00 | **141091** |
| 8.12 | 12.12 | 11.44 | **140970** |
| 8.12 | 12.45 | 10.00 | **140987** |
| 8.12 | 13.10 | 8.34 | **140648** |
| 8.15 | 11.00 | 8.25 | **141134** |
| 8.50 | 11.70 | 10.00 | **141227** |
| 8.60 | 11.00 | 10.95 | **134772** |
| 9.00 | 11.00 | 15.10 | **251409#** |
| 9.05 | 13.00 | 8.50 | **142022** |
| 9.20 | 13.08 | 13.30 | **141133** |
| 9.35 | 11.98 | 12.46 | **237666** |
| 9.60 | 12.70 | 9.62 | **141217** |
| 9.60 | 14.30 | 9.45 | **141050** |
| 9.85 | 14.05 | 11.90 | **140915** |
| 9.90 | 16.60 | 8.05 | **140940** |
| 9.95 | 14.00 | 14.75 | **140691** |
| 10.00 | 11.62 | 14.15 | **142025** |
| 10.00 | 13.95 | 8.55 | **141074** |
| 10.00 | 14.00 | 12.00 | **140319** |
| 10.00 | 14.00-15.00 | 25.00 | **080162** |
| 10.00 | 14.05 | 9.35 | **141122** |
| 10.00 | 19.05 | 12.25 | **141215** |
| 10.03 | 13.04 | 13.00 | **140258** |
| 10.03 | 14.00 | 10.00 | **141202** |
| 10.03 | 14.00 | 12.50 | **140555** |
| 10.03 | 16.02 | 10.00 | **140988** |
| 10.03 | 16.10 | 12.50 | **140911** |
| 10.03 | 16.55 | 10.35 | **140248** |
| 10.04 | 16.55 | 13.80 | **141061** |

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 10.05 | 16.55 | 11.50 | **140204** |
| 10.06 | 13.04 | 16.00 | **140259** |
| 10.06 | 14.05 | 13.00 | **140155** |
| 10.07 | 13.05 | 12.00 | **140038** |
| 10.07 | 13.97 | 10.00 | **140842** |
| 10.07 | 16.55 | 14.60 | **140563** |
| 10.08 | 14.02 | 13.50 | **140050** |
| 10.08 | 14.02 | 15.00 | **140047** |
| 10.08 | 14.03 | 13.60 | **140156** |
| 10.08 | 14.09 | 13.00 | **140014** |
| 10.10 | 12.80 | 12.50 | **141257** |
| 10.10 | 12.95 | 10.45 | **140731** |
| 10.10 | 12.98 | 12.00 | **332635** |
| 10.10 | 14.00 | 9.55 | **141119** |
| 10.10 | 14.04 | 9.60 | **140430** |
| 10.10 | 15.01 | 10.00 | **141032** |
| 10.10 | 15.50 | 10.40 | **140424** |
| 10.11 | 14.04 | 9.90 | **140208** |
| 10.12 | 14.00 | 12.00 | **141146** |
| 10.17 | 14.07 | 12.20 | **141025** |
| 10.75 | 12.35 | 21.00 | **140998** |
| 10.81 | 12.66 | 21.00 | **141027#** |
| 10.95 | 13.06 | 13.10 | **141220** |
| 10.97 | 13.62 | 19.90 | **140937** |
| 11.00 | 13.00 | 12.60 | **141150** |
| 11.00 | 13.00 | 17.55 | **140466** |
| 11.00 | 13.10 | 10.20 | **332325** |
| 11.00 | 13.60 | 13.80 | **140008** |
| 11.00 | 14.70 | 12.80 | **140425** |
| 11.02 | 14.00 | 13.00 | **140428** |
| 11.03 | 13.23 | 12.70 | **141153** |
| 11.03 | 13.54 | 9.00 | **140929** |
| 11.03 | 13.55 | 20.00 | **140997#** |
| 11.05 | 14.72 | 8.00 | **140426** |
| 11.05 | 14.72 | 11.00 | **140427** |
| 11.06 | 13.03 | 13.00 | **140320** |
| 11.07 | 14.02 | 9.00 | **141165** |
| 11.07 | 15.08 | 15.00 | **140314** |
| 11.08 | 12.10 | 15.30 | **141221** |
| 11.09 | 12.60 | 11.50 | **140853** |
| 11.10 | 12.60 | 11.50 | **140028** |
| 11.10 | 14.03 | 13.80 | **142033** |
| 11.14 | 14.34 | 9.00 | **141014** |
| 11.15 | 13.97 | 13.90 | **141092** |
| 11.15 | 14.70 | 9.80 | **141011** |
| 11.15 | 15.85 | 16.30 | **140056** |
| 11.17 | 15.85 | 12.60 | **140663** |
| 11.17 | 15.86 | 12.70 | **140660** |
| 11.18 | 15.85 | 18.85 | **140666** |
| 11.20 | 15.85 | 12.35 | **140103** |
| 11.52 | 15.08 | 13.00 | **140315** |
| 11.53 | 13.50 | 23.00 | **140690** |
| 11.55 | 15.10 | 14.00 | **140309** |
| 11.60 | 13.40 | 12.30 | **140627** |
| 11.60 | 14.08 | 13.00 | **140435** |
| 11.75 | 13.40 | 11.00 | **140622** |
| 11.90 | 13.00 | 18.20 | **141271** |
| 11.95 | 13.15 | 18.40 | **141123** |
| 11.97 | 15.24 | 19.05 | **140187** |
| 11.99 | 15.11 | 18.67 | **140186** |
| 12.00 | 13.17 | 12.75 | **140183** |
| 12.00 | 13.20 | 16.15 | **140621** |
| 12.00 | 14.00 | 11.90 | **140858** |
| 12.00 | 15.00 | 11.90 | **142041** |
| 12.00 | 15.00 | 12.00 | **140040** |
| 12.00 | 15.06 | 16.00 | **140501** |
| 12.00 | 15.10 | 10.50 | **140192** |
| 12.00 | 15.40 | 10.00 | **142027** |
| 12.00 | 16.00 | 10.05 | **141075** |
| 12.00 | 16.00 | 16.90 | **140046** |
| 12.00 | 16.00 | 19.40 | **140374** |
| 12.00 | 16.30 | 22.50 | **140307** |
| 12.01 | 13.11 | 15.60 | **140467** |
| 12.02 | 16.00 | 9.50 | **140429** |



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 12.02 | 16.00 | 10.96 | **141252** |
| 12.03 | 13.50 | 18.79 | **140625** |
| 12.03 | 14.00 | 20.85 | **140729** |
| 12.03 | 16.02 | 17.00 | **140269** |
| 12.04 | 15.13 | 10.20 | **140844** |
| 12.04 | 15.56 | 5.50 | **140870** |
| 12.04 | 16.00 | 16.00 | **140436** |
| 12.05 | 13.18 | 18.40 | **140189** |
| 12.05 | 14.13 | 15.90 | **140730** |
| 12.05 | 15.07 | 13.50 | **140041** |
| 12.05 | 15.10 | 7.80 | **140665** |
| 12.06 | 15.04 | 10.00 | **140496** |
| 12.07 | 15.05 | 14.05 | **140662** |
| 12.07 | 15.05 | 20.00 | **140064** |
| 12.07 | 15.07 | 12.01 | **140533** |
| 12.07 | 16.02 | 11.30 | **140270** |
| 12.07 | 16.02 | 14.00 | **140048** |
| 12.08 | 14.09 | 13.90 | **140018** |
| 12.08 | 15.07 | 16.90 | **140057** |
| 12.08 | 15.55 | 5.50 | **332864** |
| 12.09 | 14.03 | 22.90 | **142009** |
| 12.09 | 15.08 | 19.00 | **140689** |
| 12.09 | 16.00 | 12.00 | **140268** |
| 12.09 | 16.11 | 14.00 | **140017** |
| 12.10 | 13.50 | 11.50 | **140857** |
| 12.10 | 13.57 | 11.50 | **140854** |
| 12.10 | 13.60 | 11.50 | **140030** |
| 12.10 | 13.60 | 13.50 | **140029** |
| 12.10 | 15.05 | 15.00 | **140043** |
| 12.10 | 16.03 | 5.35 | **141198** |
| 12.10 | 16.12 | 16.00 | **140009** |
| 12.11 | 14.02 | 20.80 | **141095** |
| 12.11 | 14.08 | 14.00 | **140036** |
| 12.11 | 14.10 | 12.00 | **140500** |
| 12.11 | 16.01 | 24.00 | **140049** |
| 12.12 | 15.04 | 13.90 | **141031** |
| 12.13 | 13.62 | 20.00 | **140782** |
| 12.16 | 13.20 | 12.65 | **140262** |
| 12.16 | 13.84 | 20.00 | **141056** |
| 12.20 | 15.15 | 8.40 | **141115** |
| 12.23 | 14.36 | 15.70 | **140322** |
| 12.40 | 16.55 | 10.40 | **141237** |
| 12.45 | 15.85 | 17.90 | **140996** |
| 12.50 | 16.00 | 20.00 | **141206** |
| 12.51 | 18.24 | 12.68 | **141051** |
| 12.52 | 16.00 | 15.00 | **140310** |
| 12.52 | 16.00 | 15.00 | **140310** |
| 12.53 | 14.02 | 10.50 | **140583** |
| 12.53 | 15.10 | 9.80 | **140694** |
| 12.53 | 15.50 | 10.50 | **140333** |
| 12.53 | 16.05 | 12.00 | **140311** |
| 12.54 | 14.72 | 14.00 | **140326** |
| 12.54 | 16.55 | 10.50 | **140328** |
| 12.54 | 16.55 | 14.00 | **140325** |
| 12.55 | 14.00 | 19.00 | **141136** |
| 12.55 | 16.50 | 10.60 | **140423** |
| 12.55 | 16.56 | 11.50 | **140003** |
| 12.55 | 16.57 | 7.85 | **140984** |
| 12.55 | 19.04 | 13.45 | **141077** |
| 12.55 | 19.05 | 11.90 | **141078** |
| 12.56 | 16.55 | 14.00 | **140012** |
| 12.56 | 16.60 | 6.00 | **332820** |
| 12.57 | 16.54 | 9.80 | **140856** |
| 12.57 | 16.55 | 15.80 | **140016** |
| 12.58 | 16.03 | 11.90 | **141135** |
| 12.59 | 16.55 | 18.00 | **140010** |
| 12.60 | 15.50 | 12.80 | **140579** |
| 12.60 | 18.57 | 19.50 | **140200** |
| 12.62 | 14.00 | 19.30 | **140584** |
| 12.63 | 14.10 | 10.50 | **140645** |
| 12.70 | 14.40 | 12.80 | **140582** |
| 12.70 | 15.80 | 11.40 | **141216** |
| 12.73 | 15.91 | 19.80 | **140217** |
| 12.74 | 15.85 | 19.00 | **140052** |

