

NDC® ENGINE BEARINGS

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Technical updated information available upon request.

ENGINE SHOP MANUAL

Dimensions mm.
Maximum / Minimum Tolerances
Maximum Housing Bore
Maximum Shaft Diameter
Maximum Bearing Wall Thickness
Maximum Bearing Length
Oil Clearance
Torque m.kg
OEM Std Size Number

IMPORTANT NOTICE

THE PURPOSE OF THIS CATALOG IS TO FURNISH OUR CUSTOMERS WITH AS A COMPLETE A LISTING OF
THEIR PARTS REQUIREMENTS AS POSSIBLE.
ALL LISTINGS, APPLICATIONS, AND INTERCHANGES HAVE BEEN COMPILED AS CAREFULLY AS POSSIBLE
WITH ALL AVAILABLE INFORMATION; WE CANNOT ASSUME ANY RESPONSIBILITY FOR POSSIBLE
ERRORS IN LISTINGS, APPLICATIONS, OR INTERCHANGE.
ALL REFERENCES TO ORIGINAL MANUFACTURER'S TRADE NAMES AND PART NUMBERS ARE FOR IDENTIFICATION
ONLY. THIS CATALOG SUPERSEDS ALL PREVIOUS CATALOGS AND LISTINGS.

NDC ENGINE BEARINGS

ENGINE MANUFACTURER

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IMPORTANT NOTICE

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DAEWOO

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM Std Set Number |
|--|-------------------------------|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| TICO 3 cyl | TW-2403A (90-ON) | T.W. No.3 | (I.D.)52.0 | (O.D.)68.0 | 2.520 | 18.00 | 0.018-0.064 | 2.8-3.2 | 12340-82820 |
| | CB-2401A (90-ON) | C.R. 1-6 | 38.000 | 41.018 | 1.493 | | | | 12181-A81051 |
| | MS-2406A (90-ON) | | | | | | | | |

DAIHATSU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM Std Set Number | |
|---|--|----------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| AB 2 cyl. 71.6 x 68 547cc AD 2 cyl. 76 x 88 617cc | MS-2500A (AB 76-84) (AD 74-82) MS-2506A (AB 84-86) | Main 1-3 | 41.990 | 46.024 | 1.990 | 19.50 | 0.030-0.064 | 5.4-6.6 | 11702-87701 | |
| | | Main 1-3 | 41.990 | 46.024 | 1.990 | 19.50 | 0.030-0.064 | 5.4-6.6 | 11702-87711 | |
| | TW-2500A (ALL 76-86) CB-2500A (ALL 76-86) BB-2500A (ALL 76-86) | T.W. No. 2 | 48.250 | 62.000 | 1.990 | | | | 11011-87701 | |
| | | C.R. 1-2 | 40.000 | 43.000 | 1.490 | 18.00 | 0.020-0.054 | 2.1-2.9 | 13202-87701 | |
| | | B.B. 1 | 44.960 | 48.025 | 1.508 | 17.00 | 0.030-0.086 | | 11902-87701 | |
| | | B.B. 2 | 33.960 | 37.025 | 1.508 | 20.00 | 0.030-0.086 | | | |
| CB 3 cyl. 76 x 73 993cc CD 3 cyl. 76 x 73 993cc CL 3 cyl. 76 x 73 993cc CB-T 3 cyl. 76 x 73 993 cc | MS-2501A (CB,CD,CL 77-84) MS-2505A (ALL 85-ON) | Main 1-4 | 41.990 | 46.024 | 1.990 | 19.50 | 0.030-0.064 | 5.4-6.6 | 11702-87703 | |
| | | Main 1-4 | 41.990 | 46.024 | 1.990 | 19.50 | 0.030-0.064 | 5.4-6.6 | 11702-87710 | |
| | TW-2500A (ALL 77-ON) CB-2501A (CB,CD,CL 77-ON) | T.W. No. 3 | 47.990 | (O.D.)62.0 | 1.990 | | | | 11011-87701 | |
| | | C.R. 1-3 | 40.000 | 43.024 | 1.490 | 18.00 | 0.020-0.054 | 2.1-2.9 | 13202-87703 | |
| | CB-2509A (CB-T 85-ON) BB-2501A (ALL 77-ON) | C.R. 1-3 | 42.970 | 46.020 | 1.494 | 20.10 | 0.020-0.054 | | 13202-87707 | |
| | | B.B. 1 | 44.975 | 48.025 | 1.508 | 17.00 | 0.030-0.086 | | 11902-87702 | |
| | | | B.B. 2 | 33.975 | 37.025 | 1.508 | 20.00 | 0.030-0.086 | | |
| | | | B.B. 2 | 33.975 | 37.025 | 1.508 | 20.00 | 0.030-0.086 | | |
| | DG 4 cyl. 88 x 104 253cc | MS-1158A (78-90) | Main 1.3.5. | 67.970 | 72.019 | 2.002 | 30.00 | 0.040-0.085 | 9.8-11.2 | 11702-87035 |
| | | | 2.4. | 67.970 | 72.019 | 2.002 | 24.00 | 0.040-0.085 | | |
| Δ3(L) | | | 67.970 | 72.019 | 2.002 | 37.90 | 0.040-0.085 | | | |
| TW-1098J (68-77) CB-1158A (68-90) SH-1158A (82-90) | | T.W. No. 3 | (I.D.)76.0 | (O.D.)94.0 | 2.980 | | | | 5113-1394-0 | |
| | | C.R. 1-4 | 54.980 | 58.020 | 1.492 | 27.50 | 0.040-0.085 | 6.5-7.5 | 13202-87035 | |
| PB-1158J (68-90) | | Cam 1 | 45.975 | 50.025 | 2.000 | 23.00 | 0.024-0.099 | | 11802-87380 | |
| | | Cam 2 | 45.675 | 50.025 | 2.150 | 25.00 | 0.024-0.099 | | | |
| | | Cam 3 | 45.375 | 50.025 | 2.300 | 23.00 | 0.024-0.099 | | | |
| | P.B. 1-4 | 26.000 | 29.025 | 1.530 | 30.00 | 0.006-0.030 | | 90043-84018 | | |

DAIHATSU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM Std Set Number |
|--|--|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| DL 4 cyl 92 x 104 2765cc DL-T 4 cyl 92 x 104 2765cc | MS-1158A (82-87) | Main | | | | | | | 11702-87305 |
| | | 1.3.5. | 67.970 | 72.019 | 2.002 | 30.00 | 0.040-0.086 | 9.8-11.2 | |
| | | 2.4. | 67.970 | 72.019 | 2.002 | 24.00 | 0.040-0.086 | | |
| | Δ3(L) | 67.970 | 72.019 | 2.002 | 37.90 | 0.040-0.086 | | | |
| | MS-2502A (87-ON) | Main | | | | | | | 11702-87036 |
| | | 1 (U) | 67.970 | 72.020 | 2.005 | 34.00 | 0.040-0.086 | 9.8-11.2 | |
| | | 2.3.4.5. | 67.970 | 72.020 | 2.005 | 34.00 | 0.040-0.086 | | |
| | 1.2.4.5. | 67.970 | 72.020 | 2.005 | 34.00 | 0.040-0.086 | | | |
| | | | Δ 3(L) | 67.970 | 72.020 | 2.005 | 37.95 | 0.040-0.086 | |
| | CB-1158A (82-ON) SH-1158A (82-87) SH-2502A (87-ON) PB-2502J (82-87) PB-2511J (87-ON) | C.R. | | | | | | | 13202-87305 |
| | | 1-4 | 54.980 | 58.020 | 1.492 | 27.50 | 0.040-0.085 | 6.5-7.5 | |
| | | Cam | | | | | | | |
| | | 1 | 45.975 | 50.025 | 2.000 | 23.00 | 0.024-0.099 | | |
| | | 2 | 45.675 | 50.025 | 2.150 | 25.00 | 0.024-0.099 | | |
| | | 3 | 45.375 | 50.025 | 2.300 | 23.00 | 0.024-0.099 | | |
| Cam | | | | | | | | 11802-81301 | |
| 1 | | 46.575 | 50.620 | 2.000 | 22.00 | | | | |
| 2 | | 46.275 | 50.320 | 2.000 | 18.00 | | | | |
| 3 | | 45.975 | 50.020 | 2.000 | 18.00 | | | | |
| 4 | | 45.675 | 49.720 | 2.000 | 18.00 | | | | |
| 5 | | 45.375 | 50.020 | 2.300 | 22.00 | | | | |
| P.B. | | | | | | | 90043-84057 | | |
| 1-4 | 26.000 | 29.025 | 1.530 | 30.00 | 0.005-0.030 | | | | |
| P.B. | | | | | | | 90043-84086 | | |
| 1-4 | 28.000 | 31.000 | 1.530 | 30.00 | 0.005-0.030 | | | | |
| ED 3 cyl. 66.6 x 81 846cc | MS-2510A (85-ON) | Main | | | | | | 11702-87203 | |
| | | 1-4 | 46.000 | 50.020 | 1.994 | 16.00 | | | |
| | TW-2510A (85-ON) | T.W. | (I.D.)52.25 | (O.D.)63.00 | 1.990 | | | 11011-87202 | |
| CB-2510A (85-ON) | C.B. | | | | | | 11011-87203 | | |
| | 1-3 | 40.00 | 43.000 | 1.994 | 16.00 | | | | |
| HC-E 4 cyl. 76 x 71.4 1296cc HD 4 cyl. 76 x 87.6 1589cc | MS-2511A (88-ON) | Main | | | | | | 11701-87102 | |
| | | 1-5 | 50.000 | 54.000 | 2.002 | 18.10 | 4.0-5.0 | | |
| | TW-2511A (88-ON) | T.W. | (I.D.) 57.2 | (O.D.) 76.4 | 2.490 | | | 11011-87101 | |
| CB-2511A (88-ON) | P.B. | | | | | | 13041-87101 | | |
| | 1-4 | 45.000 | 48.000 | 1.498 | 18.00 | 2.0-2.5 | | | |

HINO

| Engine, cyl. Bore-Stroke Cubic Disp. | NDC SET No. Year Mfr. | Position | Dimension STD Size Max. | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | O.E.M. STD Set Number | |
|---|---|--|-------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|-----------------------------|------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| DM100 6 cyl. 90 x 113 4313cc | MS-1059GP (DM 63-78) (DQ 71-83) | Main | | | | | | | | |
| | | 1.7 | 66.960 | 71.000 | 2.002 | 32.00 | 0.04-0.08 | 10.5-11.0 | 11701-1180 | |
| | | 2.3.5.6. | 66.960 | 71.000 | 2.002 | 23.50 | 0.04-0.08 | | 11701-1190 | |
| | DQ100 6 cyl. 92 x 113 4507cc | TW-1059GP (DM 63-78) (DQ 71-83) | 4 | 66.960 | 71.000 | 2.002 | 36.00 | 0.04-0.08 | | |
| | | | T.W. | (I.D.) | (O.D.) | | | | | 11011-1090 |
| | | No.4 | 73.5 | 91.2 | 2.495 | | | | | |
| | | CB-1059GP (DM 63-78) (DQ 71-83) | C.R. | | | | | | | 13201-1150 |
| | | | 1-6 | 55.950 | 59.000 | 1.509 | 33.63 | 0.04-0.08 | 7.5-8.0 | |
| | | SH-1059B (DM 63-78) (DQ 71-83) | Cam | | | | | | | 3252-1951 |
| | | | 1 | 54.970 | 58.030 | 1.500 | 35.00 | 0.03-0.12 | | 3252-1955 |
| 2 | 53.970 | | 57.030 | 1.500 | 32.00 | 0.03-0.12 | | | | |
| 3 | 53.470 | | 56.530 | 1.500 | 21.50 | 0.03-0.12 | | | | |
| 4 | 52.970 | | 56.030 | 1.500 | 32.00 | 0.03-0.12 | | | | |
| PB-1059J (DM 63-78) (DQ 71-83) | 5 | 45.970 | 49.030 | 1.500 | 29.00 | 0.03-0.12 | | | | |
| | P.B. | | | | | | | 13272-1130 | | |
| 1-6 | 29.000 | 32.025 | 1.540 | 33.90 | 0.02-0.04 | | | | | |
| EB100 6 cyl. 115 x 145 9036cc | MS-1079GP (67-ON) | Main | | | | | | | | |
| | | 1.7 | 94.960 | 101.015 | 2.999 | 44.00 | 0.06-0.12 | 24.0-25.0 | 11701-1150 | |
| | | 2.3.5.6. | 94.960 | 101.015 | 2.999 | 34.00 | 0.06-0.12 | | 11701-1161 | |
| | EB200 6 cyl. 115 x 145 9036cc | TW-1079BC (67-77) | 4 | 94.960 | 101.015 | 2.999 | 64.00 | 0.06-0.12 | | |
| | | | T.W. | (I.D.) | (O.D.) | | | | | 11011-1060 |
| | | No.4 | 101.5 | 130.0 | 4.980 | | | | | |
| | | TW-1120BC (77-ON) | T.W. | (I.D.) | (O.D.) | | | | | 11011-1171 |
| | No.4 | | 101.5 | 130.0 | 4.980 | | | | | |
| | EB300 6 cyl. 120 x 145 9838cc | CB-2100GP (CB-1120GP) (67-ON) | C.R. | | | | | | | 13201-1300 |
| | | | 1-6 | 74.970 | 81.015 | 2.999 | 46.00 | 0.04-0.09 | 16.0-17.0 | |
| SH-1079B (67-ON) | | Cam | | | | | | | 2330-1905 | |
| | | 1 | 63.070 | 68.030 | 2.450 | 50.00 | 0.03-0.10 | | 2330-1909 | |
| | | 2 | 62.770 | 68.030 | 2.600 | 40.00 | 0.03-0.10 | | | |
| | | 3 | 62.370 | 68.030 | 2.800 | 40.00 | 0.03-0.10 | | | |
| EB400 6 cyl. 120 x 145 9839cc | PB-1079J (67-77) | 4 | 62.070 | 68.030 | 2.950 | 40.00 | 0.03-0.10 | | | |
| | | 5 | 61.770 | 68.030 | 3.100 | 36.00 | 0.03-0.10 | | | |
| PB-1120J (77-ON) | P.B. | | | | | | | 13272-1230 | | |
| | 1-6 | 43.000 | 49.025 | 3.040 | 42.25 | 0.03-0.05 | | 13272-1100 | | |
| 1-6 | 45.000 | 51.030 | 3.030 | 44.20 | 0.03-0.05 | | | | | |

HINO

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | |
|---|---|---|--|-----------------|------------------------|--------------|------------------------|---------------------------|--------------------------|------------|------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | |
| EH100 6 cyl. 105 x 113 5871cc | MS-1140GP (72-85) | Main | | | | | | | 11701-2171 | | |
| | | 1.7. | 73.960 | 79.000 | 2.490 | 32.00 | 0.04-0.10 | 11.0-11.5 | | | |
| | EH300 6 cyl. 108 x 113 6211cc | TW-1081GP (72-85) | 2.3.5.6. | 73.960 | 79.000 | 2.490 | 28.00 | 0.04-0.10 | | 11011-1110 | |
| | | | 4 | 73.960 | 79.000 | 2.490 | 35.00 | 0.04-0.10 | | 13201-1180 | |
| | | CB-1165GP (EH100 72-85) | T.W. No.4 | (I.D.) 80.5 | (O.D.) 98.4 | | 2.510 | | | | |
| | | | C.R. 1-6 | 62.960 | 67.000 | 2.000 | 33.50 | 0.03-0.09 | 11.0-13.0 | | 13201-1190 |
| | | CB-1140GP (EH300 74-80) | C.R. 1-6 | 644.960 | 69.000 | 2.000 | 33.60 | 0.03-0.09 | 14.0-16.0 | | 13201-1261 |
| | | | CB-2101GP (EH500 80-83) (EH700 77-83) | C.R. 1-6 | 64.960 | 69.000 | 2.000 | 33.60 | 0.03-0.09 | 16.5-18.5 | |
| | | EH500 6 cyl. 108 x 113 6211cc | SH-1081B (EH100/300 72-85) | Cam | | | | | | | 2380-1905 |
| | | | | 1 | 56.470 | 59.530 | 1.500 | 35.00 | 0.03-0.12 | | 2380-1908 |
| 2 | 54.470 | | | 57.530 | 1.500 | 30.00 | 0.03-0.12 | | | | |
| 3 | 53.870 | | | 56.930 | 1.500 | 30.00 | 0.03-0.12 | | | | |
| EH700 6 cyl. 110 x 113 6443cc | SH-2101A (EH500/700 77-83) | Cam | | | | | | | 11812-1050 | | |
| | | 1 | 61.470 | 64.500 | 1.500 | 35.00 | | | | | |
| | | 2 | 61.270 | 64.300 | 1.500 | 26.00 | | | | | |
| | | 3 | 61.070 | 64.100 | 1.500 | 26.00 | | | | | |
| | | 4 | 60.870 | 63.900 | 1.500 | 26.00 | | | | | |
| | | 5 | 60.670 | 63.700 | 1.500 | 26.00 | | | | | |
| | | 6 | 60.470 | 63.500 | 1.500 | 26.00 | | | | | |
| PB-1139J (EH100 72-85) | P.B. 1-6 | 58.270 | 61.300 | 1.500 | 30.00 | | | | 13271-1030 | | |
| | | 34.000 | 38.025 | 2.040 | 40.00 | 0.02-0.04 | | | | | |
| HO6C 6 cyl. 108 x 118 6485cc | MS-2108GP (84-ON) | Main | | | | | | | 11701-1661 | | |
| | | 1.4.7. | 79.960 | 85.015 | 2.490 | 32.00 | 0.05-0.10 | 14.0-16.0 | | | |
| | HO7C 6 cyl. 110 x 118 6728cc | TW-2108K (84-ON) | 2.3.5.6. | 79.960 | 85.015 | 2.490 | 28.00 | 0.05-0.10 | | 11011-1270 | |
| | | | T.W. NO.4 | (I.D.) 85.0 | (O.D.) 105.0 | | 2.500 | | | | |
| | | SH-2108A (84-ON) | Cam | | | | | | | | |
| | | | 1 | 61.470 | 64.530 | 1.500 | 35.00 | 0.03-0.11 | | | |
| | | | 2 | 61.270 | 64.330 | 1.500 | 26.00 | 0.03-0.11 | | | |
| | | | 3 | 61.070 | 64.130 | 1.500 | 26.00 | 0.03-0.11 | | | |
| | | | 4 | 60.870 | 63.930 | 1.500 | 26.00 | 0.03-0.11 | | | |
| | | | 5 | 60.670 | 63.730 | 1.500 | 26.00 | 0.03-0.11 | | | |
| 6 | 60.470 | | 63.530 | 1.500 | 26.00 | 0.03-0.11 | | | | | |
| PB-2108J (84-ON) | P.B. 1-6 | 60.270 | 61.330 | 2.500 | 30.00 | 0.03-0.11 | | | | | |
| | | 39.000 | 43.025 | 2.000 | (U) 31.00 (L) 39.80 | 0.015-0.040 | | 13272-1270 | | | |