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 12.75 | 14.30 | 19.85 | **140185** |
| 12.75 | 19.14 | 14.00 | **140656** |
| 12.76 | 15.84 | 12.70 | **140054** |
| 12.76 | 15.91 | 16.50 | **140144** |
| 12.77 | 14.36 | 17.40 | **140207** |
| 12.78 | 15.95 | 19.00 | **141157** |
| 12.80 | 15.95 | 14.00 | **140657** |
| 12.85 | 14.91 | 21.50 | **140586** |
| 12.90 | 14.44 | 17.79 | **140629** |
| 13.00 | 15.15 | 12.40 | **141124** |
| 13.00 | 16.00 | 15.90 | **141127** |
| 13.03 | 16.00 | 16.00 | **140519** |
| 13.04 | 15.04 | 12.00 | **140157** |
| 13.04 | 15.05 | 14.50 | **140042** |
| 13.04 | 15.05 | 21.00 | **141243** |
| 13.20 | 19.10 | 11.90 | **141226** |
| 13.40 | 13.60 | 22.20 | **140623** |
| 13.80 | 19.20 | 20.15 | **140308** |
| 13.98 | 18.00 | 16.40 | **140464** |
| 14.00 | 16.20 | 21.20 | **140329** |
| 14.00 | 17.00 | 15.00 | **140485** |
| 14.00 | 17.00 | 16.00 | **140906** |
| 14.00 | 18.00 | 17.00 | **140313** |
| 14.00 | 18.00 | 20.00 | **140316** |
| 14.00 | 18.05 | 6.40 | **142028** |
| 14.02 | 15.60 | 16.00 | **140775** |
| 14.02 | 18.04 | 17.00 | **141208** |
| 14.03 | 17.00 | 16.20 | **140601** |
| 14.03 | 17.50 | 19.00 | **140521** |
| 14.04 | 16.02 | 16.00 | **141128** |
| 14.04 | 20.02 | 10.00 | **140006** |
| 14.05 | 17.48 | 19.00 | **140487**[#] |
| 14.05 | 18.03 | 16.00 | **140684** |
| 14.05 | 18.05 | 15.00 | **140667** |
| 14.06 | 17.06 | 19.70 | **140058** |
| 14.06 | 18.03 | 14.00 | **140019** |
| 14.07 | 18.05 | 20.15 | **140065** |
| 14.08 | 17.58 | 15.00 | **140004** |
| 14.08 | 20.03 | 17.00 | **140203** |
| 14.10 | 20.05 | 10.00 | **140855** |
| 14.13 | 18.05 | 13.39 | **141064** |
| 14.16 | 18.10 | 11.15 | **140999** |
| 14.16 | 20.06 | 12.00 | **140202** |
| 14.20 | 16.04 | 10.60 | **140908** |
| 14.20 | 16.20 | 15.70 | **140323** |
| 14.20 | 16.30 | 19.80 | **140330** |
| 14.23 | 16.85 | 10.00 | **141204**[#] |
| 14.25 | 16.05 | 9.95 | **141161** |
| 14.25 | 17.25 | 9.15 | **141151** |
| 14.27 | 17.26 | 12.45 | **140321** |
| 14.30 | 16.00 | 11.50 | **140033** |
| 14.30 | 16.00 | 13.70 | **140031** |
| 14.30 | 16.03 | 16.90 | **140862** |
| 14.30 | 17.49 | 17.97 | **141201** |
| 14.31 | 19.10 | 12.50 | **142084** |
| 14.32 | 17.62 | 22.20 | **140688** |
| 14.33 | 18.05 | 18.00 | **140977** |
| 14.34 | 16.04 | 20.39 | **140867** |
| 14.35 | 17.26 | 12.50 | **141076** |
| 14.35 | 17.55 | 19.00 | **140215** |
| 14.36 | 16.02 | 10.00 | **140035** |
| 14.36 | 16.02 | 23.50 | **140866** |
| 14.36 | 19.17 | 19.10 | **140071** |
| 14.37 | 16.03 | 16.40 | **140181** |
| 14.37 | 19.17 | 24.60 | **140070** |
| 14.38 | 15.90 | 16.70 | **140184** |
| 14.39 | 16.00 | 18.00 | **140261** |
| 14.40 | 15.10 | 25.90 | **140626** |
| 14.43 | 17.31 | 13.20 | **141222** |
| 14.44 | 16.00 | 15.20 | **140865** |
| 14.50 | 16.05 | 25.75 | **140628** |
| 14.50 | 18.00 | 15.00 | **140757** |
| 14.52 | 18.00 | 17.00 | **140756** |
| 15.00 | 18.50 | 11.20 | **140792** |



All measurements are in mm, unless else stated.

O.E.M. names and numbers are used for reference purposes only.

[#]Available while stock last, ***** Program development.

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 15.00 | 20.00 | 19.85 | **140527** |
| 15.03 | 19.02 | 19.90 | **140517** |
| 15.03 | 20.00 | 16.00 | **140318** |
| 15.10 | 22.04 | 12.70 | **140005** |
| 15.11 | 18.20 | 22.20 | **140062** |
| 15.18 | 18.12 | 11.90 | **140614** |
| 15.20 | 17.15 | 14.00 | **134894** |
| 15.45 | 17.00 | 9.85 | **140624** |
| 15.70 | 19.10 | 7.00 | **140950** |
| 15.72 | 19.58 | 9.80 | **140962** |
| 15.77 | 17.02 | 9.81 | **140964** |
| 15.80 | 20.00 | 12.55 | **141214** |
| 15.90 | 17.50 | 14.20 | **140193** |
| 15.90 | 19.10 | 15.20 | **140553** |
| 15.90 | 19.10 | 24.40 | **141158** |
| 15.95 | 19.13 | 18.00 | **140173** |
| 15.95 | 19.15 | 14.00 | **140257** |
| 15.95 | 20.68 | 17.30 | **141129** |
| 15.96 | 19.11 | 11.90 | **140188** |
| 15.97 | 19.20 | 21.90 | **140074** |
| 15.99 | 19.15 | 18.90 | **140053** |
| 16.00 | 19.15 | 15.00 | **140066** |
| 16.00 | 20.00 | 10.00 | **140119** |
| 16.00 | 20.00 | 8.00 | **140440** |
| 16.00 | 22.30 | 17.05 | **141028** |
| 16.05 | 20.04 | 24.90 | **140670** |
| 16.05 | 21.10 | 16.90 | **140489** |
| 16.09 | 18.00 | 22.00 | **140221** |
| 16.09 | 20.07 | 11.00 | **140805**# |
| 16.12 | 22.00 | 19.00 | **140109** |
| 16.25 | 22.02 | 29.00 | **140110** |
| 16.27 | 19.15 | 15.00 | **140264** |
| 16.35 | 18.20 | 19.95 | **251413**# |
| 16.50 | 20.00 | 8.00 | **141013** |
| 16.52 | 19.10 | 20.00 | **141235** |
| 16.67 | 19.60 | 19.00 | **140140** |
| 17.00 | 19.00 | 19.70 | **140777** |
| 17.00 | 20.00 | 8.00 | **140505** |
| 17.03 | 18.75 | 25.00 | **141016** |
| 17.05 | 21.05 | 20.00 | **140068** |
| 17.07 | 21.05 | 22.00 | **140658** |
| 17.08 | 21.05 | 24.00 | **140680** |
| 17.10 | 19.05 | 19.96 | **140835** |
| 17.10 | 20.10/25.30 | 13.50 | **141228** |
| 17.10 | 22.10 | 16.20 | **141131** |
| 17.30 | 18.85 | 24.90 | **141072**# |
| 17.50 | 20.10 | 7.60 | **140306** |
| 17.50 | 22.35 | 28.50 | **140478** |
| 17.53 | 20.65 | 16.75 | **140194** |
| 17.60 | 20.90 | 7.40 | **142057** |
| 17.60 | 21.60 | 9.40 | **140027** |
| 17.93 | 22.10 | 7.05 | **141099** |
| 18.00 | 20.08 | 25.95 | **142061** |
| 18.00 | 21.00 | 8.90 | **142011** |
| 18.00 | 22.10 | 8.00 | **140251** |
| 18.01 | 22.24 | 5.93 | **140928** |
| 18.02 | 22.04 | 5.90 | **140711** |
| 18.03 | 22.10 | 6.00 | **140252** |
| 18.03 | 22.10 | 7.00 | **141096** |
| 18.03 | 23.00 | 9.20 | **141017** |
| 18.05 | 22.04 | 5.00 | **140498** |
| 18.05 | 24.05 | 19.25 | **141140** |
| 18.06 | 20.98 | 8.97 | **142083** |
| 18.08 | 22.06 | 4.95 | **141160** |
| 18.08 | 23.05 | 9.30 | **141197** |
| 18.12 | 22.04 | 6.79 | **140927** |
| 18.12 | 22.10 | 7.10 | **140869** |
| 18.13 | 24.02 | 28.00 | **140211** |
| 18.16 | 23.05 | 7.43 | **140654** |
| 18.19 | 20.98 | 9.00 | **142034** |
| 18.21 | 22.05 | 7.00 | **141139** |
| 18.80 | 20.00 | 11.00 | **140484** |
| 18.93 | 22.09 | 9.00 | **140779** |
| 18.98 | 23.01 | 19.80 | **140449** |
| 19.00 | 20.65 | 18.50 | **140182** |
| 19.00 | 22.00 | 18.00 | **140776** |
| 19.00 | 22.30 | 6.30 | **140843** |
| 19.00 | 23.00 | 19.00 | **140520** |
| 19.00 | 23.02 | 25.00 | **140959** |
| 19.00 | 23.50 | 10.00 | **141264** |
| 19.03 | 22.05 | 9.00 | **140846** |
| 19.05 | 25.40 | 19.50 | **140403** |
| 19.06 | 22.55 | 14.00 | **140758** |
| 19.10 | 22.25 | 20.50 | **140661** |
| 19.10 | 23.10 | 13.00 | **140026** |
| 19.10 | 25.45 | 19.00 | **141143** |
| 19.11 | 20.70 | 17.90 | **140059** |
| 19.11 | 23.08 | 9.80 | **140025** |
| 19.12 | 25.10 | 12.80 | **140151** |
| 19.13 | 23.05 | 13.20 | **140859** |
| 19.13 | 25.09 | 10.00 | **140020** |
| 19.15 | 22.20 | 20.35 | **140102** |
| 19.19 | 31.81 | 10.29 | **140404** |
| 19.22 | 22.53 | 11.00 | **141207** |
| 19.30 | 22.60 | 19.25 | **140406** |
| 19.35 | 20.60 | 9.50 | **140944** |
| 20.00 | 22.20 | 26.80 | **141191** |
| 20.01 | 25.00 | 10.80 | **140905**# |
| 20.02 | 24.03 | 5.00 | **140735** |
| 20.02 | 24.06 | 12.00 | **140067** |
| 20.04 | 24.05 | 16.00 | **140676** |
| 20.05 | 28.05 | 29.00 | **140672** |
| 20.05 | 28.07 | 24.90 | **140673** |
| 20.10 | 24.02 | 18.00 | **140679** |
| 20.12 | 25.12 | 9.25 | **140995** |
| 20.20 | 25.10 | 10.65 | **141138** |
| 20.31 | 24.00 | 13.90 | **140201** |
| 20.35 | 26.50 | 12.50 | **140317** |
| 20.50 | 26.55 | 11.90 | **141141** |
| 21.03 | 25.00 | 11.80 | **141212** |
| 21.09 | 24.70 | 4.30 | **141055**# |
| 21.24 | 24.50 | 31.70 | **140477** |
| 21.30 | 24.40 | 25.00 | **140206** |
| 21.67 | 26.46 | 12.55 | **140909**# |
| 21.92 | 28.05 | 18.00 | **141097** |
| 22.00 | 26.00 | 11.95 | **140949** |
| 22.05 | 25.45 | 33.60 | **140746** |
| 22.05 | 26.05 | 28.00 | **140170** |
| 22.07 | 26.00 | 5.19 | **141082** |
| 22.14 | 28.07 | 11.20 | **140111** |
| 22.22 | 28.60 | 31.75 | **140402** |
| 22.25 | 28.65 | 29.90 | **141144** |
| 22.34 | 26.70 | 5.50 | **142047** |
| 22.34 | 28.65 | 9.00 | **141048** |
| 22.35 | 26.25 | 34.00 | **140664** |
| 22.35 | 26.70 | 9.00 | **140942** |
| 22.40 | 26.70 | 8.10 | **141125** |
| 22.53 | 25.67 | 25.40 | **140214** |
| 22.71 | 28.50 | 5.90 | **140554** |
| 22.85 | 28.65 | 5.80 | **141154** |
| 23.02 | 28.60 | 4.05 | **140847** |
| 23.04 | 26.07 | 8.45 | **141238** |
| 23.05 | 28.50 | 3.95 | **141155** |
| 23.05 | 28.64 | 3.76 | **141205** |
| 23.05 | 28.64 | 3.80 | **141080**# |
| 23.10 | 27.05 | 20.00 | **140397** |
| 23.25 | 28.55 | 5.00 | **141073**# |
| 23.55 | 27.00 | 5.85 | **140698** |
| 23.85 | 27.00 | 5.65 | **141182** |
| 23.90 | 29.30 | 5.95 | **140697** |
| 23.93 | 29.30 | 6.03 | **140774** |
| 24.00 | 25.40 | 10.65 | **141241** |
| 24.20 | 29.00 | 18.00 | **140452** |
| 24.90 | 32.00 | 17.85 | **140745** |
| 25.02 | 30.04 | 15.00 | **140683** |
| 25.03 | 32.07 | 20.00 | **140669** |
| 25.15/8.03 | 29.20/11.02 | 8.00/9.50 | **142000** |
| 25.47 | 28.65 | 21.60 | **140212** |