HINO

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. Year Mfr. | Position | Dimension STD Size Max. | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | O.E.M. STD Set Number | |
|--|-----------------------------|--------------|-------------------------|------------------|-------------------|----------------------|------------------------|---------------------------|-----------------------------|--|
| | | | Shaft Dia. | Housing Bore | Wall Thickness | | | | | |
| WO4D 4 cyl. 104 x 118 4009cc | MS-2109GP (83-ON) | Main | 72.960 (I.D.) | 78.000 (O.D.) | 2.490 | 25.00 | 0.04-0.09 | 14.0-16.0 | 11701-1611 | |
| | | 1-5 | | | | | | | 11011-1240 | |
| | TW-2109GP (83-ON) | T.W. No.4 | 82.25 | 98.75 | 2.500 | | | | | |
| | | | | | | | | | | |
| | CB-2109GP (83-ON) | C.R. | 61.960 | 66.000 | 1.995 | 28.00 | 0.03-0.08 | 11.5-13.5 | 13201-1430 | |
| | | 1-4 | | | | | | | | |
| | SH-2109B (83-ON) | Cam | 1 | 56.970 | 60.030 | 1.500 | 27.00 | 0.03-0.12 | 11802-1180 | |
| | | | 2 | 56.770 | 59.830 | 1.500 | 27.00 | 0.03-0.12 | | |
| | | | 3 | 56.570 | 59.630 | 1.500 | 27.00 | 0.03-0.12 | | |
| | PB-2109J (83-ON) | P.B. | 1-4 | 35.000 | 39.025 | 2.040 | (U)30.00 (L)38.00 | 0.02-0.04 | 13272-1280 | |
| | | | | | | | | | | |
| WO6D 6 cyl. 104 x 113 5759cc | MS-2110GP (83-95) | Main | 72.960 | 78.000 | 2.490 | 25.00 | 0.04-0.09 | 14.0-16.0 | 11701-1630 | |
| | | 1-7 | | | | | | | 11011-1280 | |
| | TW-2109GP (83-95) | T.W. No.4 | 82.25 | 98.75 | 2.500 | | | | | |
| | | | | | | | | | | |
| | CB-2110GP (83-95) | C.R. | 61.960 | 66.000 | 1.995 | 28.00 | 0.03-0.08 | 11.5-13.5 | 13201-1450 | |
| | | 1-6 | | | | | | | | |
| | SH-2110B (83-95) | Cam | 1 | 56.970 | 60.030 | 1.500 | 27.00 | 0.03-0.12 | 11802-1120 | |
| | | | 2 | 56.770 | 59.830 | 1.500 | 27.00 | 0.03-0.12 | | |
| | | | 3 | 56.570 | 59.630 | 1.500 | 27.00 | 0.03-0.12 | | |
| | | | 4 | 56.370 | 59.830 | 1.700 | 27.00 | 0.03-0.12 | | |
| PB-2110J (83-95) | P.B. | 1-6 | 35.000 | 39.025 | 2.040 | (U)30.00 (L)38.00 | 0.02-0.04 | 13272-1280 | | |
| | | | | | | | | | | |

HONDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|---|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| C25A V6 84 x 75 2493cc | MS-2210GP (85-ON) TW-2210GP (85-ON) | Main 1-4 | 64.000 | 68.024 | 2.000 | 20.00 | 0.03-0.074 | 4.7-5.3 | 13321-PH7-013 13321-PH7-014 13331-PH7-003 |
| | | T.W. NO.4 | (I.D.)75.25 | (O.D.)94.00 | 2.500 | | | | |
| C27A V6 87 x 75 2675cc | CB-2210GP (85-ON) | C.R. 1-6 | 52.000 | 55.024 | 1.503 | 17.50 | 0.006-0.07 | 4.7-5.1 | |
| D12A 4 cyl. 72 x 76 1237cc | MS-2214A (86-ON) TW-1134GP (86-ON) | Main 1-4 | 43.000 | 47.000 | 2.007 | 20.00 | | | 13321-PJ7-003 13331-PD-003 |
| | | T.W. NO.4 | (I.D.)56.00 | (O.D.)78.00 | 2.475 | | | | |
| D13C 4 cyl. 73.6 x 76 1296cc | CB-2214GP (86-ON) | C.R. 1-4 | 39.000 | 42.000 | 1.504 | 18.50 | | | |
| D13A 4 cyl. 75 x 76 1343cc | MS-2206GP (86-ON) TW-1134GP (86-ON) | Main 1-4 | 45.000 | 49.024 | 2.001 | 20.00 | 0.002-0.07 | 4.2-4.8 | 13321-PE0-044 13331-PD1-003 |
| | | T.W. NO.4 | (I.D.)56.00 | (O.D.)78.00 | 2.475 | | | | |
| D13B 4 cyl. 75 x 76 1343cc | CB-2204GP (D13A/B/C/ 87-ON) | C.R. 1-4 | 40.000 | 43.024 | 1.500 | 18.50 | 0.02-0.04 | 2.6-3.0 | |
| D13C 4 cyl. 73.6 x 76 1296cc | CB-2205GP (D15 87-91) | C.R. 1-4 | 42.000 | 45.024 | 1.500 | 18.50 | | | 13211-PE1-003 |
| D15 4 cyl. 75 x 84.5 1493cc | CB-2208GP (D15 91-ON) | C.R. 1-4 | 45.000 | 48.024 | 1.504 | 18.50 | 0.008-0.07 | | 13211-PG6-003 |
| D16 4 cyl 75 x 90 1590cc | MS-2208GP (84-95) TW-2208GP (84-95) | Main 1-4 | 55.000 | 59.024 | 2.007 | 20.00 | 0.014-0.06 | 5.2-5.8 | 13321-PG6-003 13331-PG6-003 |
| | | T.W. NO.4 | (I.D.)61.25 | (O.D.)82.00 | 2.500 | | | | |
| ZC 4 cyl. 75 x 90 1590cc | CB-2208GP (84-95) | C.R. 1-4 | 45.000 | 48.024 | 1.504 | 18.50 | 0.008-0.07 | 3.0 | |

HONDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|---|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| EB1 4 cyl. 70 x 76 1169cc | MS-1134GP (72-87) | Main 1-5 | 50.000 | 54.024 | 2.010 | 20.00 | 0.03-0.06 | 3.7-4.3 | 13321-634-003 |
| EE 4 cyl. 72 x 76 1238cc | TW-1134GP (72-87) | T.W. No.4 | (I.D.)56.00 | (O.D.)78.00 | 2.475 | | | | 13331-634-003 |
| EC,ED 4 cyl. 74 x 86.5 1488cc | CB-1134GP EB1,EE,EJ,EN (72-81) | C.R. 1-4 | 40.000 | 43.024 | 1.500 | 17.50 | 0.02-0.04 | 2.7-3.1 | 13211-PB9-003 |
| EF 4 cyl. 74 x 93 1599cc | CB-1142GP EC,ED,EF,EK,EM, EP (72-82) | C.R. 1-4 | 42.000 | 45.024 | 1.500 | 17.50 | 0.02-0.04 | 2.7-3.1 | 13211-PC1-003 |
| EJ,EN 4 cyl. 72 x 82 1335cc | CB-2204GP EV (83-87) | C.R. 1-4 | 40.000 | 43.024 | 1.500 | 18.50 | 0.02-0.04 | 2.6-3.0 | 13211-PE0-003 |
| EK 4 cyl. 77 x 94 1750cc | CB-2205GP EW (83-87) | C.R. 1-4 | 42.000 | 45.024 | 1.500 | 18.50 | 0.02-0.08 | 2.6-3.0 | 13211-PE1-003 |
| EM,EW 4 cyl. 74 x 86.5 1488cc | | | | | | | | | |
| EP 4 cyl. 77 x 86 1601cc | | | | | | | | | |
| EV 4 cyl. 74 x 78 1342cc | | | | | | | | | |
| EV1 4 cyl. 74 x 78 1342cc | CB-2209GP | C.R. 1-4 | 38.000 | 41.024 | 1.504 | 18.50 | | | 13211-PE0-661 |

HONDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| ER 4 cyl. 66 x 90 1231cc ER-T 4 cyl. 66 x 90 1231cc | MS-2206GP (81-86) TW-1134GP (81-86) | Main 1-5 | 45.000 | 49.024 | 2.001 | 20.00 | 0.002-0.07 | 4.2-4.8 | 13321-PC0-003 |
| | | T.W. NO.4 | (I.D.)56.00 | (O.D.)78.00 | 2.475 | | | | 13331-634-003 |
| | CB-1134GP (ER-T 81-86) CB-2206GP (ER 81-85) | C.R. 1-4 | 40.000 | 43.024 | 1.500 | 17.50 | 0.02-0.04 | 2.7-3.1 | 13211-634-003 |
| | | C.R. 1-4 | 37.000 | 40.000 | 1.504 | | | | 13211-PC0-004 |
| ES 4 cyl. 80 x 91 1829cc ET 4 cyl. 80 x 91 1829cc EY 4 cyl. 80 x 79.5 1598cc | MS-2200GP (83-86) | Main 1-5 | 50.000 | 54.024 | 2.010 | 20.00 | 0.03-0.10 | 6.3-7.3 | 13321-PC6-003 |
| | | T.W. NO.4 | (I.D.)56.00 | (O.D.)78.00 | 2.475 | | | | 13331-634-003 |
| | CB-2200GP (ES,ET 83-86) | C.R. 1-4 | 45.000 | 48.024 | 1.500 | 19.50 | 0.02-0.08 | 3.0-3.4 | 13331-679-003 |
| | | C.R. 1-4 | 42.000 | 45.024 | 1.500 | | | | 13211-PC6-003 |
| | CB-2203GP (EY 83-ON) | C.R. 1-4 | 42.000 | 45.024 | 1.500 | 17.50 | 0.02-0.04 | 2.6-3.0 | 13211-PD4-003 |
| | | | | | | | | | |
| F20A 4 cyl. 85 x 88 1997cc F22 4 cyl. 85 x 95 2156cc | MS-2213GP (89-ON) | Main 1-5 | 50.000 | 54.000 | 2.000 | 20.00 | 0.020-0.054 | | 13321-PT0-004 |
| | | T.W. | (I.D.)57.50 | (O.D.)78.00 | 2.490 | | | | 13331-PT0-003 |
| | CB-2213GP (89-ON) | C.R. 1-4 | 48.000 | 51.000 | 1.500 | 19.50 | 0.013-0.087 | | 13211-PH3-004 |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|--|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 3AE1 3 cyl. 80 x 86 1296cc 3AF1 3 cyl. 76 x 86 1170cc | MS-1602GP (3AE1 80-ON) 3AF1 80-85) | Main 1.3. | 69.932 | 74.000 | 2.015 | 26.63 | 0.020-0.074 | 16.0-18.0 | 5-11510-033 |
| | | 2.4. | 69.932 | 74.000 | 2.015 | 21.40 | 0.020-0.074 | | |
| | TW-1070GP (ALL 80-ON) | T.W. No.2 | (I.D.)78.0 | (O.D.)93.0) | 2.480 | | | | 9-11581-057 |
| | | CB-1602A (3AE1 80-ON (3AF1 80-85) | C.R. 1-3 | 48.937 | 52.000 | 2.013 | 22.00 | 0.025-0.081 | 7.8-8.2 |
| PB-1602J (3AE1 80-ON) (3AF1 80-85) | P.B. 1-3 | | 25.000 | 28.025 | 1.530 | 26.75 | 0.008-0.013 | | 5-12251-007 |
| | 4BD1 4 cyl. 102 x 118 3856cc 4BD1-T 4 cyl. 102 x 118 3856cc UM4BD1 4 cyl. 102 x 118 3856cc UM4BD1-T 4 cyl. 102 x 118 3856cc | MS-1604GP (81-ON) | Main 1-5 | 79.925 | 85.019 | 2.518 | 26.68 | 0.039-0.098 | 23.0-25.0 |
| 3-L | | | 79.925 | 85.019 | 2.518 | 26.68 | 0.039-0.098 | | |
| TW-1155GP (81-ON) | | T.W. No.4 | (I.D.)88.0 | (O.D.)101.0 | 2.500 | | | | 5-11685-001 8-97071-358 |
| | | C1-1129GP (81-ON) | C.R. 1-4 | 63.944 | 68.015 | 2.013 | 29.80 | 0.030-0.073 | 11.0-12.0 |
| SH-1163B (81-ON) | | | Cam 1 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | |
| | | PB-1163J (81-ON) | 2.3. P.B. 1-4 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | |
| | | | 35.000 | 38.025 | 1.530 | 38.00 | 0.012-0.025 | | |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|-----------------------|----------------------------|------------------|-------------------|----------------|----------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 4BA1 4 cyl 98 x 92 2775cc | M1-1129GP (4BA1 73-77) (4BB1 73-77) | Main 1-5 | 75.925 | 81.019 | 2.525 | 27.80 | 0.025-0.076 | 23.0-25.0 | 5-11510-002 |
| 4BB1 4 cyl 102 x 110 3595cc | MS-1163GP (4BA1 78-80) (4BB1 78-80) (4BC1 79-81) | Main 1.2.4.5. 3 | 75.925 75.925 | 81.019 81.019 | 2.525 2.525 | 27.80 27.80 | 0.025-0.076 0.025-0.076 | 23.0-25.0 | 5-11510-051 |
| 4BC1 4 cyl 102 x 100 3268cc | MS-1603GP (4BA1 85-96) (4BB1 85-96) | Main 1-5 3-L | 75.925 75.925 | 81.019 81.019 | 2.525 2.525 | 27.80 27.80 | 0.025-0.075 0.025-0.075 | 23.0-25.0 | 5-11510-060 |
| 4BC2 4 cyl 102 x 100 3268cc | (4BC1 81-84) (4BC2 81-96) (4BC2F 83-94) (UM4BC2 83-94) | | | | | | | | |
| 4BE1 4 cyl 105 x 105 3636cc | (4BE1 85-96) (4BE1T 85-96) | | | | | | | | |
| 4BE1-T 4 cyl 105 x 105 3636cc | TW-1129GP (4BA1/2 78-85) (4BB1/2 78-85) (4BC112 78-85) | T.W. No.4 | (I.D.)84.5 | (O.D.)101.0 | 2.500 | | | | 9-11585-601 |
| UM4BC2 4 cyl 102 x 100 3268cc | TW-1155GP (4BA1 85-96) (4BB1 85-96) (4BC1 81-84) (4BC2 85-96) (4BE1 85-96) (4BE1T 85-96) (4DB1 86-97) (4BD2T 86-97) | T.W. No. | (I.D.)88.0 | (O.D.)101.0 | 2.500 | | | | 5-11685-001 8-97071-358 |
| 4BD1 | C1-1129GP (ALL 73-96) | C.R. 1-4 | 63.944 | 68.015 | 2.013 | 29.80 | 0.030-0.073 | 11.0-12.0 | 5-12271-010 8-97011-031 |
| 4BD2T | SH-1163B (77-78) | Cam 1 2.3. | 55.970 55.970 | 60.046 60.046 | 1.995 1.995 | 20.00 20.00 | 0.030-0.090 0.030-0.090 | | 9-11691-048 9-11693-035 |
| | PB-1100J | P.B. 1-4 | 33.000 | 36.025 | 1.530 | 38.00 | 0.012-0.025 | | 9-12251-059 |
| | PB-1129J | P.B. 1-4 | 33.000 | 38.025 | 2.530 | 38.00 | 0.012-00.025 | | 9-12251-603 |
| | PB-1163J | P.B. 1-4 | 35.000 | 38.025 | 1.530 | 38.00 | 0.012-0.025 | | 5-12251-006 |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|------------------------------------|------------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 4EC1/T 4 cyl 76 x 82 1487cc | MS-1624GP (4EC1 85-ON) | Main 1-5 | 47.938 | 52.000 | 2.006 | 15.40 | 0.030-0.058 | 9.0 | 8-94151-600 |
| | MS-1625GP (4EC1-T 85-ON) | Main 1-5 | 51.938 | 56.000 | 2.006 | 15.40 | 0.030-0.060 | 9.0 | 8-94154-014 8-94124-100 |
| | TW-1625GP (85-ON) | T.W. No.2 | (I.D.)59.0 | (O.D.)69.95 | 2.210 | | | | 8-94227-387 |
| | CB-1624A (85-ON) | C.R. 1-4 | 45.945 | 49.000 | 1.506 | 16.70 | 0.025-0.058 | 2.5 | 8-94141-604 8-94314-253-0 8-94151-604 8-94251-216 |
| | PB-1624J (4EC1 85-ON) | P.B. 1-4 | 22.000 | 25.025 | 1.540 | 23.75 | | | |
| | PB-1625J (4EC1-T 85-ON) | P.B. 1-4 | | | | | | | 8-94114-054 |
| 4FA1 4 cyl 76 x 82 1487cc 4FB1 4 cyl 84 x 82 1817cc 4FC1 4 cyl 84 x 90 1995cc 4FE1 4 cyl 73.6 x 82 1499cc 4FD1 4 cyl 88 x 90 2189cc 4FG1 4 cyl 89.3 x 95 2380cc | MS-1616GP (80-90) | Main 1-5 | 55.930 | 60.000 | 2.000 | 21.50 | 0.029-0.072 | 10.0-11.0 | 8-94220-838 |
| | | 3L | 55.930 | 60.000 | 2.000 | 21.50 | | | |
| | TW-1030GP (80-82) | T.W. No.3 | (I.D.)63.0 | (O.D.)80.0 | 2.360 | | | | 8-94210-750 |
| | | TW-1616GPA (82-90) | T.W. No.3 | (I.D.)64.0 | (O.D.)80.2 | 2.360 | | | 8-94250-265 |
| | CB-1616GP (80-90) | C.R. 1-4 | 48.940 | 52.000 | 2.000 | 22.00 | 0.035-0.073 | 8.0-9.0 | 8-94221-167 |
| | | SH-1166B (80-90) | Cam 1-5 | 27.975 | 31.025 | 1.500 | 16.00 | 0.025-0.090 | 2.6 |
| | PB-1166J (80-90) | P.B. 1-4 | 25.000 | 28.025 | 1.530 | 26.00 | 0.008-0.020 | | 5-12251-007 |
| | | PB- (83-90) | P.B. | | | | | | |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|--|-----------------------------|----------------------------|------------------|-------------------|----------------|------------------------|----------------------------|----------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| 4JA1 4 cyl 93 x 92 2499cc | MS-1622GP (4JA1 85-ON) MS-1623GP (4JB1 95-ON) | Main 1-5 | 59.932 | 64.000 | 2.005 | 23.00 | 0.035-0.080 | 17.0 | 8-94168-553 | |
| | | Main 1-5 | 69.932 | 74.000 | 2.005 | 23.00 | 0.035-0.080 | 17.0 | 8-94168-552 | |
| | TW-1622GP (4JA1 85-ON) | T.W. No.3 | (I.D.)73.0 | (O.D.)87.0 | 2.480 | | | | 8-94125-752 | |
| | TW-1070GP (4JB1 85-ON) | T.W. | | | | | | | 8-94130-923 | |
| | 4JB1 4 cyl 93 x 102 2771cc | CB-1622GP (85-ON) | No.3 C.R. 1-4 | (I.D.)78.0 | (O.D.)93.0 | 2.480 | 25.50 | 0.030-0.070 | 8.0-9.0 | 8-94125-747 |
| | | | Cam 1 2.3. | 49.975 49.975 | 54.035 54.035 | 2.025 2.025 | 25.00 22.00 | 0.025-0.085 0.025-0.085 | | 8-94168-556 |
| PB-1622J (85-ON) | | P.B. 1-4 | 31.000 | 34.025 | 1.530 | 33.00 | 0.008-0.020 | | 8-94247-968 | |
| 4XC1/T 4 cyl 77 x 79 1471cc | MS-1621A (85-90) MS-1626GP (90-ON) TW-1621A (85-90) TW-1616A (90-ON) CB-1621A (4XC1/T 85-ON) | Main 1-5 | 47.938 | 52.000 | 2.000 | 17.00 | 0.020-0.074 | 8.5-9.5 | 8-94151-527 | |
| | | Main | | | | | | | 8-94360-465 | |
| | T.W. No.3 T.W. | (I.D.)55.0 | (O.D.)70.0 | 2.200 | | | | | 8-94257-903 8-94321-679 | |
| | C.R. 1-4 | 39.945 | 43.000 | 1.500 | 17.00 | 0.021-0.064 | 3.3-3.7 | 8-94311-012 | | |
| | CB-1626GP (4XE1 88-ON) | C.R. 1-4 | 39.945 | 43.000 | 1.500 | 17.00 | 0.021-0.064 | 3.3-3.7 | 8-94481-860 | |
| 4ZA1 4 cyl 82 x 84 1584cc 4ZB1 4 cyl 84 x 82 1817cc 4ZC1 4 cyl 88 x 82 1994cc | MS-1620GP (81-ON) TW-1616A (81-ON) | Main 1-5 | 55.932 | 60.000 | 2.010 | 22.00 | 0.032-0.072 | 10.0 | 8-94251-263 | |
| | | T.W. No.3 | (I.D.) 64.0 | (O.D.) 80.2 | 2.360 | | | | 8-94251-265 | |
| | CB-1620GP (81-ON) | C.R. 1-4 | 48.940 | 52.000 | 1.513 | 21.50 | 0.025-0.065 | 4.3-4.7 | 8-94251-266 | |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|---|-----------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|---|--|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| 4ZE1 4 cyl 92.6 x 95 2559cc | MS-1627GP (87-ON) TW-1616A (87-ON) CB-1627A (87-ON) | Main 1-5 | 55.932 | 60.000 | 2.010 | 22.00 | 0.028-0.086 | 10.0 | 8-94446-580-1 | |
| | | T.W. No. | (I.D.)64.0 | (O.D.)80.2 | 2.360 | | | | 8-94251-265 | |
| | | C.R. 1-4 | 48.940 | 52.000 | 1.510 | 22.00 | 0.027-0.075 | 6.0 | 8-94440-093-2 | |
| 6BB1 6 cyl 102 x 110 5393cc 6BD1 6 cyl 102 x 118 5785cc 6BF1 6 cyl. 102 x 118 5785cc 6BG1 6 cyl 105 x 118 6130cc | M1-1129GP (72-76) | Main 1-7 | 75.925 | 81.019 | 2.525 | 27.80 | 0.025-0.076 | 23.0-25.0 | 9-11510-606 | |
| | | Main 1-7 | 79.925 | 85.019 | 2.525 | 26.70 | 0.025-0.076 | 23.0-25.0 | 5-11510-048 | |
| | Main 1-7 | | 79.925 | 85.019 | 2.525 | 26.70 | 0.025-0.076 | 23.0-25.0 | 1-11510-040 1-11510-072 9-11585-601 | |
| | | T.W. No.4 | (I.D.)84.5 | (O.D.)101.0 | 2.500 | 26.68 | 0.032-0.087 | | | |
| | Main 1-7 | MS-1612GP (80-ON) | 79.925 | 85.019 | 2.518 | 26.68 | 0.032-0.087 | 23.0-25.0 | 1-11510-040 1-11510-072 9-11585-601 | |
| | | TW-1129GP (72-76) | No.4 | (I.D.)84.5 | (O.D.)101.0 | 2.500 | 29.80 | 0.030-0.073 | 11.0-12.0 | 5-11685-001 8-97071-358 9-12271-608 8-97011-031 |
| | T.W. No.4 | (I.D.)88.0 | (O.D.)101.0 | 2.500 | | | | | | |
| | Main 1-6 | C1-1129GP (72-ON) | C.R. 1-6 | 63.944 | 68.015 | 2.013 | 29.80 | 0.030-0.073 | 11.0-12.0 | 8-97011-031 |
| | | SH-1129B (72-ON) | Cam 1 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | 9-11691-048 9-11693-035 | |
| | | | 2-6 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | | |
| P.B. 1-6 | PB-1155J (72-ON) | 35.000 | 38.025 | 1.530 | 38.00 | 0.012-0.025 | 5-12251-006 | | | |
| 6SA1 6 cyl 115 x 135 8413cc | MS-1618GP (85-ON) | Main 1-7 | 89.930 | 96.020 | 3.013 | 27.50 | 0.045-0.110 | 10.0-13.5 | 1-11510-067 | |
| | | T.W. No.7 | (I.D.) 101.25 | (O.D.) 124.0 | 3.500 | 27.50 | 0.040-0.106 | 4.0 | 1-11599-007 | |
| | C.R. 1-6 | 77.914 | 84.000 | 3.013 | 1-12271-050 | | | | | |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | | |
|--|--|--|--|---------------------------------|-----------------------------|--------------|------------------------|---------------------------|--------------------------|-------------|-------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | | |
| C190 4 cyl 86 x 84 1951cc | MS-1138GP (C190 71-83) | Main | | | | | | | 5-11510-020 | | | |
| | | 1.5. | 59.932 | 64.000 | 2.013 | 31.00 | 0.034-0.099 | 16.0-18.0 | | | | |
| | | 2.4. | 59.932 | 64.000 | 2.013 | 23.00 | 0.034-0.099 | | | | | |
| | C223 4 cyl 82 x 92 2238cc | MS-1605GP (C223 80-83) | 3 | 59.932 | 64.000 | 2.013 | 38.00 | 0.034-0.099 | 16.0-18.0 | 8-94104-726 | | |
| | | | Main | | | | | | | | | |
| | | | 1.5. | 59.932 | 64.000 | 2.015 | 27.50 | 0.034-0.099 | | | | |
| | | C223 4 cyl 82 x 92 2238cc | TW-1622GP (71-83) | 2.4. | 59.932 | 64.000 | 2.015 | 23.00 | 0.034-0.099 | 7.8-8.2 | 5-12271-005 | |
| | | | | 3 | 59.932 | 64.000 | 2.015 | 28.60 | 0.034-0.099 | | | |
| | | | | T.W. | | | | | | | | |
| | | | C223 4 cyl 82 x 92 2238cc | TW-1622GP (71-83) | No.3 | (I.D.)73.0 | (O.D.)87.0 | 2.480 | | | 7.8-8.2 | 5-12271-005 |
| | | | | | (TW-1031B) | | | | | | | |
| | | | | | CB-1070GP (71-83) | C.R. | 52.930 | 56.000 | 1.513 | 22.50 | | |
| C223 4 cyl 82 x 92 2238cc | | | | SH-1070B (C190 71-83) | 1-4 | 52.930 | 56.000 | 1.513 | 22.50 | 0.029-0.082 | 7.8-8.2 | 5-11610-602 |
| | | | | | Cam | | | | | | | |
| | | | | | 1 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | | |
| | C223 4 cyl 82 x 92 2238cc | | | SH-1070B (C190 71-83) | 2 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | 7.8-8.2 | 5-11610-602 |
| | | | | | 3 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | | |
| | | | | | Cam | | | | | | | |
| | | C223 4 cyl 82 x 92 2238cc | | SH-1605B (C223 80-83) | 1 | 47.975 | 52.035 | 2.025 | 22.00 | 0.019-0.088 | 7.8-8.2 | 5-11610-002 |
| | | | | | 2 | 47.975 | 52.035 | 2.025 | 22.00 | 0.019-0.088 | | |
| | | | | | 3 | 47.975 | 52.035 | 2.025 | 22.00 | 0.019-0.088 | | |
| | | | C223 4 cyl 82 x 92 2238cc | PB-1070J (C190 71-83) | P.B. | | | | | | 7.8-8.2 | 9-12271-062 |
| | | | | | 1-4 | 27.000 | 30.025 | 1.530 | 34.00 | 0.008-0.020 | | |
| | | | | | P.B. | | | | | | | |
| C223 4 cyl 82 x 92 2238cc | | | | PB-1605J (C223 80-83) | 1-4 | 27.000 | 30.025 | 1.530 | 30.00 | 0.008-0.020 | 7.8-8.2 | 5-12251-005 |
| | | | | | P.B. | | | | | | | |
| | | | | | 1-4 | 27.000 | 30.025 | 1.530 | 30.00 | 0.008-0.020 | | |
| | C221 4 cyl 83 x 102 2207cc | | | MS-1610GP (68-85) | Main | | | | | | 16.0-18.0 | 5-11510-021 |
| | | | | | 1.5. | 69.932 | 74.000 | 2.012 | 30.50 | 0.034-0.099 | | |
| | | | | | 2.4. | 69.932 | 74.000 | 2.012 | 21.40 | 0.034-0.099 | | |
| | | C221 4 cyl 83 x 102 2207cc | | TW-1070GP (68-85) | 3 | 69.932 | 74.000 | 2.012 | 36.00 | 0.034-0.099 | 16.0-18.0 | 9-11581-057 |
| | | | | | T.W. | | | | | | | |
| | | | | | No.3 | (I.D.)78.0 | (O.D.)93.0 | 2.480 | | | | |
| | | | C221 4 cyl 83 x 102 2207cc | CB-1070GP (68-85) | C.R. | | | | | | 7.8-8.2 | 5-12271-005 |
| | | | | | 1-4 | 52.930 | 56.000 | 1.513 | 22.50 | 0.029-0.082 | | |
| | | | | | C.R. | | | | | | | |
| C240 4 cyl 86 x 102 2369cc | | | | SH-1070B (68-85) | Cam | | | | | | 7.8-8.2 | 9-11610-602 |
| | | | | | 1 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | | |
| | | | | | 2 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | | |
| | C240 4 cyl 86 x 102 2369cc | | | PB-1033J (C221 68-79) | 3 | 47.975 | 52.035 | 2.010 | 25.00 | 0.019-0.088 | 7.8-8.2 | 9-12251-061 |
| | | | | | P.B. | | | | | | | |
| | | | | | 1-4 | 25.000 | 28.000 | 1.545 | 34.00 | 0.008-0.020 | | |
| | | C240 4 cyl 86 x 102 2369cc | | PB-1070J (C240 EARLY) | P.B. | | | | | | 7.8-8.2 | 9-12251-062 |
| | | | | | 1-4 | 27.000 | 30.025 | 1.530 | 34.00 | 0.008-0.020 | | |
| | | | | | P.B. | | | | | | | |
| | | | C240 4 cyl 86 x 102 2369cc | PB-1605J (C240 LATE) | 1-4 | 27.000 | 30.025 | 1.530 | 30.00 | 0.008-0.020 | 7.8-8.2 | 9-12251-005 |
| | | | | | P.B. | | | | | | | |
| | | | | | 1-4 | 27.000 | 30.025 | 1.530 | 30.00 | 0.008-0.020 | | |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|-------------------------------|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| C330 4 cyl 98 x 110 3318cc | M1-1129GP (70-81) | Main 1-5 | 75.925 | 81.019 | 2.525 | 27.80 | 0.025-0.076 | 23.0-25.0 | 9-11510-167 |
| | TW-1100GP (70-81) | T.W. No.4 | (I.D.)84.0 | (O.D.)101.0 | 2.980 | | | | 9-11585-065 |
| | C1-1129GP (70-81) | C.R. 1-4 | 63.944 | 68.015 | 2.013 | 29.30 | 0.030-0.073 | 10.3-10.8 | 9-12271-178 8-97011-031 |
| | SH-1100B (70-76) | Cam 1-4 | 55.970 | 60.046 | 1.530 | 38.00 | 0.030-0.090 | | 9-11691-048 |
| | SH-1163B (77-81) | Cam 1 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | | 9-11691-048 |
| | PB-1100J (70-73) | P.B. 1-4 | 33.000 | 36.025 | 1.530 | 38.00 | 0.012-0.025 | | 9-11693-035 |
| | PB-1129J (73-81) | P.B. 1-4 | 33.000 | 38.025 | 2.530 | 38.00 | 0.012-0.025 | | 9-12251-059 9-12251-063 |
| D500 6 cyl 98 x 100 4978cc | M1-1129GP (70-81) | Main 1-7 | 75.925 | 81.019 | 2.525 | 27.80 | 0.025-0.076 | 23.0-25.0 | 5-11510-041 |
| | TW-1100GP (70-81) | T.W. No.4 | (I.D.)84.0 | (O.D.)101.0 | 2.980 | | | | 9-11585-065 |
| | C1-1129GP | C.R. 1-6 | 63.944 | 68.015 | 2.013 | 29.30 | 0.030-0.090 | 10.3-10.8 | 9-12271-178 9-12271-608 |
| | SH-1129B (70-81) | Cam 1 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | | 9-11691-048 |
| | | 2-6 | 55.970 | 60.046 | 1.995 | 20.00 | 0.030-0.090 | | 9-11693-035 |
| | PB-1629J (70-81) | P.B. 1-6 | 33.000 | 38.025 | 1.530 | 38.00 | 0.012-0.025 | | 9-12251-059 |

ISUZU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|----------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| G130 4 cyl 75 x 75 1325cc | MS-1103GP (66-85) | Main 1.3.5. | 55.935 | 59.000 | 1.513 | 32.00 | 0.026-0.069 | 8.0-12.0 | 8-94215-641 |
| | TW-1030GP (66-85) | 2.4. T.W. No.3 | 55.935 | 59.000 | 1.513 | 21.00 | 0.026-0.069 | | 8-94210-750 |
| G150 4 cyl 49 x 75 1471cc | CB-1032GP (66-78) | C.R. 1-4 | 48.940 | 52.000 | 1.513 | 22.00 | 0.029-0.070 | 4.3-4.7 | 9-12271-143 |
| | CB-1628GP (79-85) (CB-1103GP) | C.R. 1-4 | 48.940 | 52.000 | 1.513 | 22.00 | 0.029-0.070 | 4.3-4.7 | 8-94218-061 |
| G161 4 cyl 82 x 75 1584cc | SH-1032B (Early except G200) | Cam 1-3 | 44.975 | 48.030 | 1.505 | 25.00 | 0.025-0.125 | | 5-11611-002 |
| G180 4 cyl 84 x 82 1817cc | SH-1103B (Late except G200) | Cam 1.2.3.5. | 49.9750 | 48.030 | 1.505 | 22.00 | 0.019-0.080 | | 9-11611-035 |
| | PB-1032J (66-78) | 4 P.B. 1-4 | 49.9750 | 48.030 | 1.505 | 18.00 | 0.019-0.080 | | 9-12251-045 |
| G200 4 cyl 87 x 82 1949cc | | | 22.000 | 25.421 | 1.730 | 26.00 | 0.006-0.012 | | |
| G200W 4 cyl 87 x 82 1949cc | MS-1620GP (84-ON) | Main 1-5 | 55.935 | 60.000 | 2.010 | 22.00 | 0.032-0.072 | 10.0 | 8-94215-263 |
| | TW-1616A (84-ON) | T.W. No.3 | (I.D.)64.0 | (O.D.)80.2 | 2.360 | | | | 8-94250-265 |
| | CB-1620GP (84-ON) | C.R. 1-4 | 48.940 | 52.000 | 1.513 | 21.50 | 0.019-0.072 | 6.0 | 8-94251-266 |

MAZDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|--------------|----------------------------|-----------------|-------------------|--------------|----------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| B1 4 cyl 68 x 78.4 1138cc | MS-2008A (85-86) | Main 1-5 | 49.950 | 54.018 | 2.000 | 17.50 | 0.024-0.042 | 5.5-6.0 | B6Y0-11-SG0 |
| B3 4 cyl 71 x 83.6 1323cc | MS-2012A (86-ON) | Main 1-5 | 49.956 | 54.018 | 2.013 | 17.5 | 0.018-0.074 0.018-0.074 | 5.5-6.0 | B6Y1-11-SG0 |
| B5 4 cyl 78 x 78.2 1498cc | TW-2008A (85-ON) | T.W. No.4 | (I.D.)57.25 | (O.D.)69.0 | 2.550 | | | | B6Y0-11-SG0 |
| B6 4 cyl 78 x 83.6 1597cc | CB-1168A (B1/B3/B5 85-ON) | C.R. 1-4 | 39.955 | 43.016 | 1.513 | 17.00 | 0.021-0.068 | 3.5-4.0 | B3Y0-11-SE0 |
| B6-T 4 cyl 78 x 83.6 1597cc | CB-2008A (B6/B6T 85-ON) | C.R. 1-4 | 44.956 | 48.016 | 1.500 | 17.00 | 0.028-0.068 | 4.7 | B6Y0-11-SE0 |
| | PB-2008J (B6 85-86) | P.B. 1-4 | 19.993 | 23.000 | 1.543 | 21.80 | | | B660-11-213 |
| E1 4 cyl 70 x 69.6 1071cc | MS-1168A (E1/3/5 80-ON) (TC 78-86) (UC 78-ON) | Main 1-5 | 49.955 | 54.019 | 2.013 | 19.00 | 0.019-0.069 | 6.0-6.5 | E301-23-151 |
| E3 4 cyl 77 x 69.6 1296cc | TW-1168A | T.W. | | | | | | | 8034-11-380 |
| E5 4 cyl 77 x 80 1490cc | (E1/3/5 80-ON) (TC 78-86) (UC 78-ON) | 1-5 | (I.D.)57.0 | (O.D.)69.0 | 2.010 | | | | |
| TC 4 cyl 73 x 76 1272cc | CB-1168A (E1/3/5 80 -ON) (TC 78-86) (UC 78-ON) | C.R. No.4 | 39.955 | 43.016 | 1.513 | 17.00 | 0.021-0.068 | 3.5-4.0 | 8936-23-105 |
| UC 4 cyl 77 x 76 1415cc | | | | | | | | | |

MAZDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|---|-------------------------------------|----------------------------|-----------------|-------------------|--------------|---|---------------------------|--------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| F6 4 cyl 81 x 77 1587cc F8 4 cyl 86 x 77 1789cc FE 4 cyl 86 x 86 1998cc FE-T 4 cyl 86 x 86 1998cc F2 4 cyl 86 x 94 2184cc | MS-2004A (F6/8/FE 82-87) | Main 1-5 Δ3(L) | 59.955 | 64.019 | 2.013 | 19.00 | 0.017-0.071 0.017-0.071 | 8.4-9.4 | F801-23-251 | |
| | | | 59.955 | 64.019 | 2.013 | 27.95 | | | | |
| | MS-2009A (87-98) | Main 1.2.4.5. 1-5(L) Δ3(U) | 59.955 | 64.019 | 2.013 | 19.00 | 0.019-0.073 0.019-0.073 0.019-0.073 | 8.4-9.0 | FE1H-11-SG0 | |
| | | | 59.955 | 64.019 | 2.013 | 19.00 | | | | |
| | | | 59.955 | 64.019 | 2.013 | 27.95 | | | | |
| | CB-2004A (F6/8/FE 82-97) | C.R. 1-4 | 50.955 | 54.017 | 1.510 | 21.00 | 0.027-0.067 | 5.1-5.6 | F801-23-105A | |
| | | | | | | | | | | |
| | CB-2009A (FE/T/2 87-98) | C.R. 1-4 | 50.955 | 54.017 | 1.510 | 21.00 | 0.027-0.067 | 5.1-5.6 | FEYA-11-SE0 | |
| | | | | | | | | | | |
| | HA 4 cyl 95 x 105 2977cc SL 4 cyl 100 x 110 3455cc | MS-1153GP (77-92) | Main 1-5 | 75.825 | 80.092 | 2.103 | 28.60 | 0.055-0.114 | 11-11.7 | SE01-23-110 |
| | | | | | | | | | | |
| | | TW-1135K (77-92) | T.W. | (I.D.)84.5 | (O.D.)101.4 | 2.325 | | | | 1363-23-115 |
| | | | | | | | | | | |
| CB-1153GP (77-92) | | C.R. 1-4 | 61.125 | 64.846 | 1.836 | 28.50 | 0.036-0.088 | 7.6-8.3 | 1363-23-105 | |
| | | | | | | | | | | |
| PB-1075J (77-80) | | P.B. 1-4 | 31.749 | 34.955 | 1.620 | 26.80 | 0.014-0.044 | | 0636-11-213 | |
| | | | | | | | | | | |
| PB-2005J (HA 81-90) | P.B. 1-4 | 30.000 | 33.000 | 1.500 | 34.00 | 0.012-0.033 | | SE01-11-213 | | |
| | | | | | | | | | | |
| PB-2006J (SL 84-ON) | P.B. 1-4 | 34.000 | 37.039 | 1.535 | 34.00 | 0.012-0.040 | | SL01-11-213 | | |
| | | | | | | | | | | |
| JE V6 90 x 77.4 2954cc | MS-2010GP (86-ON) | Main 1-4 | 61.955 | 66.019 | 2.012 | 18.00 | 0.021-0.081 | 2.0+90° | JFY1-11-SG0 | |
| | | | | | | | | | | |
| | TW-2010GP (86-ON) | T.W. | (I.D.)68.25 | (O.D.)80.0 | 2.050 | | | | JFY1-11-SJ0 | |
| | | | | | | | | | | |
| CB-2010A (86-ON) | C.R. 1-6 | 52.955 | 56.019 | 1.511 | 17.00 | 0.023-0.085 | 3.0+80° | JEY1-11-SE0 | | |
| | | | | | | | | | | |

MAZDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|---|-----------------------------|----------------------------|----------------------------|-------------------------|-------------------------|---|----------------------------|--------------------------|--------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| MA 4 cyl 80 x 98 1970cc NA 4 cyl 78 x 83 1586cc UB 4 cyl 78 x 78 1490cc VB 4 cyl 78 x 94 1796cc VC 4 cyl 80 x 88 1769cc | MS-1114A (70-84) | Main 1.2.4. 3 5 | 62.955 62.955 62.955 | 67.020 67.020 67.020 | 2.013 2.013 2.013 | 18.00 24.00 24.00 | 0.021-0.075 0.021-0.075 0.021-0.075 | 8.4-9.0 | 0305-23-151C | |
| | TW-1061GP (70-84) | T.W. No.5 | (I.D.)70.0 | (O.D.)86.0 | 2.050 | | | | 0305-23-201B | |
| | CB-1086A (MA/VB 77-84) | C.R. 1-4 | 52.955 | 56.020 | 1.513 | 22.00 | 0.027-0.077 | 4.4-4.6 | 3975-23-105A | |
| | CB-1141A (NA/UB/VC 70-84) | C.R. 1-4 | 52.955 | 56.020 | 1.510 | 20.80 | 0.030-0.069 | 4.4-4.6 | 0222-23-105A | |
| | SH-1061B (70-84) | Cam 1 2.3. | 44.960 44.960 | 49.034 49.034 | 2.015 2.015 | 24.13 18.13 | 0.019-0.069 0.019-0.069 | 7.7-8.3 | 0221-23-150 | |
| | PB-1114J (70-84) | P.B. 1-4 | 21.990 | 25.021 | 1.535 | 28.00 | 0.003-0.021 | | 0107-11-212 | |
| | PC 4 cyl 70 x 64 985cc TC 4 cyl 73 x 76 1272cc R2 4 cyl 86 x 94 2184cc RF 4 cyl 86 x 86 1998cc | MS-1113GP (70-78) | Main 1.2.4. 3.5. | 62.955 62.955 | 67.019 67.019 | 2.008 2.008 | 20.00 23.00 | 0.025-0.079 0.025-0.079 | 6.0-6.5 | 0324-23-151A |
| | | TW-1113K (70-78) | T.W. No.5 | (I.D.)70.0 | (O.D.)80.0 | 2.000 | | | | 0324-11-380 |
| | | CB-1082A (70-78) | C.R. 1-4 | 44.955 | 48.017 | 1.510 | 19.50 | 0.027-0.073 | 3.5-4.0 | 0249-23-105 |
| | | PB-1082J (70-78) | P.B. 1-4 | 19.990 | 23.021 | 1.535 | 24.00 | 0.003-0.015 | | 0249-11-213 |
| MS-2007A (83-ON) | | Main 1.2.4.5. 3 | 59.955 59.955 | 64.019 64.019 | 2.013 2.013 | 19.00 21.00 | 0.025-0.074 0.025-0.074 | 8.4-9.0 | RF01-23-135A | |
| TW-2007A (83-ON) | | T.W. No.3 | (I.D.)69.05 | (O.D.)84.4 | | | | | RF01-23-115 | |
| CB-2004A (83-ON) | | C.R. 1-4 | 50.955 | 54.017 | 1.510 | 21.00 | 0.023-0.065 | 6.6-7.0 | RF01-23-105 | |
| PB-2007J (83-ON) | | P.B. 1-4 | 25.000 | 28.033 | 1.530 | 26.80 | 0.014-0.030 | | RF01-11-213 | |
| S2 4 cyl 88.9 x 89 2209cc | | MS-1181GP (79-86) | Main 1-5 | 65.000 | 69.026 | 1.983 | 28.60 | 0.040-0.105 | 11-11.7 | 1456-23-110 |
| | | TW-1181A (79-86) | T.W. No.3 | (I.D.)73.55 | (O.D.)90.3 | 2.325 | | | | 1456-23-115 |
| | CB-1181GP (79-86) | C.R. 1-4 | 53.000 | 56.709 | 1.833 | 28.50 | 0.036-0.088 | 6.9-7.5 | 1456-23-105A | |
| | PB-1181J (79-86) | P.B. 1-4 | 28.000 | 31.039 | 1.530 | 26.80 | 0.014-0.035 | | 1456-11-213 | |

MAZDA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| VA 4 cyl 82 x 94 1985cc | MS-1141A (71-79) | Main | | | | | | | 0552-23-140 |
| | | 1 | 62.955 | 67.020 | 2.007 | 24.50 | 0.036-0.074 | 8.4-9.0 | |
| | | Δ2 | 62.955 | 67.020 | 2.007 | 36.00 | 0.036-0.074 | | |
| | 3 | 62.955 | 67.020 | 2.007 | 30.00 | 0.036-0.074 | | | |
| | CB-1141A (71-79) | C.R. | | | | | | | 0552-23-105 |
| | | 1-4 | 52.955 | 56.020 | 1.510 | 20.80 | 0.030-0.069 | 4.8-5.3 | |
| | SH-1141B (71-79) | Cam | | | | | | | |
| | | 1 | 49.990 | 53.030 | 1.505 | 25.00 | 0.010-0.083 | | |
| | | 2 | 48.990 | 52.030 | 1.505 | 28.00 | 0.010-0.083 | | |
| | PB-1114J (71-79) | P.B. | | | | | | | 0107-11-212 |
| 1-4 | | 21.990 | 25.021 | 1.535 | 28.00 | 0.003-0.021 | | | |
| XA 4 cyl 88.9 x 101.6 2522cc XB 4 cyl 92 x 101.6 2701cc | MS-2000GP (XA 67-80) (XB 72-77) | Main | | | | | | | S501-23-110 |
| | | 1-5 | 69.825 | 74.092 | 2.102 | 28.60 | 0.055-0.114 | 11-11.7 | |
| | TW-1075J (XA 67-80) (XB 72-77) | T.W. | | | | | | | |
| | | No.3 | (I.D.)78.5 | (O.D.)95.0 | 2.305 | | | | |
| | CB-1075GP (XA 67-80) (XB 72-77) | C.R. | | | | | | | 0527-23-105 |
| | | 1-4 | 57.125 | 60.846 | 1.842 | 28.68 | 0.030-0.076 | 5.5-6.2 | |
| | PB-1075J (XA 67-80) (XB 72-77) | P.B. | | | | | | | |
| | | 1-4 | 31.749 | 34.955 | 1.620 | 26.80 | 0.012-0.033 | | |
| | PB-2000J (XA 67-80) (XB 72-77) | P.B. | | | | | | | S501-11-213 |
| | | 1-4 | | | | | | | |
| YA 6 cyl 88.9 x 101.6 3783cc ZB 6 cyl 92 x 101.6 4052cc ZB 6 cyl 88.9 x 101.6 3783cc | MS-2002GP (69-ON) | Main | | | | | | | V101-23-110 |
| | | 1-7 | 69.825 | 74.092 | 2.102 | 28.60 | 0.056-0.114 | 11-11.7 | |
| | TW-1075J (69-ON) | T.W. | | | | | | | |
| | | No.4 | (I.D.)78.5 | (O.D.)95.0 | 2.305 | | | | |
| | CB-1097GP (69-79) | C.R. | | | | | | | 0784-23-105 |
| | | 1-6 | 57.125 | 60.846 | 1.842 | 28.68 | 0.036-0.076 | 5.5-6.2 | |
| | CB-2002GP (80-ON) | C.R. | | | | | | | |
| | | 1-6 | 57.125 | 60.846 | 1.838 | 28.60 | 0.036-0.076 | 5.5-6.2 | |
| | PB-1097J (69-ON) | P.B. | | | | | | | |
| | | 1-6 | 31.749 | 34.955 | 1.620 | 26.80 | 0.014-0.044 | | |

MITSUBISHI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|------------------------|----------------------------|------------------|-------------------|----------------|----------------------------|---------------------------|--|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 4D30 4 cyl 100 x 105 3298cc 4D31 4 cyl 100 x 105 3298cc 4D32 4 cyl 104 x 105 3567cc 4D33 4 cyl 104 x 105 3567cc | MS-1807GP (79-ON) (MS-1160GP) | Main 1-5 | 77.950 | 82.020 | 2.005 | 27.00 | 0.036-0.098 | 18.00 | ME011530 |
| | TW-1055K (79-ON) | T.W. No.5 | (I.D.)85.5 | (O.D.)103.5 | 2.450 | | | | ME020328 |
| | CB-1160GP (79-83) | C.R. 1-4 | 59.965 | 64.019 | 2.002 | 33.00 | 0.035-0.098 | 10.5 | ME012205 |
| | CB-1807GP (83-ON) | C.R. 1-4 | 59.965 | 64.019 | 2.000 | 33.00 | 0.035-0.098 | 10.5 | ME999250 |
| | SH-1160B (79-83) | Cam 1 | 54.460 | 58.519 | 2.000 | 41.00 | 0.040-0.090 | | ME029225 |
| | | 2 | 54.460 | 58.019 | 1.750 | 26.00 | 0.040-0.090 | | ME029027 |
| | | 3 | 52.960 | 57.019 | 2.000 | 30.00 | 0.040-0.090 | | ME023432 |
| | SH-1807B (83-ON) | Cam 1 | 54.460 | 58.519 | 2.000 | 4.100 | | | ME011593 |
| | | 2 | 54.460 | 58.019 | 1.750 | 21.00 | | | ME011594 |
| | | 3 | 52.960 | 57.019 | 2.000 | 21.00 | | | |
| | PB-1160J (79-83) | P.B. 1-4 | 34.000 | 37.025 | 1.535 | 39.00 | 0.020-0.050 | | ME012257 ME020449 |
| | PB-1807J (83-ON) | P.B. 1-4 | 34.000 | 37.025 | 1.540 | 38.85 | 0.020-0.050 | | ME012249 ME012255 |
| 4D55 4 cyl 91.1 x 90 2346cc | MS-1131A (80-ON) | Main 1.2.4.5. Δ3 | 66.000 66.000 | 70.021 70.021 | 1.990 1.990 | 25.00 30.90 | 0.020-0.076 0.020-0.076 | 7.5-8.5 | MD050363 |
| | CB-1131A (80-ON) | C.R. 1-4 | 53.000 | 56.021 | 1.494 | 25.00 | 0.014-0.070 | 4.5-4.8 | MD050365 |
| | PB-1802J (80-ON) (SF) | P.B. 1-4 | 29.000 | 32.025 | 1.800 | 31.70 | | | MD050009 |
| 4D65 4 cyl 80.6 x 88 1795cc 4D68 4D68T | MS-1821A (84-ON) (MS-1164A) | Main 1.2.4.5. Δ3 | 57.000 57.000 | 61.020 61.020 | 1.995 1.995 | 23.00 28.90 | 0.020-0.082 0.020-0.082 | 5.0-5.5 | MD071273 MD002273 MD002343 MD006904 MD040682 |
| | CB-1085A (84-ON) | C.R. 1-4 | 45.000 | 48.015 | 1.498 | 23.50 | 0.014-0.063 | 3.2-3.5 | MD071298 MD002813 MD002843 MD040704 |
| | PB-1821J (84-ON) | P.B. 1-4 | 25.000 | 28.025 | 1.500 | 28.25 | | | MD060467 |