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 25.50 | 28.66 | 17.30 | **140594** |
| 25.60 | 31.80 | 8.85 | **141126#** |
| 26.10 | 30.40 | 11.35 | **140256** |
| 26.10 | 32.10 | 11.60 | **140692** |
| 27.05 | 35.07 | 14.40 | **140671** |
| 27.16 | 31.14 | 5.63 | **140572** |
| 27.78 | 32.00 | 28.00 | **140450** |
| 28.30 | 33.00 | 26.35 | **140154** |
| 28.30 | 35.70 | 10.00 | **140312** |
| 28.35 | 32.25 | 10.00 | **140850** |
| 28.56 | 31.77 | 13.00 | **140659** |
| 30.10 | 35.00 | 22.95 | **140778** |
| 30.10 | 37.08 | 25.00 | **140864#** |
| 34.50 | 39.17 | 41.80 | **140007#** |
| 34.90 | 39.30 | 47.00 | **140171** |
| 35.80 | 39.50 | 47.80 | **141003** |
| 40.12 | 48.04 | 10.50 | **140011** |
| | | 20.00 | **080161** |
| | | 30.50 | **080165** |
| | | 33.50 | **080232** |
| | 18.00 | 40.00 | **236539** |
| | | 40.50 | **080163** |
| | | | **140104** |
| | | | **140593** |
| | | | **140540** |
| | | | **140473** |
| | | | **140537** |
| | | | **140528** |
| | | | **140655** |
| | | | **140541** |
| | | | **140646** |
| | | | **140526** |
| | | | **140539#** |
| | | | **140590** |
| | | | **140531** |
| | | | **140472** |
| | | | **140543** |
| | | | **140592** |
| | | | **140827** |
| | | | **140536** |

## Mounting Bushings

### Type A

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 8.40 | 13.40 | 15.40 | **231520** |
| 10.00 | 18.30 | 18.00 | **137801** |
| 12.00 | 19.50 | 16.20 | **134783#** |

### Type B

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 8.00 | 13.05 | 20.00 | **134774** |
| 8.00 | 13.50 | 20.00 | **136461** |
| 8.00 | 14.00 | 20.00 | **134775** |
| 8.20 | 13.60 | 20.00 | **135211#** |
| 8.50 | 18.07 | 20.00 | **138086#** |
| 8.60 | 15.30 | 15.30 | **134278** |
| 10.00 | 15.00 | 18.00 | **134964** |
| 10.00 | 16.50 | 15.30 | **134277** |
| 10.00 | 17.00 | 20.00 | **233338** |
| 10.00 | 18.10 | 20.00 | **137263#** |
| 10.00 | 19.03 | 18.30 | **137400** |
| 10.20 | 20.20 | 22.00 | **230508** |
| 10.20 | 21.00 | 18.00 | **139245** |
| 10.30 | 21.00 | 22.00 | **137262** |
| 10.50 | 17.10 | 16.00 | **234575** |
| 12.00 | 19.70 | 22.00 | **134782#** |
| 12.20 | 21.10 | 27.00 | **137408#** |
| 12.30 | 18.00 | 27.00 | **137461** |
| 12.30 | 18.08 | 22.00 | **137343** |
| 12.50 | 21.00 | 22.00 | **230079** |
| 12.50 | 21.20 | 25.00 | **138240** |
| 12.70 | 22.23 | 20.30 | **232737** |
| 13.30 | 21.15 | 20.00 | **138241** |
| 13.35 | 19.35 | 20.30 | **233276#** |
| 13.40 | 21.30 | 27.00 | **139968** |



O.E.M. names and numbers are used for reference purposes only.

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#Available while stock last, * Program development.

## Type C

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 8.00 | 13.00 | 21.00 | **138451** |
| 8.40 | 14.00 | 13.00 | **135216** |
| 9.00 | 11.00/20.00 | 8.00 | **138243** |
| 10.00 | 16.50/22.00 | 20.70 | **135421#** |
| 10.10 | 16.60 | 16.00 | **134676** |
| 10.20 | 14.00 | 17.80 | **138435** |
| 10.20 | 16.80/21.50 | 13.00 | **230910** |
| 10.50 | 15.50 | 18.30 | **234825** |
| 10.50 | 15.50/22.50 | 18.20 | **232669** |
| 10.50 | 17.00/22.00 | 15.00 | **134276** |
| 11.00 | 14.00/21.50 | 8.10 | **138089** |
| 11.00 | 18.60 | 26.00 | **234713** |
| M12 | 16.15 | 20.90 | **139621#** |

## Type D

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 8.80 | 15.00 | 25.00 | **232063** |
| 8.80 | 15.00 | 25.00 | **232063** |
| 8.85 | 13.50 | 25.20 | **139747#** |
| 10.00 | 16.00 | 21.00 | **137497** |
| 10.00 | 16.00-22.00 | 20.00 | **232742** |
| 10.00 | 16.00-22.00 | 21.00 | **232745** |
| 10.00 | 18.20/22.00 | 15.00 | **231560** |
| 10.30 | 17.90/25.00 | 26.50 | **138245** |
| 10.35 | 18.00/21.90 | 21.10 | **138091** |
| 10.60 | 18.00 | 20.00 | **138244** |
| | 18.00 | 21.00 | **233574** |

## Type F

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| M10 | 17.96 | 19.01 | **235788** |
| | 18.02 | 20.00 | **137575** |
| | 21.00 | 20.00 | **231257** |

## Type G

| OD | Length | HC-CARGO |
|---|---|---|
| 18.30 | 23.00 | **133752** |
| 18.50 | 21.00 | **234835** |

## Type H

| OD | Length | HC-CARGO |
|---|---|---|
| 21.00 | 25.00 | **233920** |
| 21.00 | 32.00 | **138087** |

## Type J

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 10.50 | 18.00 | 13.00 | **136932** |
| 10.50 | 18.00 | 16.00 | **134792** |

## Type K

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 9.43 | 14.87 | 12.99 | **330706#** |

## Mounting Bushing Kit

| ID | OD | Length | HC-CARGO |
|---|---|---|---|
| 8.00 | 10.80 | 8.00 | **132573** |
| 8.00 | 15.00 | 25.00 | **131820** |
| 8.15 | 15.00 | 56.00 | **133641** |
| 8.20 | 15.00 | 51.00 | **131821** |
| 10.00 | 13.00 | 5.00 | **131604#** |
| 10.00 | 14.50 | 9.00 | **131607** |
| 10.40 | 18.50 | 12.20 | **137756** |
| 10.50 | 18.30 | 14.90 | **137757** |
| 12.30 | 21.00 | 29.00 | **132572** |
| 12.30 | 21.00 | 29.00 | **132572** |
| M10 | 14.85 | 12.55 | **131605** |
| M10 | 16.60 | 12.00 | **131606** |

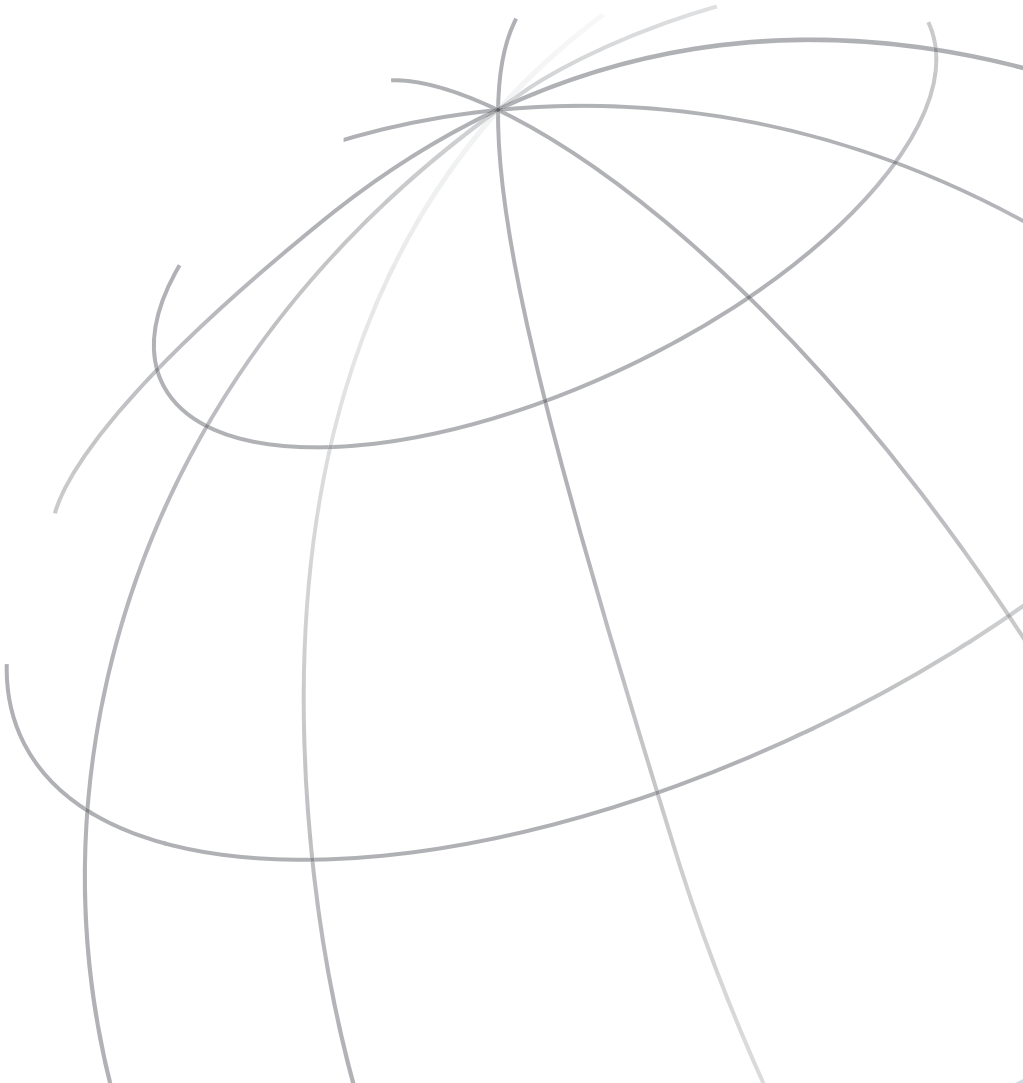


All measurements are in mm, unless else stated.
#Available while stock last, * Program development.



O.E.M. names and numbers are used for reference purposes only.

# Assortments



**Edition 2017-2019**

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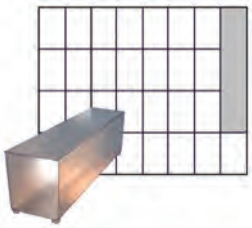
## Assortment Box and Inserts

**200663** Std pkg 6
Profi Service Case, empty.
Can be divided using inserts.
Dim.: 340 x 265 x 57 mm.
Polypropylene (Unbreakable).