MITSUBISHI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|-------------------------------|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 4DR5 4 cyl 92 x 100 2659cc 4DR6T 4 cyl 4DR7 4 cyl | M1-1115GP (70-ON) | Main 1-5 | 69.955 | 74.020 | 2.000 | 28.00 | 0.045-0.085 | 10.-11 | 31409-10010 |
| | TW-1115K (70-ON) | T.W. No.5 | (I.D.)77.0 | (O.D.)95.0 | 2.450 | | | | 31309-08101 |
| | C1-1115GP (70-ON) | C.R. 1-4 | 57.965 | 62.019 | 2.000 | 32.00 | 0.035-0.081 | 8.5-9.5 | 31619-02100 |
| | SH-1078B (70-ON) | Cam 1 | 54.460 | 57.019 | 1.245 | 36.00 | 0.040-0.119 | | 31307-13101 |
| | | 2 | 54.460 | 57.019 | 1.245 | 26.00 | 0.040-0.119 | | 31307-13301 |
| | | 3 | 53.960 | 57.019 | 1.495 | 26.00 | 0.040-0.119 | | |
| | PB-1078J (70-86) | P.B. 1-4 | 28.000 | 31.025 | 1.530 | 36.00 | 0.020-0.051 | | 31619-0070 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4G41 4 cyl 76.5 x 75 1378cc 4G42 4 cyl 71 x 75 1187cc | MS-1024GP* (71-79) | Main 1-3 | 63.993 | 68.021 | 1.993 | 25.00 | 0.021-0.070 | 5.0-5.5 | MD0101780 |
| | TW-1024B* (71-79) | T.W. No.1 | (I.D.)34.0 | (O.D.)41.5 | 3.585 | | | | MD010350 MD010351 |
| | CB-1025GP* (71-79) | C.R. 1-4 | 52.000 | 55.021 | 1.493 | 22.00 | 0.014-0.063 | 3.0-3.8 | MD010589 |
| | SH-1024B* (71-79) | Cam 1 | 44.990 | 48.025 | 1.492 | 19.50 | 0.040-0.090 | | MD010340 |
| | | 2 | 43.990 | 47.025 | 1.492 | 13.00 | 0.040-0.090 | | |
| | | 3 | 42.990 | 46.025 | 1.492 | 13.00 | 0.040-0.090 | | |
| | | 4 | 41.990 | 45.025 | 1.492 | 19.50 | 0.040-0.090 | | |
| | PB-1024J* (71-79) | P.B. 1-4 | 19.000 | 21.021 | 1.030 | 26.70 | 0.006-0.020 | | MD010707 |
| | | | | | | | | | |
| | | | | | | | | | |
| 6D10 6 cyl 105 x 115 5974cc 6D11 6 cyl 105 x 130 6754cc 6D14 6 cyl 110 x 115 6557cc 6D15 6 cyl 113 x 115 6919cc | MS-1145GP (74-87) | Main 1-7 | 79.965 | 85.022 | 2.500 | 29.00 | 0.045-0.107 | 15-18 | ME031525 |
| | TW-1145K (74-87) | T.W. No.7 | (I.D.)89.2 | (O.D.)109.0 | 2.450 | | | | ME031059 |
| | CB-1820GP (74-87) | C.R. 1-6 | 64.960 | 69.019 | 2.000 | 34.00 | 0.060-0.119 | 10-12 | ME032518 |
| | PB-1145J (74-86) | P.B. 1-6 | 38.000 | 41.025 | 1.530 | 42.00 | 0.020-0.050 | | ME032014 |
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*Available until inventory is depleted.

MITSUBISHI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 6D20 6 cyl 125 x 140 10308cc 6D21 6 cyl 125 x 140 10308cc | MS-1162GP* (76-ON) (6D22 83-ON) | Main 1-7 | 99.920 | 106.022 | 3.000 | 31.00 | 0.080-0.158 | 38.00 | ME052053 |
| 6DR5 6 cyl 92 x 100 3988cc | M1-1115GP (70-ON) | Main 1-7 | 69.955 | 74.020 | 2.000 | 28.00 | 0.045-0.097 | 10-11 | 31409-10010 |
| | TW-1115K (70-ON) | T.W. No.7 | (I.D.)77.0 | (O.D.)95.0 | 2.450 | | | | 31309-08101 |
| | C1-1115GP (70-ON) | C.R. 1-6 | 57.965 | 62.019 | 2.000 | 32.00 | 0.035-0.081 | 8.5-9.5 | 31619-02100 |
| | SH-1115B (70-ON) | Cam 1 | 54.460 | 57.019 | 1.245 | 36.00 | 0.040-0.119 | | 31307-13101 |
| | | 2 | 54.460 | 57.019 | 1.245 | 26.00 | 0.040-0.119 | | 31307-13401 |
| | | 3 | 53.960 | 57.019 | 1.495 | 26.00 | 0.040-0.119 | | |
| | 4 | 52.960 | 57.019 | 1.995 | 26.00 | 0.040-0.119 | | | |
| | PB-1115J (70-86) | P.B. 1-6 | 28.000 | 31.025 | 1.530 | 36.00 | 0.020-0.051 | | 31619-0070 |
| 6G71 V6 74.7 x 76 1998cc 6G72 v6 91.1 X 76 2972CC | MS-1822GP (86-ON) | Main 1-4 | 59.884 | 64.020 | 1.991 | 18.00 | 0.024-0.078 | 9.0-10.0 | MD105269 |
| | TW-1822GP (86-ON) | T.W. | (I.D.)66.25 | (O.D.)77.70 | 1.970 | | | | MD128659 |
| | CB-1822A (86-92) (6G72) | C.R. 1-6 | 49.975 | 53.020 | 1.502 | 15.50 | 0.015-0.065 | 5.0-5.3 | MD105277 |
| | CB-1823A (86-ON) (6G71) | C.B. 1-6 | 45.000 | 48.000 | 1.492 | 15.50 | | | MD124592 |

*Available until inventory is depleted.

MITSUBISHI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| G11B 4 cyl 69.5 x 82 1244cc | MS-1818A (77-ON) (MS-1169A) | Main 1.2.4.5. Δ3 | 48.000 | 52.020 | 1.990 | 19.00 | 0.020-0.074 | 5.0-5.5 | MD030573 MD030126 |
| | | | 48.000 | 52.020 | 1.990 | 23.90 | | | |
| G12B 4 cyl 74 x 82 1410cc | CB-1169A (77-85) | C.R. 1-4 | 42.000 | 45.020 | 1.493 | 17.50 | 0.014-0.068 | 3.2-3.5 | MD030516 |
| G13B 4 cyl 71 x 82 1298cc | CB-1825A (85-ON) | C.R. 1-4 | 42.000 | 45.020 | 1.493 | 15.50 | | | MD143090 |
| G15B 4 cyl 75.5 x 82 1468cc | | | | | | | | | |
| 4G11 4 cyl 69.5 x 82 1244cc | | | | | | | | | |
| 4G12 4 cyl 74 x 82 1410cc | | | | | | | | | |

MITSUBISHI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Posi- tion | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--------------------------------------|---------------------|----------------------------|----------------------------|-------------------------|-------------------------|---|---------------------------|----------------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| G31B 4 cyl 74.5 x 86 1499cc | MS-1821A | Main | | | | | | | MD002273 |
| 4G37 4 cyl 80.6 x 86 1755cc | (70-88) (MS-1164A) (MS-1085GP) | 1.2.4.5. Δ3 | 57.000 57 | 61.020 61.02 | 1.995 1.995 | 23.00 28.9 | 0.020-0.082 0.020-0.082 | 5.0-5.5 5.0-5.5 | MD002343 MD006904 MD040682 |
| G32B 4 cyl 76.9 x 86 1597cc | CB-1085A (70-88) | C.R. 1-4 | 45.000 | 48.015 | 1.498 | 23.50 | 0.014-0.063 | 3.2-3.5 | MD002813 MD002843 MD040704 |
| G33B 4 cyl 73 x 86 1439cc | BB-1085A (4G32/G32B/4G35) | B.B. 1 2 | 38.975 35.976 | 42.025 39.025 | 1.505 1.495 | 19.00 16.00 | 0.021-0.076 0.043-0.098 | | |
| G37B 4 cyl 60.6 x 88 1755cc | BB-1164A (G62B/G63B/4G63) | B.B. 1 2 | 41.975 40.967 | 45.025 44.025 | 1.505 1.495 | 19.00 21.00 | 0.025-0.080 0.025-0.080 | | |
| G62B 4 cyl 80.6 x 88 1795cc | BB-1811A | B.B. 1 2 3 | 41.975 40.967 40.967 | 45.025 44.025 44.025 | 1.505 1.495 1.495 | 19.00 21.00 21.00 | 0.025-0.080 0.025-0.080 0.025-0.080 | | |
| G63B 4 cyl 85 x 88 1997cc | | | | | | | | | |
| 4G30 4 cyl 73 x 77 1289cc | | | | | | | | | |
| 4G31 4 cyl 74.5 x 86 1499cc | | | | | | | | | |
| 4G32 4 cyl 76.9 x 86 1597cc | | | | | | | | | |
| 4G33 4 cyl 73 x 86 1439cc | | | | | | | | | |
| 4G35 4 cyl 79 x 86 1686cc | | | | | | | | | |
| 4G36 4 cyl 73 x 74 1238cc | | | | | | | | | |
| 4G63 4 cyl 85 x 88 1997cc | | | | | | | | | |

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| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| G51B 4 cyl 81 x 90 1855cc | MS-1131GP (73-78) | Main 1.2.4.5. Δ3 | 66.000 | 70.021 | 1.990 | 25.00 | 0.020-0.076 | 7.5-8.5 | MD020381 MD050360 |
| | | | 66.000 | 70.021 | 1.990 | 30.95 | 0.020-0.076 | | |
| 4G51 4 cyl 81 x 90 1855cc | MS-1819A (G52B/G52B/4G52) (78-ON) | Main 1.2.4.5. Δ3 | 60.000 | 64.02 | 1.990 | 25.00 | 0.020-0.081 | 7.5-8.5 | MD026440 |
| | | | 60.000 | 64.02 | 1.990 | 30.90 | 0.020-0.081 | | |
| G52B 4 cyl 84 x 90 1995cc | CB-1131GP (73-ON) | C.R. 1-4 | 53.000 | 56.021 | 1.494 | 25.00 | 0.014-0.070 | 4.5-4.8 | MD024856 MD026430 |
| | | | | | | | | | |
| 4G52 4 cyl 84 x 90 1995cc | BB-1131A (73-78) | B.B. 2 1 | 43.000 | 46.000 | 1.480 | 20.00 | | | |
| | | | 23.000 | 26.000 | 1.510 | 18.00 | | | |
| G54B 4 cyl 91.1 x 98 2555cc | | | | | | | | | |
| 4G54 4 cyl 91.9 x 98 2555cc | | | | | | | | | |

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| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|---|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|---|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| A12 4 cyl 73 x 70 1171cc | MS-1087GP | Main | | | | | | | 12207-M7201 |
| | | 1.5 | 49.964 | 53.667 | 1.835 | 22.00 | 0.020-0.099 | 5.0-5.3 | |
| | | 2.4 | 49.964 | 53.667 | 1.835 | 18.00 | 0.020-0.099 | | |
| | | | Δ3 | 49.964 | 53.667 | 1.835 | 26.95 | 0.020-0.099 | |
| | A14 4 cyl 76 x 77 1397cc | CB-1045GP (66-81) SH-1019B (66-81) | C.R. | | | | | | |
| 1-4 | | | 44.974 | 48.011 | 1.508 | 19.50 | 0.030-0.072 | 3.2-3.8 | |
| A15 4 cyl 76 x 82 1487cc | | Cam | | | | | | | |
| | | 1 | 43.796 | 47.025 | 1.585 | 23.50 | 0.024-0.097 | | |
| | | 2 | 43.296 | 46.525 | 1.585 | 14.00 | 0.024-0.097 | | |
| | | 3 | 42.796 | 46.025 | 1.585 | 14.00 | 0.024-0.097 | | |
| | | 4 | 42.296 | 45.525 | 1.585 | 14.00 | 0.024-0.097 | | |
| | | 5 | 41.221 | 44.450 | 1.585 | 14.00 | 0.024-0.097 | | |
| BD2 4 cyl 96 x 102 2953cc | MS-1190GP (89-91) TW-1028GP (89-91) | Main | | | | | | | 12207-54T10 |
| | | 1-5 | 70.920 | 75.000 | 2.013 | 26.00 | 0.035-0.090 | 17.0-18.0 | |
| BD25 4 cyl 96 x 102 2953cc | CB-1194GP (89-91) SH-1190B (89-91) | T.W. | (I.D.)78.6 | (O.D.)93.8 | 2.325 | | | | |
| | | C.R. | | | | | | | |
| | | 1-4 | 56.920 | 60.000 | 1.513 | | | | |
| | | Cam | | | | | | | |
| | | 1 | 50.740 | 53.830 | 1.520 | 20.50 | 0.020-0.109 | | |
| | | 2 | 50.540 | 53.630 | 1.520 | 22.00 | 0.020-0.109 | | |
| | | 3 | 50.340 | 53.430 | 1.520 | 22.00 | 0.020-0.109 | | |
| 4 | 50.140 | 53.230 | 1.520 | 22.00 | 0.020-0.109 | | | | |
| | | 5 | 49.940 | 53.030 | 1.520 | 22.00 | 0.020-0.109 | | |
| BD30 4 cyl 96 x 102 2953cc | PB-1194J (89-91) | P.B. | | | | | | | 12030-31N00 |
| | | 1-4 | 30.000 | 33.000 | 1.530 | 33.00 | | | |
| CA16 4 cyl 78 x 83.6 1598cc | MS-1173GP (81-90) MS-1217A (90-ON) | Main | | | | | | | 12207-D0200 12207-54A00 12207-57J00 |
| | | 1.2.4.5 | 52.964 | 56.667 | 1.835 | 22.00 | 0.030-0.092 | 4.5-5.5 | |
| | | Δ3 | 52.964 | 56.667 | 1.835 | 27.95 | 0.030-0.092 | | |
| CA18 4 cyl 83 x 83.6 1809cc | CB-1173GP (81-90) | Main | | | | | | | 12261-54A00 12211-D0200 12211-D2800 |
| | | 1.2.4.5. | 52.964 | 56.667 | 1.830 | 20.00 | 0.030-0.089 | | |
| CA20 4 cyl 84.5 x 88 1973cc | PB-1205J (CA16/18/20 81-90) | 3 | 52.964 | 56.667 | 1.830 | 27.95 | 0.030-0.089 | | |
| | | C.R. | | | | | | | |
| | | 1-4 | 44.974 | 48.011 | 1.508 | 18.50 | 0.026-0.072 | 3.2-3.8 | |
| CD17 4 cyl 80 x 83.6 1680cc | PB-1173J (CD17 82-85) | C.R. | | | | | | | 12111-22J00 12030-D4200 |
| | | 1-4 | 49.961 | 53.013 | 1.504 | 20.00 | 0.017-0.064 | | |
| CD20 4 cyl 84.5 x 88 1973cc | PB-1217J (CD20 90-ON) | P.B. | | | | | | | 12030-16A01 12030-57J00 |
| | | 1-4 | 20.000 | 23.000 | 1.535 | 20.80 | | | |
| | | P.B. | | | | | | | |
| | | 1-4 | 24.000 | 28.000 | 2.030 | 24.20 | 0.025-0.044 | | |
| | | P.B. | | | | | | | |
| | | 1-4 | 25.000 | 28.000 | 1.530 | 24.70 | 0.025-0.044 | | |

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|-------------------------------|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| D11 4 cyl 73 x 68 1138cc | MS-1045GP (66-78) | Main | | | | | | | |
| | | 1.3 | 52.310 | 56.030 | 1.835 | 30.00 | 0.020-0.080 | 10.5-11.0 | |
| | 2 | 52.310 | 56.030 | 1.835 | 34.00 | 0.020-0.080 | | | |
| D12 4 cyl 73 x 71.6 1198cc | TW-1000B (66-78) | T.W. | | | | | | | |
| | | 2 | (I.D.)56.2 | (O.D.)69.8 | 2.345 | | | 12280-K5100 | |
| | CB-1036GP (66-78) | C.R. | | | | | | | |
| | | 1-4 | 43.970 | 47.016 | 1.508 | 25.00 | 0.020-0.066 | 3.3-3.5 | 12111-D0801 |
| E13 4 cyl 76 x 70 1270cc | MS-1174GP (81-ON) | Main | | | | | | | |
| | | 1.5 | 49.964 | 53.668 | 1.830 | 22.00 | 0.023-0.082 | 5.0-6.0 | |
| | | 2.4 | 49.964 | 53.668 | 1.830 | 18.00 | 0.023-0.082 | | |
| E15 4 cyl 76 x 82 1487cc | CB-1174GP (81-ON) | Δ3 | 49.964 | 53.668 | 1.830 | 26.95 | 0.023-0.082 | | |
| | | C.R. | | | | | | | |
| | | 1-4 | 39.974 | 43.013 | 1.503 | 17.00 | 0.030-0.089 | 3.2-3.8 | 12111-11M00 |
| E16 4 cyl 76 x 88 1597cc | JB-1174B (81-ON) | J.B. | | | | | | | |
| | | 1 | 32.000 | 35.000 | 1.495 | 21.50 | 0.027-0.110 | 13165-01M00 | |
| | | 2 | 28.600 | 31.600 | 1.495 | 16.00 | 0.027-0.110 | 13166-01M00 | |
| ED6 6 cyl 100 x 120 5654cc | MS-1135GP (75-ON) | Main | | | | | | | |
| | | 1-7 | 75.940 | 80.000 | 1.995 | 26.00 | 0.050-0.116 | 17.0-17.5 | 12207-Z5500 |
| | TW-1122J (75-ON) | T.W. | | | | | | | |
| | | 6 | (I.D.)86.0 | (O.D.)101.8 | 3.000 | | | | 12280-Z5025 |
| | CB-2802GP (75-ON) | C.R. | | | | | | | |
| | | 1-6 | 61.945 | 66.000 | 1.998 | 32.00 | 0.039-0.105 | 11.5-12.0 | 12111-O1T00 12117-Z5500 |
| | SH-1135B (75-ON) | Cam | | | | | | | |
| | | 1 | 57.340 | 60.400 | 1.515 | 28.00 | 0.015-0.105 | | |
| | | 2 | 57.140 | 60.200 | 1.515 | 26.00 | 0.015-0.105 | | |
| | | 3 | 56.940 | 60.000 | 1.515 | 26.00 | 0.015-0.105 | | |
| PB-1135J (75-ON) | 4 | 56.740 | 59.800 | 1.515 | 26.00 | 0.015-0.105 | | | |
| | P.B. | | | | | | | | |
| | | 1-6 | 34.000 | 38.000 | 2.020 | 35.00 | 0.030-0.105 | 12030-Z5000 | |

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| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|-------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| ED30 4 cyl 98 x 98 2956cc ED33 4 cyl 100 x 105 3298cc FD35 4 cyl 100 x 105 3298cc | MS-1180GP (73-ON) TW-1122J (73-ON) | Main 1-5 | 75.940 | 80.000 | 1.997 | 28.00 | 0.050-0.116 | 17.0-17.5 | 12207-J2000 |
| | | T.W. 4 | (I.D.)86.0 | (O.D.)101.8 | 3.000 | | | | 12280-J2000 12280-Z5025 |
| | CB-1122GP (73-82) CB-2801GP (83-ON) | C.R. 1-4 | 59.945 | 64.000 | 2.000 | 34.00 | 0.039-0.105 | 11.5-12.0 | 12111-J2000 |
| | | C.R. 1-4 | 61.945 | 66.000 | 1.998 | | | | 12111-01T00 12117-Z5500 |
| | SH-1122B (73-ON) | Cam 1 | 57.340 | 60.400 | 1.515 | 28.00 | 0.015-0.105 | 11.5-12.0 | 13202-J2000 |
| | | 2 | 57.140 | 60.200 | 1.515 | | | | 0.015-0.105 |
| | PB-1122J (73-82) PB-1180J (83-ON) | P.B. 1-4 | 56.940 | 60.000 | 1.515 | 26.00 | 0.015-0.105 | 11.5-12.0 | 12030-J2000 |
| | | P.B. 1-4 | 32.000 | 36.000 | 2.030 | | | | 35.00 |
| | PB-1180J (83-ON) | P.B. 1-4 | 34.000 | 38.000 | 2.020 | 35.00 | 0.025-0.041 | 11.5-12.0 | 12030-Z5000 |
| | | | | | | | | | |
| FE6 6 cyl 108 x 126 6925cc FE6-T 6 cyl 108 x 126 6925cc | MS-2800GP (84-ON) TW-2800J (84-ON) | Main 1-7 | 77.950 | 83.000 | 2.500 | 27.00 | 0.030-0.090 | | 12213-Z5500 |
| | | T.W. | (I.D.)89.25 | (O.D.)103.8 | 2.970 | | | | 12280-Z5501 |
| | CB-2800GP (84-ON) | C.R. 1-6 | 64.945 | 69.000 | 2.000 | 32.00 | 0.035-0.090 | | 12117-Z5561 |
| | | | | | | | | | |
| | SH-1135B (84-ON) | Cam 1 | 57.340 | 60.400 | 1.515 | 28.00 | 0.015-0.105 | | 13003-Z5025 |
| | | 2 | 57.140 | 60.200 | 1.515 | | | | 26.00 |
| | PB-1083J (84-ON) | P.B. 1-6 | 56.940 | 60.000 | 1.515 | 26.00 | 0.015-0.105 | | 12030-95000 |
| | | | 56.740 | 59.800 | 1.515 | | | | 26.00 |
| | PB-1083J (84-ON) | P.B. 1-6 | 36.000 | 40.000 | 2.020 | 39.00 | 0.025-0.040 | | 12030-95000 |
| | | | | | | | | | |
| GA15E 4 cyl 73.6 x 88 1497cc GA13/14 GA16i | MS-1208A (87-ON) TW-1208A (87-ON) | Main 1-5 | 49.964 | 53.668 | 1.830 | 17.00 | 0.020-0.094 | 5.0 | 12215-77A00 |
| | | T.W. | (I.D.)56.02 | (O.D.)71.00 | 1.970 | | | | 12215-55A00 12280-77A00 |
| | CB-1208A (87-ON) | C.R. 1-4 | 39.974 | 43.013 | 1.508 | 17.00 | 0.010-0.062 | 1.5 + 35° | 12111-77A00 |
| | | | | | | | | | |
| | PB-1208J (87-ON) | P.B. 1-4 | 19.000 | 22.000 | 1.515 | 21.80 | | | 12030-77A00 |
| | | | | | | | | | |
| | | | | | | | | 12030-53Y00 | |

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | |
|--|---------------------------------|----------|---|-----------------------------|-------------------|--------------|------------------------|---------------------------|--------------------------|-------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | |
| H20 4 cyl 87.2 x 83 1982cc U20 4 cyl 87.2 x 83 1982cc | MS-1042GP (67-82) | Main | 1.5 | 62.955 | 66.658 | 1.835 | 28.00 | 0.020-0.066 | 10.0-11.0 | 12207-78400 | |
| | | | 2.4 | 62.955 | 66.658 | 1.835 | 22.00 | 0.020-0.066 | | | |
| | | | Δ3 | 62.955 | 66.658 | 1.835 | 33.95 | 0.020-0.066 | | | |
| | CB-1002GP (67-82) | C.R. | 1-4 | 51.974 | 55.013 | 1.506 | 24.00 | 0.020-0.061 | 4.9-6.1 | 12111-P5100 | |
| | | | Cam | 1 | 45.440 | 48.666 | 1.585 | 24.00 | 0.020-0.090 | 13002-71204 | |
| | 2 | 43.910 | | 47.142 | 1.585 | 22.00 | 0.020-0.090 | | | | |
| | 3 | 41.230 | | 44.450 | 1.585 | 24.00 | 0.020-0.090 | | | | |
| | PB-1002J (67-82) | P.B. | 1-4 | 22.000 | 24.033 | 1.045 | 28.70 | 0.005-0.014 | 12030-32200 | | |
| | | | J 4 cyl 73 x 77.6 1299cc J13 4 cyl 73 x 77.6 1299cc J15 4 cyl 78 x 77.6 1483cc J16 4 cyl 78 x 82 1567cc J18 4 cyl | MS-1091GP (70-ON) | Main | 1-3 | 50.825 | 54.521 | 1.835 | 28.00 | 0.023-0.068 |
| | TW-1000B (70-ON) | T.W. | | | | 2 | (I.D.)56.2 | (O.D.)69.8 | 2.345 | | |
| CB-1007GP (70-85) | | | | C.R. | 1-4 | 47.653 | 51.346 | 1.835 | 22.00 | 0.023-0.071 | 3.0-3.5 |
| | CB-1204GP (J18 80-ON) | C.R. | | | 1-4 | 47.635 | 50.673 | 1.500 | 20.00 | 0.026-0.077 | 3.0-3.5 |
| SH-1006B (70-ON) | | | | Cam | 1 | 45.440 | 48.666 | 1.585 | 37.30 | 0.031-0.106 | 13002-B5000 |
| | 2 | 43.910 | | | 47.142 | 1.585 | 22.00 | 0.031-0.106 | | | |
| | 3 | 41.230 | | | 44.450 | 1.585 | 20.60 | 0.031-0.106 | | | |
| KA-24 4 cyl 89 x 96 2388cc | MS-1209GP (88-ON) | Main | | 1.2.4.5 | 59.975 | 63.672 | 1.835 | 19.00 | 0.013-0.097 | 12215-40F00 | |
| | | | | Δ3 | 59.975 | 63.72 | 1.835 | 26.95 | 0.013-0.097 | | |
| | CB-1209GP (88-ON) | C.R. | | 1-4 | 49.974 | 53.013 | 1.508 | 20.00 | 0.010-0.062 | 12111-40F00 | |
| | | | PB-1209J (88-ON) | P.B. | 1-4 | | | | | 12030-40F00 | |

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | |
|---|--|---------------------------------|----------------------------|-----------------|-------------------|--------------|----------------------------------|---------------------------|--------------------------|-------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | |
| L13 4 cyl 83 x 59.9 1296cc L14 4 cyl 83 x 66 1428cc Z/L16 4 cyl 83 x 73.7 1595cc Z/L18 4 cyl 85 x 78 1770cc | MS-1043GP (L13/14/16/18 67-82) (Z16/18 78-79) | Main | 1 | 54.955 | 58.658 | 1.835 | 26.00 | 0.020-0.093 | 12207-23001 | | |
| | | | 2.4 | 54.955 | 58.658 | 1.835 | 24.00 | 0.020-0.093 | | | |
| | | | | C.R. | Δ3 | 54.955 | 58.658 | 1.835 | | 31.95 | 0.020-0.093 |
| | | | | | 5 | 54.955 | 58.658 | 1.835 | | 26.00 | 0.020-0.093 |
| | | | | | 1-4 | 49.974 | 53.013 | 1.506 | | 22.00 | 0.024-0.070 |
| | | | | | | | L14.16(3.2-3.8) L18 (3.7-4.0) | 12111-73400 | | | |
| L20 6 cyl 78 x 69.7 1998cc L24 6 cyl 80 x 73.7 2393cc L26 6 cyl 83 x 79 2526cc L28 6 cyl 86 x 79 2753cc LD28 6 cyl 84.5 x 83 2792cc | MS-1047GP (66-ON) | Main | 1.7 | 54.955 | 58.658 | 1.835 | 26.00 | 0.020-0.093 | 12207-73400 | | |
| | | | 2.3.5.6 | 54.955 | 58.658 | 1.835 | 24.00 | 0.020-0.093 | | | |
| | | | Δ4 | 54.955 | 58.658 | 1.835 | 31.95 | 0.020-0.093 | | | |
| | | CB-1048GP (66-81) | C.R. | 1-6 | 49.974 | 53.013 | 1.506 | 22.00 | 0.024-0.070 | 12111-73400 | |
| | | | | | | | | | | | |
| | | CB-1177GP (L20 81-ON) | C.R. | 1-6 | 49.974 | 48.011 | 1.508 | 18.50 | 0.024-0.070 | 12111-D0200 | |
| | | | | | | | | | | | |

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | |
|---|---------------------------------|-----------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|----------------------------|--------------------------|-------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | |
| L20B 4 cyl 85 x 86 1952cc | MS-1183GP (80-94) | Main | | | | | | | 12207-U6001 | | |
| | | 1 | 59.955 | 63.658 | 1.835 | 26.00 | 0.020-0.066 | 7.0-8.5 | | | |
| | | 2.4 | 59.955 | 63.658 | 1.835 | 24.00 | 0.020-0.066 | | | | |
| | | Δ3 | 59.955 | 63.658 | 1.835 | 31.95 | 0.020-0.066 | | | | |
| | | 5 | 59.955 | 63.658 | 1.835 | 26.00 | 0.020-0.066 | | | | |
| | | | | | | | | | | | |
| LD20 4 cyl 85 x 86 1952cc | CB-1044GP (80-94) | C.R. | | | | | | 12111-73400 | | | |
| | | 1-4 | 49.974 | 53.013 | 1.506 | 22.00 | 0.024-0.070 | | 4.5-5.5 | | |
| LD20-T 4 cyl 85 x 86 1952cc | PB-1183J (LD20T ONLY) | P.B. | | | | | | 12030-W3400 | | | |
| | | 1-4 | 26.000 | 29.000 | 1.530 | 26.70 | 0.025-0.044 | | | | |
| Z20 4 cyl 85 x 86 1952cc | PB-1189J (LD20 ONLY) | P.B. | | | | | | 12030-V0700 | | | |
| | | 1-4 | 25.000 | 28.000 | 1.530 | 26.70 | 0.025-0.044 | | | | |
| Z24 4 cyl 89 x 96 2389cc | | | | | | | | | | | |
| | | | | | | | | | | | |
| MA10 4 cyl 66 x 68 987cc | MS-1202A (82-ON) | Main | | | | | | 12215-01B10 | | | |
| | | 1-5 | 44.971 | 49.016 | 2.008 | 17.00 | 0.021-0.061 | | 4.7-5.3 | | |
| | TW-1202A (82-ON) | T.W. | | | | | | 12280-01B00 | | | |
| | | 4 | (I.D.)51.0 | (O.D.)60.0 | 1.970 | | | | | | |
| CB-1202A (82-ON) | C.R. | | | | | | 12111-01B10 | | | | |
| | 1-4 | 39.974 | 43.013 | 1.503 | 15.00 | 0.026-0.060 | | 3.0-3.5 | | | |
| | | | | | | | | | | | |
| ND6 6 cyl 110 x 120 6842cc | MS-1193GP* (69-ON) | Main | | | | | | 12212-95000 12213-95025 | | | |
| | | 1 | 89.894 | 96.000 | 3.018 | 28.00 | 0.040-0.126 | | 24-24.8 | | |
| | | 2.3 | 89.894 | 96.000 | 3.018 | 28.00 | 0.040-0.126 | | | | |
| | | 4 | 89.894 | 96.000 | 3.018 | 43.00 | 0.040-0.126 | | | | |
| | | 5 | 89.894 | 96.000 | 3.018 | 28.00 | 0.040-0.126 | | | | |
| 6.7 | 89.894 | 96.000 | 3.018 | 28.00 | 0.040-0.126 | | | | | | |
| NE6 6 cyl 110 x 130 7412cc | TW-1083K* (67-ON) | T.W. | | | | | | 12280-95025 | | | |
| | | 7 | (I.D.)102.0 | (O.D.)117.8 | 3.010 | | | | | | |
| ND60 6 cyl 110 x 120 6842cc | CB-1083GP* (69-ON) | C.R. | | | | | | 12117-95001 | | | |
| | | 1-6 | 69.910 | 74.000 | 2.015 | 35.00 | 0.041-0.112 | | 18.0-18.5 | | |
| | | SH-1083B* (69-ON) | Cam | | | | | | | | 13003-95025 |
| | | | 1 | 57.960 | 62.030 | 2.010 | 31.00 | | | 0.020-0.109 | |
| | | | 2 | 57.760 | 61.830 | 2.010 | 28.00 | | | 0.020-0.109 | |
| | | | 3 | 57.560 | 61.630 | 2.010 | 28.00 | | | 0.020-0.109 | |
| | | | 4 | 57.360 | 61.430 | 2.010 | 43.00 | | | 0.020-0.109 | |
| | | | 5 | 57.160 | 61.230 | 2.010 | 28.00 | | | 0.020-0.109 | |
| 6 | 56.960 | | 61.030 | 2.010 | 28.00 | 0.020-0.109 | | | | | |
| 7 | 56.760 | 60.830 | 2.010 | 25.50 | 0.020-0.109 | | | | | | |
| PB-1083J (69-ON) | P.B. | | | | | | 12030-95000 | | | | |
| | 1-6 | 36.000 | 40.000 | 2.020 | 39.00 | 0.025-0.040 | | | | | |

*Available until inventory is depleted

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|---|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| P 6 cyl 85.7 x 114.3 3956cc PF 6 cyl 85.7 x 114.3 3956cc P40 6 cyl 85.7 x 114.3 3956cc | MS-1001GP* (60-79) | Main | | | | | | | 12207-58010 |
| | | Δ1 | 68.229 | 73.025 | 2.371 | 43.63 | 0.030-0.107 | 9.7-11.8 | |
| | | 2.3.5.6 | 69.300 | 73.025 | 1.835 | 26.00 | 0.030-0.107 | | |
| | | 4 | 69.300 | 73.025 | 1.835 | 41.00 | 0.030-0.107 | | |
| | 7 | 69.300 | 73.025 | 1.835 | 49.00 | 0.030-0.107 | | | |
| | | Main | | | | | | | 12207-C6001 |
| | Δ1 | | 69.300 | 73.025 | 1.835 | 40.53 | 0.030-0.106 | 10.0-12.0 | |
| | 2.3.5.6 | 69.300 | 73.025 | 1.835 | 26.00 | 0.030-0.106 | | | |
| | CB-1001GP* (60-ON) SH-1002B* (60-ON) | 4 | 69.300 | 73.025 | 1.835 | 41.00 | 0.030-0.106 | 4.9-6.2 | |
| | | 7 | 69.300 | 73.025 | 1.835 | 49.00 | 0.030-0.106 | | |
| | | C.R. | | | | | | | |
| | | 1-6 | 57.150 | 60.199 | 1.508 | 26.00 | 0.014-0.078 | | |
| | | Cam | | | | | | | |
| | | 1 | 49.149 | 52.476 | 1.646 | 29.35 | 0.012-0.102 | | |
| 2 | | 48.945 | 52.273 | 1.646 | 19.05 | 0.012-0.102 | | | |
| 3 | | 48.661 | 51.968 | 1.646 | 19.05 | 0.012-0.102 | | | |
| 4 | 48.336 | 51.664 | 1.646 | 31.75 | 0.012-0.102 | | | | |
| PD6 6 cyl 125 x 140 10308cc PE6 6 cyl 133 x 140 11670cc | MS-1084GP* (69-ON) | Main | | | | | | 2.40-24.8 | 12212-96000 |
| | | 1 | 99.894 | 106.000 | 3.018 | 35.00 | 0.040-0.126 | | |
| | | 2-3.5-7 | 99.894 | 106.000 | 3.018 | 35.00 | 0.040-0.126 | | |
| | 4 | 99.894 | 106.000 | 3.018 | 55.00 | 0.040-0.126 | | | |
| | | T.W. | | | | | | | 12280-96025 |
| | 7 | | (I.D.)112.0 | (O.D.)127.8 | 3.010 | | | | |
| | CB-1084GP* (69-ON) | C.R. | | | | | | 18.0-18.5 | 12117-96000 |
| | | 1-6 | 79.910 | 84.000 | 2.012 | 41.00 | 0.036-0.112 | | |
| | SH-1084B* (69-82) | Cam | | | | | | 0.020-0.106 | 13003-96025 |
| | | 1 | 62.740 | 66.830 | 2.020 | 34.00 | 0.020-0.106 | | |
| | | 2 | 62.540 | 66.630 | 2.020 | 28.00 | 0.020-0.106 | | |
| | | 3 | 62.340 | 66.430 | 2.020 | 39.00 | 0.020-0.106 | | |
| | | 4 | 62.140 | 66.230 | 2.020 | 28.00 | 0.020-0.106 | | |
| | 5 | 61.940 | 66.030 | 2.020 | 31.00 | 0.020-0.106 | | | |
| PB-1084J (69-ON) | P.B. | | | | | | 0.025-0.048 | 12030-96000 | |
| | 1-6 | 46.000 | 50.000 | 2.015 | 44.00 | 0.025-0.048 | | | |