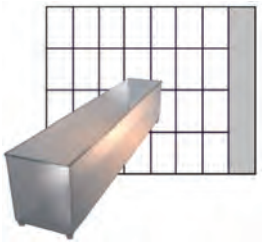
### INSERTS FOR ASSORTMENT BOXES
### Polypropylene (Unbreakable)

**200664** Std pkg 96
Dim.: 55 x 40 x 45 mm.

**200665** Std pkg 48
Dim.: 110 x 40 x 45 mm.

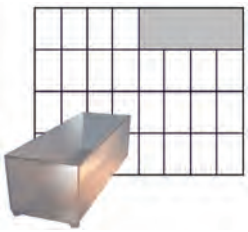


**200666** Std pkg 30
Dim.: 165 x 40 x 45 mm.

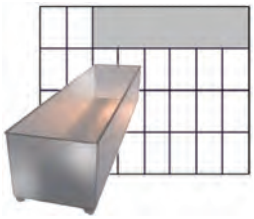


**200667** Std pkg 24
Dim.: 220 x 40 x 45 mm.

**200668** Std pkg 48
Dim.: 55 x 80 x 45 mm.

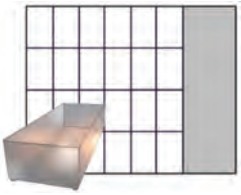


**200669** Std pkg 24
Dim.: 55 x 160 x 45 mm.

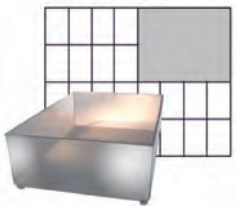


**200670** Std pkg 15
Dim.: 55 x 240 x 45 mm.

**200671** Std pkg 24
Dim.: 110 x 80 x 45 mm.



**200672** Std pkg 12
Dim.: 220 x 80 x 45 mm.



**200673** Std pkg 12
Dim.: 110 x 160 x 45 mm.

**200676**
Display for 4 Profi Service Cases.
Dim.: 330 x 360 x 200 mm

**200693**
Display for 4 Profi service cases.
Dim.: 313 x 373 x 265 mm
Can be assembled horizontally or vertically.



All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

## Solenoid Parts / Denso — 803004

| HC-CARGO | Item | Qty. |
|---|---|---|
| 131830 | Copper Contact Kit | 2 |
| 131831 | Copper Contact Kit | 2 |
| 131832 | Copper Contact Kit | 2 |
| 131833 | Copper Contact Kit | 2 |
| 132563 | Plunger | 1 |
| 132565 | Contact Kit | 2 |
| 132567 | Contact Kit | 2 |
| 132568 | Contact Kit | 2 |
| 132570 | Plunger | 1 |
| 133602 | Contact Kit | 2 |
| 133634 | Contact Kit | 2 |
| 133635 | Contact Kit | 2 |
| 135384 | Contact Kit | 2 |
| 135385 | Contact Kit | 2 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| 139047 | Contact Kit | 2 |
| 139494 | Contact Kit | 2 |
| 139532 | Contact Kit | 2 |
| 139046 | Contact Kit | 2 |

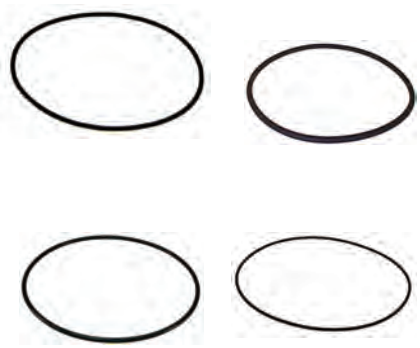
## Various Brushes / DC Motors — 803005

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140164 | Brush | 10 |
| 140408 | Brush Set | 4 |
| 140410 | Brush Set | 4 |
| H106 | Brush | 6 |
| H26 | Brush | 10 |
| H54 | Brush | 10 |
| H56 | Brush | 10 |
| H5-6 | Brush | 10 |
| PL5 | Brush | 6 |
| SW126 | Brush | 10 |

## Various O-rings — 803007

| HC-CARGO | Item | Qty. |
|---|---|---|
| 132659 | O-Ring | 5 |
| 132660 | O-Ring | 10 |
| 132891 | O-Ring | 10 |
| 132892 | O-Ring | 5 |
| 132893 | O-Ring | 10 |
| 132900 | O-Ring | 5 |
| 133040 | O-Ring | 5 |
| 133597 | O-Ring | 5 |
| 133598 | O-Ring | 5 |
| 133717 | O-Ring | 5 |
| 133965 | O-Ring | 5 |
| 134482 | O-Ring | 10 |
| 134484 | O-Ring | 10 |
| 134485 | O-Ring | 10 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| 134486 | O-Ring | 10 |
| 134487 | O-Ring | 10 |
| 134488 | O-Ring | 10 |
| 134489 | O-Ring | 10 |
| 134490 | O-Ring | 5 |
| 134491 | O-Ring | 10 |
| 134612 | O-Ring | 10 |
| 134613 | O-Ring | 5 |
| 134633 | O-Ring | 10 |
| 134692 | O-Ring | 10 |
| 134716 | O-Ring | 10 |
| 134776 | O-Ring | 10 |
| 134931 | O-Ring | 5 |
| 134965 | O-Ring | 5 |



## Bushings / Bosch — 803012

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140003 | Bushing | 10 |
| 140004 | Bushing | 10 |
| 140008 | Bushing | 10 |
| 140009 | Bushing | 10 |
| 140010 | Bushing | 10 |
| 140012 | Bushing | 10 |
| 140016 | Bushing | 10 |
| 140017 | Bushing | 10 |
| 140018 | Bushing | 10 |
| 140019 | Bushing | 10 |
| 140020 | Bushing | 5 |
| 140025 | Bushing | 10 |
| 140026 | Bushing | 5 |
| 140027 | Bushing | 10 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140028 | Bushing | 10 |
| 140029 | Bushing | 10 |
| 140030 | Bushing | 10 |
| 140035 | Bushing | 10 |
| 140140 | Bushing | 5 |
| 140151 | Bushing | 5 |
| 140203 | Bushing | 5 |
| 140204 | Bushing | 10 |
| 140208 | Bushing | 10 |
| 140249 | Bushing | 10 |
| 140251 | Bushing | 10 |
| 140252 | Bushing | 10 |
| 140261 | Bushing | 10 |
| 140423 | Bushing | 10 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140500 | Bushing | 10 |
| 140563 | Bushing | 10 |
| 140645 | Bushing | 10 |
| B140250 | Bushing | 10 |

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#Available while stock last, * Program development.

## Brushes 12V / Bosch — 803018

| HC-CARGO | Item | Qty. |
|---|---|---|
| BSX124 | Brush Set | 2 |
| BSX754 | Brush Set | 2 |
| BSX964 | Brush Set | 2 |
| BSX1024 | Brush Set | 2 |
| BSX1044 | Brush Set | 2 |
| BSX764 | Brush Set | 2 |
| BSX134-1444 | Brush Set | 2 |
| BSX137-1434 | Brush Set | 2 |
| BSX1394 | Brush Set | 2 |
| BSX1404 | Brush Set | 2 |
| BSX175-1764 | Brush Set | 2 |
| BSX1494 | Brush Set | 2 |
| BSX97F4 | Brush Set | 2 |
| BSX98F4 | Brush Set | 2 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| BSX124F4 | Brush Set | 2 |
| BSX151S4 | Brush Set | 2 |
| BSX157-1584 | Brush Set | 2 |
| BSX159-1604 | Brush Set | 2 |

## Brushes / Denso — 803029

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140356 | Brush Set | 2 |
| 140357 | Brush Set | 2 |
| 140358 | Brush Set | 2 |
| 140359 | Brush Set | 2 |
| 140360 | Brush Set | 2 |
| 140361 | Brush Set | 2 |
| 140362 | Brush Set | 2 |
| 140363 | Brush Set | 2 |
| 140364 | Brush Set | 2 |
| 140393 | Brush Set | 2 |
| 140396 | Brush Set | 2 |
| 140566 | Brush | 2 |
| 140570 | Brush | 2 |
| 140602 | Brush Set | 2 |

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140647 | Brush Set | 2 |
| 140740 | Brush Set | 2 |

## Various Brushes / Japanese Starters — 803038

| HC-CARGO | Item | Qty. |
|---|---|---|
| 140334 | Brush Set | 2 |
| 140336 | Brush Set | 2 |
| 140338 | Brush Set | 2 |
| 140347 | Brush Set | 2 |
| 140349 | Brush Set | 2 |
| 140361 | Brush Set | 2 |
| 140362 | Brush Set | 2 |
| 140363 | Brush Set | 2 |
| 140364 | Brush Set | 2 |
| 140378 | Brush Set | 2 |
| 140379 | Brush Set | 2 |
| 140387 | Brush Set | 2 |
| 140556 | Brush Set | 2 |
| 140559 | Brush Set | 2 |

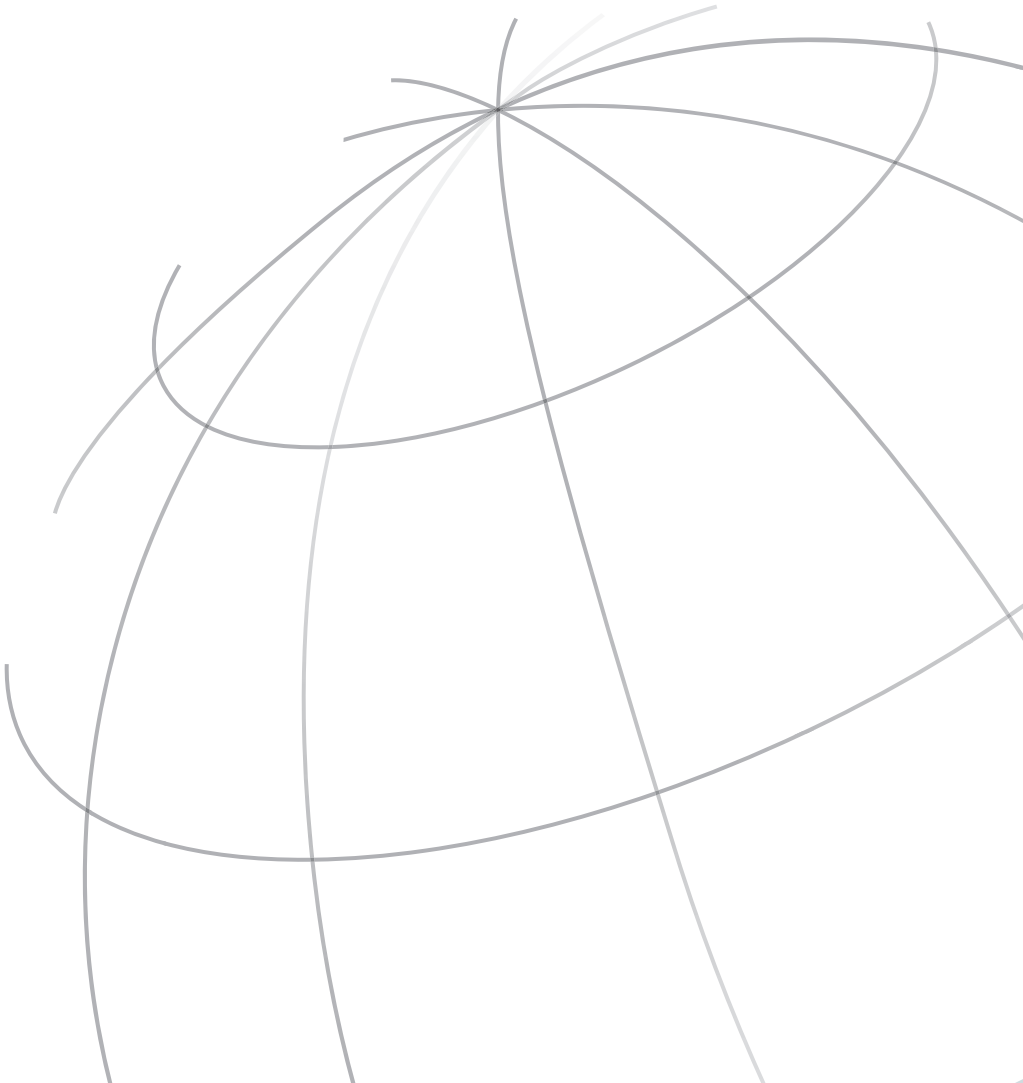
| HC-CARGO | Item | Qty. |
|---|---|---|
| 140567 | Brush Set | 2 |
| 140708 | Brush Set | 2 |

All measurements are in mm, unless else stated.
#Available while stock last, * Program development.

O.E.M. names and numbers are used for reference purposes only.

# Cross reference list

## OE no. - HC-CARGO no.



**Edition 2017-2019**

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BUREAU VERITAS
Certification

| O.E. No. | HC-CARGO |
|---|---|
| **BOMBARDIER** | |
| 295-500-089 | 139083 |
| **BOSCH** | |
| 0011516314 | 235529 |
| 0311402606 | 138313 |
| 0330105001 | 130304 |
| 0330105001 | 333155 |
| 0331100002 | 130282 |
| 0331100005 | 130281 |
| 0331100009 | 130283 |
| 0331100009 | 333162 |
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| 0331100014 | 130281 |
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| 0331101016 | 130283 |
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| 0331101019 | 130282 |
| 0331300019 | 331019 |
| 0331300022 | 331019 |
| 0331300025 | 331019 |
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| 0331302002 | 133642 |
| 0331302003 | 133642 |
| 0331302004 | 135871 |
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| 0331302009 | 133642 |
| 0331302010 | 133141 |
| 0331302011 | 136025 |
| 0331302013 | 135871 |
| 0331302015 | 133642 |
| 0331302018 | 133141 |
| 0331302024 | 134823 |
| 0331302025 | 136025 |
| 0331302026 | 133642 |
| 0331302027 | 136025 |
| 0331302029 | 133636 |
| 0331302030 | 136025 |
| 0331302032 | 134823 |
| 0331302033 | 130293 |
| 0331302034 | 136025 |
| 0331302036 | 133141 |
| 0331302039 | 133636 |
| 0331302040 | 130468 |
| 0331302042 | 130471 |
| 0331302043 | 136025 |
| 0331302044 | 133636 |
| 0331302045 | 133636 |
| 0331302046 | 133636 |
| 0331302047 | 130471 |
| 0331302049 | 133636 |
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| 0331302053 | 135878 |
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| 0331302056 | 133643 |
| 0331302058 | 135358 |
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| 0331302060 | 233896 |
| 0331302061 | 135358 |
| 0331302062 | 131790 |
| 0331302063 | 130470 |
| 0331302064 | 130468 |
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| 0331302067 | 130468 |
| 0331302070 | 130468 |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| 28150-87506-000 | 133723 |
| 28150-87701-000 | 131807 |
| 28150-87714-000 | 138183 |
| 28150-87716-000 | 138183 |
| 28150-87719-000 | 138183 |
| 28160-64040-000 | 137978 |
| 28226-72080-000 | 139495 |
| 28251-87701-000 | 139455 |
| 28251-87702-000 | 136887 |
| 28254-64040-000 | 233546 |
| 28254-77090-000 | 138569 |
| 28254-87702-000 | 138570 |
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| 021200-2120 | 132796 |
| 021200-3251 | 135590 |
| 021541-0231 | 231520 |
| 021541-0320 | 231520 |
| 021541-0321 | 231520 |
| 021541-0630 | 137801 |



O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| 021541-0721 | 133752 |
| 021541-0790 | 231520 |
| 021541-1080 | 133752 |
| 021541-1081 | 133752 |
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| 021660-0440 | 132570 |
| 021660-0441 | 132570 |
| 021660-0442 | 132570 |
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| 028017-0050 | 135127 |
| 028017-0060 | 135475 |
| 028017-0070 | 135127 |
| 028017-0110 | 135128 |
| 028021-0063 | 136175 |
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| 028021-0291 | 133716 |
| 028021-0310 | 136175 |
| 028021-0331 | 136089 |
| 028021-5010 | 136088 |
| 028025-0050 | 232214 |
| 028025-0230 | 232214 |
| 028062-0091 | 136084 |
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| 028062-0272 | 231731 |
| 028062-0360 | 132888 |
| 028062-0480 | 132888 |
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| 028062-5790 | 232594 |
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| 028062-6180 | 131837 |
| 028062-7081 | 231731 |
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| 028063-0030 | 135474 |
| 028063-0040 | 132895 |
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| 028065-0100 | 137976 |
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| 028065-0300 | 232594 |
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| 028099-2520 | 230744 |
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| 028099-2601 | 139037 |
| 028099-2620 | 140362 |
| 028099-2628 | 140362 |
| 028099-2670 | 140362 |
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| 028099-2691 | 133601 |
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| 028099-2791 | 132564 |
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| 028099-2921 | 132568 |
| 028099-2940 | 132004 |
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| 028099-3980 | 140647 |
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| 028099-6401 | 230744 |
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| 028099-6470 | 230744 |
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| 028099-7752 | 139532 |
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| 028099-8961 | 139532 |
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| 028099-9131 | 135384 |
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| 028100-2882 | 135750 |
| 028100-3001 | 135751 |
| 028100-3002 | 135751 |
| 028100-3100 | 138355 |
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| 028100-3491 | 135102 |
| 028100-3492 | 135102 |
| 028100-3641 | 135102 |
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| 028100-3751 | 137350 |
| 028100-3760 | 135102 |
| 028100-3770 | 135790 |
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| 028100-3801 | 135750 |
| 028100-3810 | 135751 |
| 028100-3990 | 135102 |
| 028100-4040 | 138355 |
| 028100-4330 | 135102 |
| 028100-4360 | 135790 |
| 028100-4390 | 138355 |
| 028100-4430 | 135790 |
| 028100-5110 | 135790 |
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| 028100-5170 | 137350 |
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| 028100-5391 | 135750 |
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| 028100-5540 | 135790 |
| 028100-5580 | 135802 |
| 028100-5900 | 135802 |
| 028100-6010 | 136885 |
| 028100-6130 | 137977 |
| 028100-6150 | 230057 |
| 028100-6200 | 137954 |
| 028100-6280 | 137954 |
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| 028100-6350 | 136897 |
| 028100-6630 | 230057 |
| 028100-6710 | 136897 |
| 028100-6920 | 231732 |
| 028100-6970 | 139149 |
| 028100-7110 | 136897 |
| 028100-7230 | 137954 |
| 028100-7420 | 235097 |
| 028100-7680 | 136885 |
| 028100-7750 | 230057 |
| 028100-8190 | 138355 |
| 028110-1910 | 135751 |
| 028110-5081 | 232908 |
| 028200-0910 | 138383 |
| 028200-1260 | 135853 |
| 028200-1261 | 135853 |
| 028200-1313 | 134368 |
| 028200-1511 | 134368 |
| 028200-1531 | 132796 |
| 028200-1590 | 132553 |
| 028200-1780 | 132869 |
| 028200-1820 | 133389 |
| 028200-1890 | 137978 |
| 028200-1900 | 132869 |
| 028200-2010 | 135824 |
| 028200-2120 | 132796 |
| 028200-2140 | 134369 |
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| 028200-2290 | 135853 |
| 028200-2320 | 134370 |
| 028200-2470 | 133713 |
| 028200-2800 | 139701 |
| 028200-4540 | 132796 |
| 028200-5040 | 137978 |
| 028200-5050 | 235827 |
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| 028200-5250 | 138675 |
| 028200-5340 | 136862 |
| 028200-5370 | 134370 |
| 028200-5510 | 133713 |
| 028200-5871 | 136884 |
| 028200-5901 | 133713 |
| 028200-5920 | 133713 |
| 028200-5991 | 236958 |
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| 028200-6230 | 132869 |
| 028200-6240 | 135853 |
| 028200-6250 | 136896 |
| 028200-6260 | 137953 |
| 028200-6850 | 137978 |
| 028200-6860 | 139148 |
| 028200-6880 | 233812 |
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| 028200-7440 | 137978 |
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| 028300-0630 | 130441 |
| 028300-0660 | 130442 |
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| 028300-0800 | 130441 |
| 028300-0801 | 130441 |
| 028300-0830 | 132545 |
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| 028300-0851 | 131110 |
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| 028300-1020 | 131110 |
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| 028300-1384 | 138137 |
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| 028300-1386 | 138137 |
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| 028300-1388 | 138137 |
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| 028300-1390 | 138137 |
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| 028300-1542 | 131110 |
| 028300-1600 | 132004 |
| 028300-1601 | 132004 |
| 028300-1602 | 132004 |
| 028300-1603 | 132004 |
| 028300-1660 | 132634 |
| 028300-1670 | 132545 |
| 028300-1690 | 130441 |
| 028300-1730 | 132942 |
| 028300-1740 | 132545 |
| 028300-1790 | 132004 |
| 028300-1791 | 132004 |
| 028300-1800 | 132004 |
| 028300-1810 | 136315 |
| 028300-1811 | 136315 |
| 028300-1812 | 136315 |
| 028300-1830 | 131090 |
| 028300-1831 | 131090 |
| 028300-1840 | 132863 |
| 028300-1841 | 132863 |
| 028300-1842 | 132863 |
| 028300-1930 | 130442 |
| 028300-1950 | 130442 |



O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| 028300-1951 | 130442 |
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| 028300-1971 | 138681 |
| 028300-2000 | 132004 |
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| 028300-2012 | 132942 |
| 028300-2040 | 138566 |
| 028300-2070 | 132942 |
| 028300-2081 | 134806 |
| 028300-2081 | 134806Z |
| 028300-2110 | 132004 |
| 028300-2111 | 132004 |
| 028300-2200 | 132864 |
| 028300-2220 | 134806 |
| 028300-2220 | 134806Z |
| 028300-2222 | 134806 |
| 028300-2222 | 134806Z |
| 028300-2240 | 130442 |
| 028300-2270 | 132004 |
| 028300-3340 | 135002 |
| 028300-3350 | 130442 |
| 028300-3351 | 130441 |
| 028300-3460 | 135445 |
| 028300-3490 | 130442 |
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| 028300-3571 | 133631 |
| 028300-3590 | 138137 |
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| 028300-3690 | 333753 |
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| 028300-3691 | 333753 |
| 028300-3710 | 130442 |
| 028300-3750 | 130442 |
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| 028403-0139 | 140330 |
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| 028510-0640 | 132873 |
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| 028510-5360 | 137955 |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| 618691 | USX91-922 |
| 618692 | USX91-922 |
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| 680549 | USX50-512 |
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| 681438 | 131797 |
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| 683427 | 133121 |
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| 68412 | 140040 |
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O.E.M. names and numbers are used for reference purposes only.