*Available until inventory is depleted

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|---|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|---|--|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| RB20 6 cyl 78 x 69.7 1998cc | MS-1203GP (RB20/24/25/30/ RD28 84-ON) | Main | | | | | | | 12207-42L00 | |
| | | 1.2.3 | 54.975 | 58.658 | 1.83 | 19.00 | 0.036-0.063 | 4.7-5.3 | | |
| | | Δ4 | 54.975 | 58.658 | 1.83 | 26.90 | 0.036-0.063 | | | |
| | | 5.6.7 | 54.975 | 58.658 | 1.83 | 19.00 | 0.036-0.063 | | | |
| RB24 6 cyl | MS-1216GP (RB26 89-ON) | Main | | | | | | | 12207-12U00 | |
| | | 1-7 | 54.975 | 58.658 | 1.825 | 20.00 | 0.038-0.069 | | | |
| RB25 6 cyl 86 x 71.1 2498cc | CB-1203GP (RB20 84-89) CB-1206GP (RB30 86-ON) CB-1207A (RD28 83-ON) | Δ4 | 54.975 | 58.658 | 1.825 | 27.00 | 0.038-0.069 | | 12111-42L00 12111-67S00 12111-V7200 12111-58S00 12111-12U00 | |
| | | C.R. | | | | | | | | |
| | | 1-6 | 41.975 | 45.013 | 1.506 | 16.00 | 0.014-0.066 | 1.4-1.6 | | |
| | | C.R. | | | | | | | | |
| | | 1-6 | 49.976 | 53.013 | 1.506 | 17.00 | 0.014-0.066 | 3.9-4.5 | | |
| RB26 6 cyl 86 x 73.7 2568cc | CB-1215GP (RB24 89-91) CB-1216GP (RB25/26 89-ON) | C.R. | | | | | | | 12111-58S00 12111-12U00 | |
| | | 1-6 | 44.974 | 48.013 | 1.508 | 17.00 | 0.010-0.062 | 1) 1.4-1.6 2) 3.8-4.6 | | |
| | | C.R. | | | | | | | | |
| | | 1-6 | 51.013 | 47.974 | 1.501 | 17.00 | 0.042-0.062 | | | |
| RB30 6 cyl 86 x 85 2962cc | PB-1203J (RB20 84-89) PB-1206J (RB24/25/26/30 83-96) | P.B. | | | | | | | 12030-77A00 12030-58S00 12030-53Y00 | |
| | | 1-6 | 19.000 | 22.000 | 1.515 | 21.80 | | | | |
| | | P.B. | | | | | | | | |
| | | 1-6 | 21.004 | 24.000 | 1.530 | 21.80 | 0.025-0.044 | | | |
| RD28 6 cyl 85 x 83 2825cc | PB-1207J (RD28 83-ON) | P.B. | | | | | | | 12030-V7200 | |
| | | 1-6 | 24.994 | 38.000 | 1.525 | 24.47 | | | | |
| RF8 V8 138 x 142 16991cc | CB-1118GP* (72-ON) | C.R. | | | | | | | 12117-97008 | |
| | | 1-4/L | 84.910 | 89.000 | 2.015 | 39.20 | 0.045-0.112 | 18.0-18.5 | | |
| | 1-4/R | 84.910 | 89.000 | 2.015 | 39.20 | 0.045-0.112 | | | | |
| | SH-1118B* (72-87) | Cam | | | | | | | 13003-97128 | |
| | | 1 | 65.740 | 69.830 | 2.020 | 43.00 | 0.020-0.110 | | | |
| | | 2 | 65.940 | 70.030 | 2.020 | 25.00 | 0.020-0.110 | | | |
| | | 3 | 66.140 | 70.230 | 2.020 | 25.00 | 0.020-0.110 | | | |
| | | 4 | 66.340 | 70.430 | 2.020 | 25.00 | 0.020-0.110 | | | |
| 5 | 66.540 | 70.630 | 2.020 | 47.50 | 0.020-0.110 | | | | | |

*Available until inventory is depleted

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|---|--|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| SD20 4 cyl 83 x 92 1991cc SD22 4 cyl 83 x 100 2164cc SD23 4 cyl 89 x 92 2289cc SD25 4 cyl 89 x 100 2488cc | MS-1028GP (SD20/82 63-81) MS-1182GP (SD20/22 81-83) (SD23/25 81-ON) | Main 1-3 | 70.920 | 75.000 | 2.014 | 32.00 | 0.035-0.087 | 15.0-16.0 | 12207-37506 |
| | | Main 1-5 | 70.920 | 75.000 | 2.015 | 26.00 | 0.035-0.087 | 15.0-16.0 | 12207-V1701 |
| | TW-1028GP (63-ON) CB-1029GP (63-ON) | T.W. 2 | (I.D.)78.6 | (O.D.)93.8 | 2.325 | | | | 12280-37525 |
| | | C.R. 1-4 | 52.926 | 56.000 | 1.514 | 26.00 | 0.035-0.087 | 5.0-5.6 | 12117-37504 |
| | SH-1003B (63-ON) | Cam 1 | 45.440 | 48.666 | 1.585 | 24.00 | 0.020-0.100 | | 13002-37500 |
| | | 2 | 43.910 | 47.142 | 1.585 | 22.00 | 0.020-0.100 | | |
| | | 3 | 41.230 | 44.452 | 1.585 | 24.00 | 0.020-0.100 | | |
| | PB-1029J (SD20/22 63-81) PB-1182J (81-ON) | P.B. 1-4 | 26.000 | 29.000 | 1.535 | 30.00 | 0.013-0.046 | | 12030-37500 |
| | | P.B. 1-4 | 26.000 | 29.000 | 1.535 | 32.00 | 0.013-0.046 | | 12030-L2000 |
| | | | | | | | | | |
| SD33 6 cyl 83 x 100 3246cc | MS-1058GP (66-ON) TW-1028GP (66-ON) CB-1058GP (66-ON) | Main 1-4 | 70.920 | 75.000 | 2.014 | 32.00 | 0.035-0.087 | 15.0-16.0 | 12207-61507 |
| | | T.W. 3 | (I.D.)78.6 | (O.D.)93.8 | 2.325 | | | | 12280-37525 |
| | C.R. 1-6 | 52.926 | 56.000 | 1.514 | 26.00 | 0.035-0.087 | 5.0-5.5 | 12117-37504 | |
| | SH-1004B (66-79) | Cam 1 | 45.440 | 48.666 | 1.585 | 24.00 | 0.020-0.090 | | 13002-90010 |
| | | 2.3 | 43.910 | 47.142 | 1.585 | 22.00 | 0.020-0.090 | | |
| | | 4 | 41.230 | 44.450 | 1.585 | 24.00 | 0.020-0.090 | | |
| | SH-1191B (79-ON) | Cam 1 | 51.400 | 54.430 | 1.485 | 24.00 | 0.020-0.090 | | 12030-37500 |
| | | 2 | 51.200 | 54.230 | 1.485 | 22.00 | 0.020-0.090 | | |
| | | 3 | 51.000 | 54.030 | 1.485 | 22.00 | 0.020-0.090 | | |
| | | 4 | 50.800 | 53.830 | 1.485 | 24.00 | 0.020-0.090 | | |
| | PB-1058J (66-ON) | P.B. 1-6 | 26.000 | 29.000 | 1.535 | 30.00 | 0.013-0.046 | | |
| | | | | | | | | | |
| | SR18 4 cyl 1838cc SR20 4 cyl 1998cc | MS-1213GP TW-1213GP | Main 1-5 | 54.980 | 58.968 | 1.990 | 19.00 | 0.020-0.054 | 3.6+45° |
| T.W. | | | | | | | | | 12280-60J00 |
| C.R. 1-4 | | (I.D.)61.75 | (O.D.)83.50 | 1.950 | 17.00 | 0.042-0.062 | 1.5+60° | 12111-60J00 | |

NISSAN

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | | | |
|---|--|-------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|-------------|-------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | | | |
| TD1 4 cyl 89 x 92 2289cc TD23 4 cyl 89 x 92 2289cc TD25 4 cyl 93 x 92 2494cc TD27 4 cyl 96 x 92 2663cc | MS-1190GP (86-ON) TW-1028GP (86-ON) CB-1190GP (TD25/27 86-ON) CB-1029GP (TD1,TD23 86-ON) SH-1190B (86-ON) PB-1190J (TD25/27 86-ON) PB-1192J (TD1,TD23 86-ON) | Main 1-5 | 70.920 | 75.000 | 2.013 | 26.00 | 0.035-0.090 | 17.0-18.0 | 12207-43G01 | | | |
| | | T.W. No. | (I.D.)78.6 | (O.D.)93.8 | 2.325 | | | | 12280-37525 | | | |
| | | C.R. 1-4 | 56.926 | 60.000 | 1.513 | | | | 26.00 | 0.030-0.080 | 8.0-8.5 | 12111-43G01 |
| | | C.R. 1-4 | 52.926 | 56.000 | 1.514 | | | | 26.00 | 0.035-0.087 | 5.0-5.6 | 12111-02N01 |
| | | Cam 1 | 50.740 | 53.830 | 1.520 | | | | 20.50 | 0.020-0.109 | | 13002-43G00 |
| | | 2 | 50.540 | 53.630 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 3 | 50.340 | 53.430 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 4 | 50.140 | 53.230 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 5 | 49.940 | 53.030 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | P.B. 1-4 | 28.000 | 31.000 | 1.530 | | | | 32.80 | 0.025-0.040 | | 12030-43G00 |
| P.B. 1-4 | 26.000 | 29.000 | 1.530 | 32.80 | 0.020-0.045 | | 12030-02N00 | | | | | |
| TD3 6 cyl 96 x 96 4169cc TD42 6 cyl 96 x 96 4169cc | MS-1195GP (87-ON) TW-1028GP (87-ON) CB-1195GP (87-ON) SH-1195B (87-ON) PB-1195J (87-ON) | Main 1-7 | 70.920 | 74.981 | 2.013 | 26.00 | 0.048-0.080 | 17.0-18.0 | 12207-06J10 | | | |
| | | T.W. | (I.D.)78.0 | (O.D.)93.8 | 2.325 | | | | 12280-37525 | | | |
| | | C.R. 1-6 | 56.926 | 59.987 | 1.513 | | | | 26.00 | 0.035-0.087 | | 12111-43G01 |
| | | Cam 1 | 50.740 | 53.800 | 1.520 | | | | 20.50 | 0.020-0.109 | | 13002-06J01 |
| | | 2 | 50.540 | 53.600 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 3 | 50.340 | 53.400 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 4 | 50.140 | 53.200 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 5 | 49.940 | 53.000 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 6 | 49.740 | 52.800 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| | | 7 | 49.540 | 52.600 | 1.520 | | | | 22.00 | 0.020-0.109 | | |
| P.B. 1-6 | 28.000 | 31.000 | 1.530 | 32.80 | 0.025-0.045 | | 12030-43G00 | | | | | |
| VG30/D V6 87 x 83 2960cc | MS-1211GP (VG30 83 -ON) CB-1210A (VG30 83-ON) CB-1211GP (VG30D 86-ON) PB-1210J (VG30 83-ON) PB-1211J (VG30D 86-ON) | Main 1 | 62.975 | 66.672 | 1.830 | 22.50 | 0.010-0.099 | 9.2-10.2 | 12215-02P25 | | | |
| | | 2,3 | 62.975 | 66.672 | 1.830 | | | | 19.00 | 0.010-0.099 | 12215-F6500 | |
| | | Δ4 | 62.975 | 66.672 | 1.830 | | | | 28.80 | 0.010-0.099 | | |
| | | C.R. 1-6 | 49.974 | 53.013 | 1.508 | | | | 17.00 | 0.014-0.048 | 4.5-5.5 | 12111-02P00 |
| | | C.R. 1-6 | 49.974 | 53.013 | 1.508 | | | | 17.00 | 0.010-0.062 | 2.5+75° | 12111-30P60 |
| | | P.B. 1-6 | | | | | | | | | | 12030-21V00 |
| | | P.B. 1-6 | | | | | | | | | | 12030-F6510 |
| | | P.B. 1-6 | | | | | | | | | | 12030-30P00 |

SUBARU

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|-------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| EA65 4 cyl 83 x 60 1298cc | MS-1184GP (78-ON) | Main 1.3 Δ2 | 49.970 | 54.004 | 2.010 | 21.00 | 0.02-0.07 | 6: 4.5-5.5 8: 2.3-2.7 | 88265-8840 |
| | | | 49.982 | 54.004 | 2.010 | 25.96 | 0.02-0.07 | | |
| EA71 4 cyl 92 x 60 1595cc | CB-1124GP (78-ON) PB-2300J (78-ON) | C.R. 1-4 | 45.000 | 48.019 | 1.485 | 13.50 | 0.03-0.06 | 4.0-4.3 | 38291-4300 |
| | | P.B. 1-4 | 21.000 | 23.000 | 1.040 | 19.40 | | | |
| EA81 4 cyl | MS-2300GP (79-ON) | Main 1.3 Δ2 | 54.970 | 59.018 | 2.020 | 21.00 | 0.02-0.07 | 6: 4.5-5.5 8: 2.3-2.7 | 48543-7000 |
| | | | 54.970 | 59.018 | 2.020 | 25.96 | 0.02-0.07 | | |
| EA82 4 cyl 92 x 67 1781cc | CB-1124GP (79-85) CB-2300GP (85-ON) PB-2300J (79-ON) | C.R. 1-4 | 45.000 | 48.019 | 1.485 | 13.50 | 0.03-0.06 | 10: 4.0-4.8 4.0-4.3 | 38291-4300 |
| | | C.R. 1-4 | 45.010 | 48.019 | 1.490 | 14.50 | 0.01-0.07 | 4.0-4.3 | 12108-AA090 |
| | | P.B. 1-4 | 21.000 | 23.000 | 1.040 | 19.40 | | | 47336-7001 |
| EF10 3 cyl 78 x 69.6 997cc | MS-2301GP (83-ON) | Main 1.3 Δ2 | 41.980 | 45.024 | 1.510 | 20.00 | 0.02-0.06 | 4.2-4.8 | 48265-5400 |
| | | | 41.980 | 45.024 | 1.510 | 24.92 | 0.02-0.06 | | |
| EF12 3 cyl 78 x 83 1169cc | CB-2301GP (EF10 83-ON) CB-2302GP (EF12 84 ON) | C.R. 1-3 | 42.000 | 45.016 | 1.490 | 15.00 | 0.02-0.07 | 4.0-4.5 | 48291-5600 |
| | | C.R. 1-3 | 42.000 | 45.016 | 1.495 | 15.00 | 0.01-0.08 | 4.0-4.5 | 12111-KA00 |
| EK21 2 cyl 66 x 52.4 358cc | MS-1126GP (73-ON) | Main 1.2 Δ3 | 41.960 | 45.012 | 1.510 | 20.00 | 0.02-0.06 | 4.2-4.8 | 38265-2100 48265-1000 |
| | | | 41.960 | 45.012 | 1.510 | 24.96 | 0.02-0.06 | | |
| EK22 2 cyl 74 x 57 490cc | CB-2303GP (73-ON) | C.R. 1-2 | 38.000 | 41.016 | 1.490 | 14.00 | 0.02-0.06 | 3.5-4.1 | 38291-2100 48291-5400 |
| EK23 2 cyl 76 x 60 544cc | | | | | | | | | |