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| USX50-512 | US51 |
| USX50-514 | US50 |
| USX50-514 | US51 |
| USX73-852 | US73/0 |
| USX91-922 | US91/0 |
| USX91-922 | US92/0 |
| USX93-942/1 | US94/0 |
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| 00460 | 138927 |
| 00461 | 138927 |
| 00593 | 131444 |
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| 01361 | 138927 |
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| 04117 | 190510 |
| 04143 | 138927 |
| 04197 | 138927 |
| 05880 | 130281 |
| 06190 | 130317 |
| 06190 | 333732 |
| 06548 | 130332 |
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| 06780 | 130297 |
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| 07950 | 130282 |
| 08295 | 130296 |
| 08440 | 130300 |
| 08640 | 130299 |
| 08642 | 131449 |
| 08643 | 131450 |
| 09185 | 130293 |
| 09200 | 140110 |
| 09203 | 140109 |
| 09351 | 138927 |
| 09400 | 130373 |
| 09453 | 131499 |
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| 11400 | 130477 |
| 11586 | 131185 |
| 11586 | 333293 |
| 11601 | 141064 |
| 11850 | 131184 |
| 12310 | 131790 |
| 12320 | 131053 |
| 12320 | 333143 |
| 12490 | 131141 |
| 12490 | 333144 |
| 12670 | 131370 |
| 12680 | 131371 |
| 12680 | 333156 |
| 12690 | 333152 |
| 12690 | 131372Z |
| 12700 | 333153 |
| 12700 | 131373Z |
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| 36505 | 131253 |
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| 36630 | 130492 |
| 72006 | 138927 |
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| 85222 | 140198 |
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| 10627 | 138332 |
| 10631 | 131429 |
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| 10633 | 133545 |
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| 10640 | 131481 |
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| 480168 | 133864 |
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| 480216 | 130535 |
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| 480320 | 131768 |
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| 13784-59 | JSX134 |
| 13784-68 | JSX52 |
| 13784-7 | JSX134 |
| 13784-83 | BSX444 |
| 13784-84 | FESX25-262 |
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| 17061-25 | 131064 |
| 17061-26 | 131716 |
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| 17061-3 | 130737 |
| 17061-8 | 130730 |
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| 4059435 | 130735 |
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| 4073396 | 140211 |
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| 4114431 | 140048 |
| 4114432 | JSX162 |
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| 4141358 | 134643 |
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| 4475182 | 130370 |



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| 832220401 | JSX33-344 |
| 832220411 | JS33 |
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| 850208 | 140065 |
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| 9929080 | MASX15-164 |
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**FORD US ↪ FORD**

**FORD**

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| 1SU11000AD | 239804 |
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| 81AB11390BA | 137720 |
| 82GB11037AB | 135777 |
| 83BB11005BA | 130115 |
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O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| MS519 | 132742 |
| N807790S36B | 230795 |
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| SB348 | 136635 |
| SB353 | 136635 |
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| SB417 | 132917 |
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| SBE351 | 231460 |
| SD152 | 130535 |
| SD164 | 130535 |
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| SD176 | 130535 |
| SD180 | 131770 |
| SD302 | 130535 |
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| SD320 | 132751 |
| SD327 | 231962 |
| SD337 | 136633 |
| SD340 | 231961 |
| SD341 | 231960 |
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| SD357 | 136633 |
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| SDE334 | 134918 |
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| SM482 | 231138 |
| SW03 | 130493 |
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| SW1864 | 131590 |
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| SW5203 | 231178 |
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**GENERAL MOTOR**

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| SW80-753PEE | 138685 |

**HINO**

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| 28150-1452 | 136523 |
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| 28180-1250 | 136174 |
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**HITACHI**

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O.E.M. names and numbers are used for reference purposes only.

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| 2114-63121 | 140786 |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| 31210-P13-904 | 234159 |
| 31210-P2A-004 | 234160 |
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| 31210-P2C-004 | 234160 |
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| 31210-P2C-J61 | 232003 |
| 31210-P2J-J61 | 232003 |
| 31210-P30-005 | 234162 |
| 31210-P5M-004 | 234161 |
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| 31210-PT0-01 | 137023 |
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| 31210-PAA-A02 | 232004 |
| 31211-PC2-661 | 136887 |
| 31211-PH9-004 | 140602 |
| 31212-PH9-004 | 133810 |
| 31213-ZE2-0030 | 139455 |
| 31215-634-005 | 140336 |
| 31215-657-006 | 135127 |
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| 31215-ZA1-013 | 140566 |
| 31215-ZE2-0030 | 140570 |
| 31216-634-005 | 140336 |
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| 31219-ZE2-003 | 133710 |
| 31220-P5A-005 | 231983 |
| 31220-PY3-024 | 231983 |
| 31231-671-0050 | 133332 |
| 31231-PA0-060 | 140363 |
| 31231-PD4-0050 | 133333 |
| 31231-PH9-004 | 133808 |
| 31231-ZE2-0030 | 133709 |
| 31232-PA0-006 | 136713 |
| 31233-ZE2-0030 | 133708 |
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| 31235-PE1-6720 | 233083 |
| 31235-PR4-A010M | 233083 |
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| 35850-KBB-900 | 234860 |
| 35850-KW1-900 | 235595 |
| 35850-MCG-00 | 235594 |
| 35851-KBB-900 | 235593 |
| 35851-MF5-751 | 235595 |
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| 35860-KGA-940 | 235595 |
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| F-232542 | 140242 |
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| F-235208.02 | 142001 |
| F-91916 | 140198 |
| FC66624 | 140242 |
| HK1012 | 141001 |
| NK10/12TN | 140903 |
| SCB1210B | 140717 |
| SCE1012 | 141015 |
| SCE116 | 140920 |
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**ISKRA**

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| 11.250.187 | 333669 |
| 11.900.057 | 132906 |
| 11.902.808 | 333908 |
| 11.911.910 | 333989 |
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| 15.100.154 | 131167 |
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O.E.M. names and numbers are used for reference purposes only.

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| 16.360.333 | 130120 |
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O.E.M. names and numbers are used for reference purposes only.

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| FBH-34 | 140312 |
| FBH-38 | 140313 |
| FBH-4 | 140314 |
| FBH-41 | 140489 |
| FBH-5 | 140315 |
| FBH-6 | 140316 |
| FBH-7 | 140317 |
| FBH-8 | 140318 |
| FBM-10 | 140319 |
| FBM-16 | 140320 |
| FBM-16B | 140320 |
| FBM-16RF | 140466 |
| FBM-18 | 140321 |
| FBM-27 | 133390 |
| FBM-28 | 140322 |
| FBM-32 | 140323 |
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| JASX15-6 | 140340 |
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| JASX24-25 | 140841 |
| JASX26-27 | 141023 |
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| JASX32-33 | 140341 |
| JASX34-30 | 140597 |
| JASX35 | 140393 |
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| JASX39 | 140602 |
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| 36120-21740 | 133288 |
| 36120-32510 | 133289 |
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| 14278-63521 | 231213 |
| 15061-63042 | 139037 |
| 15231-63032 | 230895 |
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| 15425-63081 | 135102 |



O.E.M. names and numbers are used for reference purposes only.

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| 74977 | 131768 |
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O.E.M. names and numbers are used for reference purposes only.

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| 72159801 | 132821 |
| 72161301 | MASX25-264 |
| 72161302 | MASX25-264 |
| 72161303 | MASX27-284 |
| 72161304 | MASX27-284 |
| 72161601 | 133030 |
| 72162401 | MASX21-224 |
| 72162402 | MASX21-224 |
| 72162403 | MASX23-244 |
| 72162404 | MASX23-244 |
| 72162601 | 133955 |
| 72163201 | 131470 |
| 72163701 | 131472 |
| 72163901 | 136223 |
| 72163902 | 136975 |
| 72163903 | 136163 |
| 72163904 | 136163 |
| 72163906 | 136974 |
| 72164101 | 135604 |
| 72164102 | 135242 |
| 72164701 | 134041 |
| 72165001 | 134670 |
| 72165701 | 133595 |
| 72165901 | 131473 |
| 72166001 | 131474 |
| 72169501 | 133955 |
| 72294601 | 130328 |
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| 72313962 | 136974 |
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| 72362601 | 136734 |
| 72362910 | 140202 |
| 72362910 | B140202 |
| 72363110 | 135770 |
| 72363201 | MASX13-144 |
| 72363201/02 | MASX13-144 |
| 72363202 | MASX13-144 |
| 72363203/04 | MASX15-164 |
| 72363205/06 | MASX15-164 |
| 72363207 | MASX15-164 |



O.E.M. names and numbers are used for reference purposes only.

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| 72378301 | 133970 |
| 72378801 | 130946 |
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| 72382301 | 131670 |
| 72383701/02 | MASX17-184 |
| 72383703/04 | MASX19-204 |
| 72383705/06 | MASX19-204 |
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| 72386803 | 130386 |
| 72388401 | 137025 |
| 72392104 | 139131 |
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| 72399501 | 130946 |
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| 74350433 | 131747 |
| 74372530 | 130417 |
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| 74705810 | 140065 |
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| 74826710 | 140110 |
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| 74846001 | JSX194 |
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| 74860380 | B140047 |
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| 74866481 | 130369 |
| 74866521 | 130370 |
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| 74867931 | 130735 |
| 74868171 | JSX52 |
| 74868181 | JSX162 |
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| 74871431 | 130739 |
| 74874241 | 130738 |
| 74874701 | JSX134 |
| 74874761 | 130370 |
| 74876851 | 130737 |
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| 74880941 | JSX21-22 |
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| 74881121 | JSX21-22 |
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| 74881280 | 131784 |
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| 74885011 | 134044 |
| 74885041 | 134653 |
| 74885111 | 132186 |
| 74886131 | 131716 |
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| 74887061 | 131716 |
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| 74887901 | JSX23-24-28 |
| 74887911 | JSX23-24-28 |
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| 74891161 | 132188 |
| 74891260 | JSX23-24-28 |
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| 74892151 | 131132 |
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| 79035321 | 139131 |
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| 79036685 | 131115 |
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| 82368225 | 333147 |
| 83220031 | 133567 |
| 83220461 | 135565 |
| 83220991 | 136143 |
| 83221161 | 136206 |
| 83221191 | JSX35-364 |
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| 83221241 | 136204 |
| 83221531 | 134859 |
| 83221541 | 134859 |
| 83221651 | 136143 |
| 83221681 | JSX35-374 |
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| 83222681 | 135565 |
| 83223311 | 136143 |
| 83224461 | 136204 |
| 83224481 | JSX38-39-403 |
| 83225127 | 135620 |
| 83225135 | 138556 |
| 83225146 | 138536 |
| 83225266 | JSX38-412 |
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| 83225326 | 138534 |
| 83225359 | 136204 |
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| 83225386 | 136206 |
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| 83225702 | 235469 |
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| 83225822 | JSX43-45-444 |
| 83225823 | JSX43-45-444 |
| 83225824 | JSX43-45-444 |
| 83225846 | 235304 |
| 83225886 | 138535 |
| 83225937 | 234093 |
| 83225970 | 138556 |
| 83226116 | 235304 |
| 83226148 | JSX40-46-474 |
| 83226189 | JSX40-46-474 |
| 83226216 | 136204 |
| 83226316 | 231159 |
| 83226336 | 139627 |
| 83226348 | 138536 |
| 83226407 | 231899 |
| 83226437 | 235122 |
| 83226536 | 135620 |
| 83226564 | 139625 |
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| 83226699 | 138556 |
| 83226713 | 235301 |
| 83226811 | 135620 |
| 83226888 | 139629 |
| 83226889 | 231941 |
| 83226919 | JSX52 |
| 83226920 | JSX52 |
| 83227000 | 139628 |
| 83227126 | 138526 |
| 83227131 | 135565 |
| 83227226 | 135565 |
| 83227257 | JS33 |
| 83227257 | JS34 |
| 83227257 | JSX33-344 |
| 83227258 | JS33 |
| 83227258 | JS34 |
| 83227258 | JSX33-344 |
| 83227260 | 135565 |
| 83227357 | JSX51-52-634 |
| 83227362 | JSX51-522 |
| 83227364 | JSX51-52-593 |
| 83227370 | JSX51-52-593 |
| 83227383 | JSX61-62-634 |
| 83227490 | JSX38-39-403 |
| 83227491 | JSX38-39-403 |
| 83227502 | 230805 |
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| 83227678 | 135620 |
| 85511103 | 138444 |
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| 85530010 | 132227 |
| 85530220 | 230325 |
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| 85540001 | 132228 |
| 85540011 | 131112 |
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| 85540441 | 132820 |
| 85540451 | 132818 |
| 85540451 | 132818Z |
| 85540461 | 134862 |
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| 85540473 | 133566 |
| 85540481 | 132187 |
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| 85540922 | 139104 |
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| 85540981 | 137190 |
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| 85541010 | 230809 |
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| 85541040 | 134364 |
| 85541060 | 138522 |
| 85541100 | 138865 |
| 85541110 | 231806 |



O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| **MAGNETI MARELLI** *Continued* | |
| 85541111 | 231806 |
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| 85541260 | 230809 |
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| 85541290 | 138791 |
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| 85541300 | 333868 |
| 85541303 | 135711 |
| 85541320 | 133531 |
| 85541322 | 133531 |
| 85541323 | 134888 |
| 85541325 | 133531 |
| 85541333 | LASX364 |
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| 85541350 | 231479 |
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| 85541459 | 132852 |
| 85541462 | 132285 |
| 85541465 | 139032 |
| 85541466 | 132285 |
| 85541468 | 139032 |
| 85541470 | 133683 |
| 85541472 | 138351 |
| 85541475 | 135764 |
| 85541476 | LASX314 |
| 85541479 | 130452 |
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| 85541483 | 136878 |
| 85541488 | 132586 |
| 85541490 | 130452 |
| 85541490 | 130452Z |
| 85541496 | 131728 |
| 85541503 | 135711 |
| 85541538 | 131729 |
| 85541541 | 131728 |
| 85541544 | 132586 |
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| 99339837 | 333855 |
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| IE36A | 130830 |
| IE38AAA | 131112 |
| IE39AAA | 131115 |
| JS25 | JS25 |
| JSX134 | JS13 |
| JSX134 | JS13/0 |
| JSX162 | JS16 |
| JSX162 | JS16/0 |
| JSX21-22 | JS21 |
| JSX21-22 | JS22 |
| JSX52 | JS5 |
| JSX52 | JS5/0 |
| MASX17-184 | MAS17 |

**MAGNETON (PAL/SKODA)**

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| 0157561 | 133412 |
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| 0158411 | 133411 |
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| 315817120910 | 138606 |
| 316116119950 | 135772 |
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| 323125527131 | 140756 |
| 323125527131 | B140756 |
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| 323622641703 | 140756 |
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| 323662642933 | 140691 |
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| 334174503246 | PLSX34 |
| 344112021 | PLSX34 |
| 344112027 | PLSX44 |
| 344122021 | PLSX34 |
| 344154113246 | PLSX34 |
| 344154123387 | PLSX44 |
| 344174143386 | PLSX44 |
| 344174503246 | PLSX34 |
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| 932232 | PLSX44 |
| PLSX24 | PLSX24 |
| PLSX34 | PLS3 |
| PLSX54 | PLSX54 |

**MAHLE ↪ ISKRA**

**MANDO MALROE ↪ VALEO**

**MAZDA**

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| 0135-18-445A | 140345 |
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| 0221-23-786 | 130814 |
| 0222-24-722 | 130741 |
| 0222-24-740 | 231502 |
| 0222-24-741 | 140321 |
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| 0290-24-830 | 131110 |
| 0290-24-841A | 140326 |
| 0324-18-400A | 140320 |
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| 0342-24-760 | 133052 |
| 0426-24-712A | 134949 |
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| 0426-24-753 | 140347 |
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| 0603-23-643 | 140391 |
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| 0820-24-707 | 140321 |
| 0839-24-736B | 132470 |
| 0839-24-753 | 140386 |
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| 1345-24-716 | 139883 |
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| 1363-24-736 | 132470 |
| 1372-24-736 | 136344 |
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| 1757-24-760 | 131802 |
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| 4840-24-709 | 139585 |
| 4840-24-730A | 231314 |
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| 4872-24-736 | 234545 |
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| 4894-24-715 | 140322 |
| 8088-24-722 | 131087 |
| 8218-24-760 | 132095 |
| 8599-24-736 | 132473 |
| 8599-24-740 | 134966 |
| 8599-24-741 | 137545 |
| 8599-24-746 | 138565 |
| 8599-24-750 | 140387 |
| 8599-24-752 | 233868 |
| 8872-24-736 | 131802 |
| 8937-24-760 | 133049 |
| AM15-18-X10 | 138013 |
| AM15-18-X25 | 132011 |
| B301-18-X45 | 134918 |
| B303-18-X00 | 136753 |
| B630-18-X00A | 136753 |
| B630-18-X45 | 132005 |
| B630-18-X65 | 136135 |
| B660-18-X65 | 136135 |
| B6AZ-11-450A | 130493 |
| B6S8-18-X10 | 133288 |
| BPD4-18-X05 | 135468 |
| BPD4-18-X60 | 139398 |
| BPD4-18-X66 | 140966 |
| E301-18-720 | 134737 |
| E301-24-701 | 136099 |
| E301-24-730 | 135571 |
| E301-24-753 | 140349 |
| E356-18-X00A | 136753 |
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| E356-18-X30 | 134952 |
| E356-18-X45 | 132005 |
| E356-18-X60 | 134736 |
| E356-18-X70 | 135467 |
| E356-18-X80 | 231000 |
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| E356-18-X95 | 139203 |
| E357-18-X00 | 136753 |
| E357-18-X65 | 136135 |
| E501-24-753 | 140349 |
| F210-18-X01 | 140738 |
| F210-18-X65 | 136135 |
| F210-18-X70 | 135467 |
| F214-18-X25 | 132012 |
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| F2D4-18-X66 | 140966 |
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| F850-24-710B | 234706 |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| **NISSAN** | |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| 23383-0M301 | 137934 |
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| 191-1443 | 137739 |
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O.E.M. names and numbers are used for reference purposes only.

**REMY (DELCO)** *Continued*

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| 28125-41020 | 141238 |
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| 31131-75011 | 140356 |
| 31132-44110 | 133715 |
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O.E.M. names and numbers are used for reference purposes only.

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| 44-6676 | 133605 |
| 44-6681 | 133605 |
| 44-964 | 231975 |
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| 903-2RS | 140225 |
| 904-2RS | 140226 |
| 906-2RS | 140868 |
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| AM-4302 | 131350 |
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O.E.M. names and numbers are used for reference purposes only.

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| M-0115 | 136894 |
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| P-610303 | 231489 |
| P-610315 | 231287 |
| P-610322 | 231286 |
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**UNITED TECHNOLOGIES**

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| 0145640CP30SM | 136655 |
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| 1127040CP30SM | 136660 |
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| 1385540AT30SM | 234213 |
| 1637540DV30SM | 135401 |
| 1693240CP30SM | 136655 |
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| 1819740CP30SM | 231004 |
| 1820040DV30SM | 135408 |
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| 1890040 | 231162 |
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| 2071640CP30SM | 136655 |
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| CP551406A | 136660 |



O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| **UNITED TECHNOLOGIES** *Continued* | |
| CP551406AS | 136660 |
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| DV551067AS | 135409 |
| DV551092A | 135410 |
| DV551092AS | 135410 |
| DV70104 | 135402 |
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| 053770 | 130757 |
| 054174 | 235086 |
| 054335 | 235087 |
| 055105 | 130456 |
| 055330 | 140680 |
| 055330 | B140680 |
| 055578 | 136431 |
| 056328 | 136426 |
| 059058 | 130461 |
| 059305 | 133442 |
| 059390 | 131343 |
| 059427 | 139478 |
| 059453 | 231717 |
| 059454 | 136671 |
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| 068763 | 140667 |
| 070672 | 130456 |
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| 071381 | B140670 |
| 071437 | 140669 |
| 071437 | B140669 |
| 072101 | 140066 |
| 072101 | B140066 |
| 072175 | 138646 |
| 072591 | PSX64-702 |
| 072595 | PSX54-692 |
| 072619 | PSX77-784 |
| 072630 | PSX83-844 |
| 072631 | PSX81-824 |
| 072632 | PSX77-784 |
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| 073302 | 131071 |
| 073315 | 137289 |
| 073684 | 130461 |
| 074077 | 136428 |
| 074322 | 140680 |
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| 074653 | 136427 |
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| 074658 | 136426 |
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| 074952 | 140119 |
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| 074981 | 139588 |
| 075093 | PSX81-824 |
| 075162 | 130461 |
| 075165 | 130461 |
| 075238 | USX682 |
| 075269 | PSX115-1162 |
| 075289 | 140683 |
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| 075371 | 137291 |
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| 076651 | 130432 |
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| 076980 | 130759 |
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| 077526 | 138140 |
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| 078039 | B140501 |
| 078166 | PSX106-1072 |
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| 079243 | 139380 |
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| 092744 | PSX1254 |
| 092878 | PSX1292/1P |
| 092883 | PSX1304 |
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| 092925 | PSX1324 |
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| 093079 | 133442 |
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| 099741 | 131190 |
| 099745 | 133167 |
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| 099931 | 131111 |
| 099932 | 133128 |
| 100111 | 131798 |
| 100187 | 131798 |
| 100234 | 231849 |
| 100462 | 132025 |
| 101061 | 131127 |
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| 101292 | 132175 |
| 101581 | 131813 |
| 101598 | 132962 |
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| 101910 | 137271 |
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| 104604 | 133163 |
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| 106140 | 132181 |
| 106142 | 133533 |
| 106143 | 133533 |
| 108458 | 133166 |
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| 140496 | B140496 |
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| 140734 | B140734 |
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| 180754 | 133233 |
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| 180827 | 133897 |
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| 181069 | 132025 |
| 181084 | 133077 |
| 181142 | 132968 |
| 181277 | 132021 |
| 181404 | 132024 |
| 181804 | 131111 |
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| 182036 | 138112 |
| 182037 | PSX152-1538 |
| 182038 | 138645 |
| 182041 | 135645 |
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| 182048 | 132029 |
| 182049 | 132027 |
| 182050 | 231117 |
| 182051 | 136320 |
| 182052 | 230253 |
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| 182058 | 136620 |
| 182060 | 136227 |
| 182061 | 140531 |
| 182063 | 140533 |
| 182064 | PSX115-1162 |
| 182065 | PSX1292/1P |
| 182066 | PSX1332 |
| 182067 | PSX1332 |
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| 182069 | PSX54-692 |
| 182070 | PSX119-1202 |
| 182072 | PSX106-1072 |
| 182073 | PSX122-123-124 |
| 182096 | 140536 |
| 182112 | PSX77-784 |
| 182114 | PSX81-824 |
| 182115 | PSX81-824 |
| 182118 | PSX1324 |
| 182132 | PSX83-844 |
| 182136 | 140537 |
| 182138 | 140539 |



O.E.M. names and numbers are used for reference purposes only.

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| 182153 | PSX83-844 |
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| 182155 | 138649 |
| 182156 | 132971 |
| 182157 | 140472 |
| 182158 | 140473 |
| 182159 | 139535 |
| 182160 | 138647 |
| 182163 | 132972 |
| 182175 | 132027 |
| 182176 | 133897 |
| 182177 | 132021 |
| 182177 | 231204 |
| 182178 | 133336 |
| 182194 | USX64-652 |
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| 182201 | 133167 |
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| 182848 | 139477 |
| 183412 | 134292 |
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| 183957 | 133647 |
| 184194 | 135282 |
| 184448 | 132974 |
| 184488 | 132975 |
| 184530 | 133897 |
| 184630 | 138642 |
| 184671 | 138408 |
| 184795 | 139318 |
| 184799 | 231667 |
| 185182 | 131999 |
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| 185457 | 137455 |
| 185744 | 231667 |
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| 186321 | 139905 |
| 186381 | 133647 |
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| 186456 | 133897 |
| 186867 | 135647 |
| 186938 | 135647 |
| 187077 | 138113 |
| 187084 | 234088 |
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| 187336 | 139473 |
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| 187449 | 231413 |
| 187528 | 139478 |
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| 187778 | PSX142-1444 |
| 187779 | PSX142-1444 |
| 187788 | 139477 |
| 187863 | 139473 |
| 187888 | PSX1564 |
| 187983 | 230354 |
| 187996 | 139473 |
| 188251 | 139473 |
| 188256 | 135084 |
| 188440 | 239359 |
| 188571 | PS145 |
| 188595 | 234086 |
| 188993 | 231932 |
| 188993 | 333863 |
| 190097 | 234119 |
| 190986 | PSX160-1644 |
| 190987 | 239731 |
| 190993 | 239359 |
| 191060 | PSX160-1644 |
| 191601 | 236797 |
| 191601 | 333870 |
| 191769 | 239359 |
| 191771 | PSX166-1674 |
| 191772 | PS169B |
| 191772 | PS170B |
| 191772 | PSX169-1704 |
| 191773 | PS169B |
| 191773 | PS170B |
| 191773 | PSX169-1704 |
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| 191849 | PSX166-1674 |
| 192053 | 132028 |
| 192285 | PSX168-1674 |
| 192405 | 192405 |
| 192651 | 237776 |
| 192750 | 332207 |
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| 193288 | 239731 |
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| 194372 | 332614 |
| 194440 | 330533 |
| 194480 | 330533 |
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| 195253 | 333317 |
| 195334 | 333934 |
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| 198159 | 333929 |
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| 300687 | PSX1304 |
| 300706 | PSX133K2 |
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| 549185 | 135389 |
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| 589053 | 133442 |
| 589074 | 132962 |
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| 594063 | PSX144-145K |
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| 594115 | 135392 |
| 594117 | 132977 |
| 594118 | 135390 |
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| 594169 | PSX148-159K |
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| 594381 | 231841 |
| 594382 | 234086 |
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O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| 595731 | 238193 |
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| 618481 | USX682 |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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| O.E. No. | HC-CARGO |
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| **WAI** *Continued* | |
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| 68-114 | RX122H4 |
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| 68-115 | RX1246 |
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| 68-116-3 | RX9212 |
| 68-117 | RX124H6 |
| 68-117-3 | RX124H6 |
| 68-124 | RX664 |
| 68-126 | RX1214 |
| 68-127 | RX1074 |
| 68-129 | RX1354 |
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| 68-130 | RX135H4 |
| 68-130-3 | RX135H4 |
| 68-139 | 140755 |
| 68-140 | 141045 |
| 68-140-1 | 141045 |
| 68-142 | 140943 |
| 68-142-1 | 140943 |
| 68-142-2 | 140943 |
| 68-142-3 | 140943 |
| 68-146-3 | 232984 |
| 68-149 | 141242 |
| 68-203 | FX412/1P |
| 68-204 | FX412/1P |
| 68-204-3 | FX412/1P |
| 68-205 | FX412/1P |
| 68-205-1 | FX412/1P |
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| 68-207 | 140548 |
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| 68-208 | 140548 |
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| 68-217 | 140845 |
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| 68-301 | CHX101P |
| 68-301-1 | CHX101P |
| 68-301-3 | CHX101P |
| 68-620 | EX85-862/1 |
| 68-621 | EX85-862/1 |
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| 68-7800-3 | 140714 |
| 68-7801 | 141053 |



O.E.M. names and numbers are used for reference purposes only.

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| 68-9101 | BSX124 |
| 68-9102 | BSX494 |
| 68-9103 | BSX434 |
| 68-9105 | BSX1024 |
| 68-9108 | BSX1044 |
| 68-9108-2 | BSX1044 |
| 68-9109 | BSX1044 |
| 68-9109-2 | BSX1042 |
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| 68-9110-1 | BSX137-1434 |
| 68-9111 | BSX137-1434 |
| 68-9113 | BSX134-1444 |
| 68-9113-3 | BSX134-1444 |
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| 68-9116 | BSX964 |
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| 68-9116-3 | BSX964 |
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| 68-9118 | BSX1314 |
| 68-9120 | BSX704 |
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| 68-9124 | 142326 |
| 68-9124 | BSX135-1454 |
| 68-9125 | 142340 |
| 68-9125 | BSX764 |
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| 68-9126 | 142334 |
| 68-9126 | BSX151S4 |
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| 68-9126-2 | 142334 |
| 68-9126-2 | BSX151S4 |
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| 68-9132 | BS158 |
| 68-9133 | BSX138-1424 |
| 68-9134 | BSX444 |
| 68-9135 | BSX1474 |
| 68-9136 | BSX1484 |
| 68-9138 | 141008 |
| 68-9139 | 134658 |
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| 68-9140 | 134658 |
| 68-9140 | 333296 |
| 68-9140-3 | 134658 |
| 68-9140-3 | 333296 |
| 68-9142 | BSX134-1444 |
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| 68-9143 | 333286 |
| 68-9143-3 | 136557 |
| 68-9143-3 | 333286 |
| 68-9144 | 135015 |
| 68-9144 | 333287 |
| 68-9144-3 | 135015 |
| 68-9144-3 | 333287 |
| 68-9145 | 135015 |
| 68-9145 | 333287 |
| 68-9146 | BSX163-1644 |
| 68-9147 | BSX163-1644 |
| 68-9147-3 | BSX163-1644 |
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| 68-9201 | LASX37-38-39 |
| 68-9202 | LASX22 |
| 68-9203 | LASX73-412/1P |
| 68-9204 | LASX73-412/1P |
| 68-9206 | LASX364 |
| 68-9207 | LASX314 |
| 68-9208 | LASX15-274 |
| 68-9209 | LASX15-274 |
| 68-9210 | LASX5-62/1P |
| 68-9211 | LASX5-62/1P |
| 68-9212 | LASX5-62/1P |
| 68-9300 | JSX134 |
| 68-9301 | JSX162 |
| 68-9302 | JSX204 |
| 68-9303 | MASX13-144 |
| 68-9306 | JSX52 |
| 68-9307 | MASX17-184 |
| 68-9403 | USX91-922 |
| 68-9404 | USX91-922 |
| 68-9405 | USX73-852 |
| 68-9406 | USX73-852 |
| 68-9411 | PSX1332 |
| 68-9412 | PSX1332 |
| 68-9413 | PSX1292/1P |
| 68-9414 | PSX1292/1P |
| 68-9419 | PSX136-1374 |
| 68-9420 | PSX136-1374 |
| 68-9421 | PSX81-824 |
| 68-9422 | PSX81-824 |
| 68-9423 | PSX83-844 |
| 68-9424 | PSX83-844 |
| 68-9427 | PSX1324 |
| 68-9429 | PSX81-824 |
| 68-9430 | PSX1324 |
| 68-9431 | PSX1324 |
| 68-94800 | PSX1292/1P |
| 68-95800 | JSX162 |
| 68-95801 | IKSX2-32 |
| 68-9900 | 140465 |
| 6-902-2 | 140224 |
| 6-902-2W | 140224 |



O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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| **WAI** *Continued* | |
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| 6-903-4W | 140225 |
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| 6-904-4W | 140226 |
| 6-905-4 | 140227 |
| 6-906-4 | 140868 |
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| 76-1305 | 132726 |
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O.E.M. names and numbers are used for reference purposes only.

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| 129900-77520 | 233887 |
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| 139698-77220 | 138958 |
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| 0036 | 131714 |
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| 0087 | 130539 |
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| 0108 | 130396 |
| 0110 | 130539 |
| 0110 | 130539Z |
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| 0118 | 135801 |
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| 0135 | 133864 |
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| 0144 | 130741 |
| 0182 | 131770 |
| 0184 | 131110 |
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| 0218 | 333173 |
| 0218 | 130419Z |
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| 0227 | 131713 |
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| 0315 | 131381 |
| 0318 | 132364 |
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| 0320 | 130930 |
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| 0323 | 130404 |
| 0325 | 130393 |
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| 0367 | 131065 |
| 0378 | 131271 |
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| 0392 | 131270 |
| 0395 | 132187 |
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| 0404 | 131021 |
| 0406 | 131432 |
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O.E.M. names and numbers are used for reference purposes only.

| O.E. No. | HC-CARGO |
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O.E.M. names and numbers are used for reference purposes only.

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O.E.M. names and numbers are used for reference purposes only.

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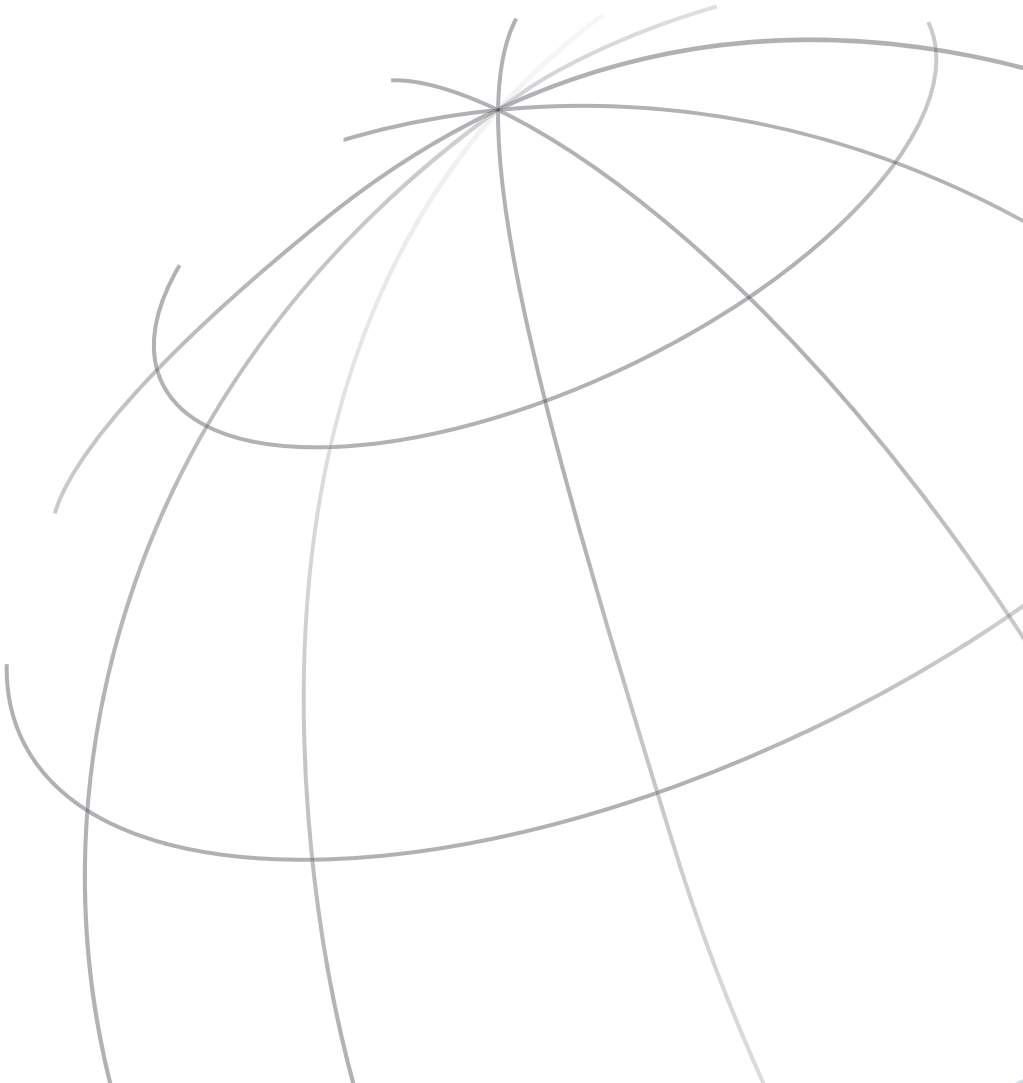

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