SUZUKI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| F5A 3 cyl 62 x 60 543cc F5AT 3 cyl 62 x 60 543cc | MS-2402A (81-ON) | Main 1-4 | 40.000 | 44.018 | 1.991 | 17.00 | 0.018-0.064 | 5.5-6.0 | 12300-78811 |
| | TW-2402A (81-ON) | T.W. No.3 | (I.D.)47.0 | (O.D.)63.0 | 2.520 | | | | 12300-78830 |
| | CB-2404A (F5A 81-ON) | C.R. 1-3 | 32.000 | 35.018 | 1.490 | 16.00 | 0.018-0.064 | 2.8-3.2 | 12181-78130 |
| | CB-2401A (F5AT 84-ON) | C.R. 1-3 | 38.000 | 41.018 | 1.493 | 18.00 | 0.018-0.064 | 2.8-3.2 | 12181-78400 |
| | PB-2401J (81-ON) | P.B. 1-3 | 16.000 | 18.020 | 1.150 | 22.00 | | | 12165-73000 |
| F5B 3 cyl 62 x 60 543cc | MS-2402A (88-ON) | Main 1-4 | 40.000 | 44.018 | 1.991 | 17.00 | 0.018-0.064 | 5.5-6.0 | 12300-78811 |
| | TW-2402A (88-ON) | T.W. No.3 | (I.D.) 47.0 | (O.D.) 63.0 | 2.520 | | | | 12300-78830 |
| F8A 4 cyl 62 x 66 797cc F10A 4 cyl 65.5 x 72 970cc | MS-1179A (F8A 77-82) (F10A 82-ON) | Main 1-5 | 50.000 | 54.018 | 1.990 | 20.00 | 0.018-0.064 | 5.5-6.0 | 12300-73811 |
| | TW-1179A (F8A 77-82) (F10A 82-ON) | T.W. No.3 | (I.D.) 57.0 | (O.D.) 73.0 | 2.520 | | | | 12300-73830 |
| | CB-1179A (F8A 77-82) (F10A 82-ON) | C.R. 1-4 | 38.000 | 41.018 | 1.493 | 18.00 | 0.018-0.064 | 2.8-3.2 | 12181-73001 |
| | PB-1179J (F8A 77-82) (F10A 82-ON) | P.B. 1-4 | 16.000 | 18.020 | 1.150 | 22.00 | | | 12165-73000 |
| G10 3 cyl 74 x 77 993cc | MS-2403A (84-ON) | Main 1-4 | 45.000 | 49.018 | 2.006 | 18.00 | 0.020-0.068 | 5.0-5.7 | 12340-82000 |
| | TW-2403A (84-ON) | No.3 | (I.D.) 52.0 | (O.D.) 68.0 | 2.520 | | | | 12340-82820 |
| | CB-2403A (84-ON) | C.R. 1-3 | 42.000 | 45.018 | 1.496 | 18.00 | 0.020-0.068 | 3.3-3.7 | 12100-82810 |

SUZUKI

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|-------------------------------|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| G13 4 cyl 74 x 77 1324cc | MS-2404A (85-ON) | Main 1-5 | 45.000 | 49.018 | 2.006 | 18.00 | 0.020-0.068 | 5.0-5.7 | 12300-82000 |
| | TW-2403A (85-ON) | T.W. No.4 | (I.D.) 52.0 | (O.D.) 68.0 | 2.520 | | | | 12300-82820 |
| | CB-2404A (85-ON) | C.R. 1-4 | 42.000 | 45.018 | 1.496 | 18.00 | 0.020-0.068 | 3.3-3.7 | 12100-82810 |
| G15 4 cyl 75 x 90 1590cc | MS-2405GP | Main 1-5 | 52.000 | 56.018 | 2.012 | 18.00 | 0.024-0.038 | | 12340-60A10 |
| | TW-2405GP | T.W. 4 | (I.D.) 59.25 | (O.D.) 75.0 | 2.520 | | | | 12300-60820 |
| | CB-2405A | C.R. 1-4 | 44.000 | 47.018 | 1.502 | 18.00 | 0.004-0.064 | | 12100-60820 |
| Y64 3 cyl 68.5 x 72 796cc F8B 3 cyl 68.5 x 72 796cc | MS-2401A (81-ON) | Main 1-4 | 50.000 | 54.018 | 1.990 | 17.00 | 0.018-0.064 | 5.0-6.0 | 12300-78860 |
| | TW-1179A (81-ON) | T.W. No.3 | (I.D.) 57.0 | (O.D.) 73.0 | 2.520 | | | | 12300-73830 |
| | CB-2401A (81-ON) | C.R. 1-3 | 38.000 | 41.018 | 1.493 | 18.00 | 0.018-0.064 | 2.8-3.2 | 12181-78400 |
| | PB-2401J (81-ON) | P.B. 1-3 | 16.000 | 18.020 | 1.150 | 22.00 | | | 12165-73000 |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|------------------------------------|--------------|----------------------------|-----------------|-------------------|------------------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 1A 4 cyl 77.5 x 77 1452cc 2A 4 cyl 76 x 71.4 1295cc 3A 4 cyl 77.5 x 77 1452cc 4A 4 cyl 81 x 77 1587cc 5A 4 cyl 78.7 x 77 1498cc 4 A-GZE 4 cyl 81 x 77 1587cc | MS-1400A (78-83) | Main 1-5 | 48.000 | 52.040 | 2.004 | 20.00 | 0.012-0.065 | 5.4-6.6 | 11701-15030 |
| | MS-1410GP (83-ON) | Main 1-5 | 48.000 | 52.040 | 2.004 | 20.00 | 0.012-0.085 | 5.4-6.6 | 11701-16010 |
| | TW-1400A (78-ON) | T.W. NO.3 | (I.D.)53.5 | (O.D.)66.0 | 2.490 | | | | 11011-15010 |
| | CB-1400GP (78-83) | C.R. 1-4 | 40.000 | 43.020 | 1.490 | 17.00 | 0.020-0.067 | 3.5-4.5 | 13041-15010 |
| | CB-1410GP (83-ON) | C.R. 1-4 | 40.000 | 43.020 | 1.490 | 17.10 | 0.020-0.067 | 3.5-4.5 | 13041-15030 |
| | CB-1425GP (4A-GZE 87-ON) | C.R. 1-4 | 42.000 | 45.024 | 1.490 | 17.00 | 0.020-0.085 | 4.2 | 13041-16070 |
| | PB-1425J (4A-GZE 87-ON) | P.B. 1-4 | | | | | | | 90999-73111 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 1C 4 cyl 83 x 85 1839cc 2C 4 cyl 86 x 85 1974cc | MS-1408A (82-85) | Main 1-5 | 57.000 | 61.024 | 1.983 | 22.00 | 0.034-0.070 | 9.8-11.2 | 11701-64010 |
| | MS-1421A (85-ON) | Main 1-5 | 57.000 | 61.024 | 1.990 | 20.00 | 0.034-0.070 | 9.8-11.2 | 11701-64050 |
| | TW-1408A (82-ON) | T.W. No.3 | (I.D.)63.0 | (O.D.)76.8 | 2.730 | | | | 11011-64010 |
| | CB-1408A (82-85) | C.R. 1-4 | 50.500 | 53.524 | 1.482 | 23.70 | 0.036-0.070 | 6.0-7.0 | 13041-64010 |
| | CB-1421A (85-ON) | C.R. 1-4 | 50.500 | 53.524 | 1.482 | 18.90 | 0.036-0.070 | 6.0-7.0 | 13041-64050 |
| | PB-1408J (82-85) | P.B. 1-4 | 27.000 | 30.025 | 1.530 | 27.50 | 0.007-0.015 | | 90999-73091 |
| | PB-1421J (85-ON) | P.B. 1-4 | 27.000 | 30.021 | 1.530 | (U) 20.00 (U) 28.00 | 0.004-0.014 | | 90999-73102 |
| | | | | | | | | | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|---|--------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 1E 4 cyl 70.5 x 64 999cc 2E 4 cyl 73 x 77.4 1295cc 3E 4 cyl 73 x 87 1456cc | MS-1415A (84-86) MS-1424A (86-ON) | Main 1-5 | 47.000 | 51.036 | 2.000 | 16.00 | 0.018-0.06 | 4.6-7.0 | 11702-10010 |
| | | Main 1-5 | 50.000 | 54.040 | 2.000 | 16.00 | 0.022-0.08 | | 11701-11010 |
| | TW-1415A (84-86) TW-1424A (86-ON) | T.W. No.3 | (I.D.)52.65 | (O.D.)64.5 | 2.475 | | | | 11011-11020 |
| | | T.W. No.3 | | | | | | | 11011-11010 |
| | CB-1415A (84-86) CB-1424A (86-ON) | C.B. 1-4 | 40.000 | 43.021 | 1.499 | 15.00 | 0.016-0.072 | 3.7-4.3 | 13041-10021 |
| | | C.R. 1-4 | 43.000 | 46.024 | 1.492 | 15.00 | 0.016-0.081 | 4.0 | 13041-11020 |
| 1FZ 6 cyl 100 x 95 4476cc | MS-1438A (90-ON) TW-1438A (90-ON) | Main 1-7 | 68.980 | 74.040 | 2.492 | 23.40 | | | 11701-66020 |
| | | T.W. | | | 2.490 | | | | 11011-66020 |
| | CB-1438A (90-ON) PB-1438J (90-ON) | C.R. 1-6 | 56.980 | 60.540 | 1.745 | 21.40 | | | 13041-66020 |
| | | P.B. 1-6 | 26.000 | 28.030 | 1.025 | 28.00 | | | 90999-73135 |
| 1G 6 cyl 75 x 75 1988cc | MS-1402A (80-85) TW-1402A (80-ON) CB-1402GP (80-85) | Main 1-7 | 55.000 | 59.050 | 2.000 | 19.20 | 0.020-0.085 | 5.4-6.6 | 11701-70012 |
| | | T.W. No.4 | (I.D.)61.0 | (O.D.)73.0 | 1.990 | | | | 11011-70010 |
| | C.R. 1-6 | 42.000 | 45.024 | 1.498 | 18.90 | 0.016-0.063 | 4.0-5.0 | 13041-70010 | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|--|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 1HZ 6 cyl 94 x 100 4163cc 1HD-T 6 cyl 94 x 100 4163cc | MS-1436A (88-ON) TW-1436A (88-ON) | Main 1-7 | 67.000 | 71.020 | 1.985 | 22.00 | | | 11701-17010 |
| | | T.W. | | | | | | | 11011-17010 |
| | C.R. 1-6 | CB-1436A (88-ON) SH-1436B (88-ON) | 59.000 | 62.020 | 1.505 | 23.60 | | | 13041-17010 |
| | | | Cam 1-2 | 35.000 | 38.020 | 1.505 | 29.00 | | |
| P.B. 1-6 | PB-1436J (1HZ 88-ON) | 29.000 | 32.000 | 1.530 | 27.00 | | | 90999-73126 | |
| 1PZ 5 cyl 94 x 100 3470cc | MS-1439A* (88-ON) TW-1436A* (88-ON) | Main 1-6 | 67.000 | 71.020 | 1.985 | 22.00 | | | 11701-17010 |
| | | T.W. | | | | | | | 11011-17010 |
| | C.R. 1-5 | CB-1439A* (88-ON) SH-1436A* (88-ON) | 59.000 | 62.020 | 1.505 | 23.60 | | | 13041-17010 |
| | | | Cam | 35.000 | 38.020 | 1.530 | 29.00 | | |
| | P.B. 1-5 | PB-1439J* (88-ON) | 29.000 | 32.000 | 1.530 | 27.00 | | | 90999-73126 |
| 1RZ 4 cyl 1988cc 2RZ 4 cyl 2438cc | MS-1435A TW-1435A | Main 1-2 | 59.980 | 64.020 | 1.996 | 25.00 | | | 11701-75010 |
| | | 3-5 | 59.980 | 64.020 | 1.996 | 23.00 | | | |
| | T.W. | | | | | | | | 11011-75010 |
| | C.R. 1-4 | CB-1435A PB-1435J | 52.990 | 56.020 | 1.499 | 19.80 | | | 13041-75010 |
| P.B. | | | | | | | | | 90999-73129 |

*Available until inventory is depleted

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 1S 4 cyl 80.5 x 90 1832cc 2S 4 cyl 84 x 90 1995cc 3S 4 cyl 86 x 86 1998cc 4S 4 cyl 86 x 86 1998cc 5S 4 cyl 2164cc | MS-1404A (81-ON) TW-1117K (81-84) TW-1441A (84-ON) CB-1404A (81-84) CB-1419GP (84-85) CB-1441GP (85-ON) PB-1441J (85-ON) | Main | | | | | | | |
| | | 1.2.4.5. | 55.000 | 59.038 | 2.000 | 19.00 | 0.020-0.088 | 5.4-6.6 | 11701-63020 |
| | | No.3 | 55.000 | 59.038 | 1.995 | 23.00 | 0.020-0.088 | | 11011-25010 |
| | | T.W. | | | | | | | |
| | | No.3 | (I.D.)64.0 | (O.D.)76.0 | 2.490 | | | | 11011-74020 |
| | | T.W. | | | | | | | |
| | | C.R. | | | | | | | 13041-63020 |
| | | 1-4 | 47.985 | 51.024 | 1.488 | 20.50 | 0.024-0.088 | 4.5-5.5 | |
| | | C.R. | | | | | | | 13041-88360 |
| | | 1-4 | 47.985 | 51.024 | 1.492 | 21.30 | 0.016-0.081 | 4.5-5.5 | 13041-74030 |
| C.R. | | | | | | | | | |
| 1-4 | 52.000 | 55.000 | 1.497 | 20.30 | | | 90999-73112 | | |
| P.B. | | | | | | | | | |
| 1VZ-FE V6 78 X 69.5 1992CC 3VZ-E-FE V6 2959cc 4VZ-FE V6 2496cc | MS-1423GP (87-ON) MS-1437GP (3VZ-E 87-ON) TW-1423K (87-ON) CB-1423GP (1VZ-FE 87-ON) CB-1437GP (3VZ-E 87-ON) | Main | | | | | | | |
| | | 1 | 64.000 | 68.028 | 1.992 | 22.00 | 0.026-0.085 | 6.25 + 90° | 11701-62010 |
| | | 2.3.4. | 64.000 | 68.028 | 1.992 | 20.00 | 0.026-0.085 | | |
| | | Main | | | | | | | 11701-62021 |
| | | 1 | 64.000 | 68.028 | 1.992 | 22.00 | | | |
| | | 2-4 | 64.000 | 68.028 | 1.992 | 20.00 | | | |
| | | T.W. | | | | | | | 11011-62010 |
| | | No. | (I.D.)71.25 | (O.D.)86.5 | 2.480 | | | | |
| | | C.R. | | | | | | | 13041-62010 |
| | | 1-6 | 48.000 | 51.024 | 1.488 | 17.00 | 0.024-0.087 | 2.5 + 90° | |
| C.R. | | | | | | | 13041-65020 | | |
| 1-6 | 55.000 | 58.000 | 1.490 | 16.80 | | | | | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|--|--|--|--|--|---|---|---|---|--------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| 1W 4 CYL 104 X 118 4009CC | MS-2109GP (83-ON) | Main 1-5 | 72.960 | 78.000 | 2.490 | 25.00 | 0.039-0.090 | 14-16 | 11701-78010 | |
| | TW-2109GP (83-ON) | T.W. No.4 | (I.D.)82.25 | (O.D.)98.7 | 2.500 | | | | 11011-78010 | |
| | CB-2109GP (83-ON) | C.R. 1-4 | 61.960 | 66.000 | 1.995 | 28.00 | 0.031-0.082 | 11.0-13.5 | 13041-78010 | |
| | SH-2109B (83-ON) | Cam No.1 No.2 No.3 | 56.970 56.770 56.570 | 60.030 59.830 59.630 | 1.500 1.500 1.500 | 27.00 27.00 27.00 | 0.030-0.120 0.030-0.120 0.030-0.120 | | 11801-78010 | |
| | PB-2109J (83-ON) | P.B. 1-4 | 35.000 | 39.025 | 2.040 | 38.00 | 0.015-0.036 | | 90999-73095 | |
| 1Y 4 cyl 86 x 70 1626cc 2Y 86 x 78 1812cc 3Y 4 cyl 86 x 86 1998cc | MS-1407A (83-ON) | Main 1-5 | 58.000 | 62.020 | 1.990 | 20.70 | 0.020-0.067 | 8.0-8.5 | 11701-71020 | |
| | TW-1117K (83-ON) | T.W. No.3 | (I.D.)64.0 | (O.D.)76.0 | 2.490 | | | | 11011-25010 | |
| | CB-1407A (83-ON) | C.R. 1-4 | 48.000 | 51.020 | 1.490 | 19.90 | 0.020-0.067 | 5.0-5.5 | 13041-71020 | |
| | SH-1407B (83-ON) | Cam No.1 No.2 No.3 No.4 No.5 | 46.475 46.225 45.975 45.725 45.475 | 50.030 49.780 49.030 49.280 49.530 | 1.750 1.750 1.500 1.750 2.000 | 18.00 16.00 18.00 16.00 18.00 | 0.025-0.081 0.025-0.081 0.025-0.081 0.025-0.081 0.025-0.081 | | 11802-71010 | |
| | 2T 4 cyl 85 x 70 1588cc | MS-1104GP* (T,2T 70-71) | Main 1,2,4,5. | 57.990 | 62.024 | 1.997 | 20.80 | 0.020-0.084 | 7.2-8.8 | 11702-25011 |
| | | MS-1117GP (71-ON) | ΔNo.3 | 57.990 | 62.024 | 1.997 | 30.90 | 0.020-0.084 | | 11702-25013 |
| | | | Main 1-5 | 57.990 | 62.024 | 1.997 | 20.80 | 0.020-0.084 | 7.2-8.8 | |
| | 3T 4 cyl 85 x 78 1770cc | TW-1117K (70-85) | T.W. No.3 | (I.D.)64.0 | (O.D.)76.0 | 2.490 | | | | 11011-25010 |
| | | CB-1117GP (70-ON) | C.R. 1-4 | 47.990 | 51.024 | 1.494 | 19.80 | 0.016-0.086 | | 13202-25010 |
| | 12T 4 cyl 85 x 70 1588cc 13T 4 cyl 85 x 78 1770cc U 4 cyl 85 x 78 1770cc | SH-1104B (ALL EXCEPT 3T-GE,U 71-ON) | Cam No.1 No.2 No.3 | 46.475 46.225 45.975 | 50.030 49.780 49.030 | 1.745 1.745 1.495 | 18.00 16.00 18.00 | 0.015-0.096 0.015-0.096 0.015-0.096 | 4.0-5.0 | 11802-25010 |
| No.4 | | | 45.725 | 49.280 | 1.745 | 16.00 | 0.015-0.096 | | | |
| No.5 | | | 45.475 | 49.530 | 1.995 | 18.00 | 0.015-0.096 | | | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|-------------------------------|----------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|----------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 2R 4 cyl 78 x 78 1490cc 4R 4 cyl 80.5 x 78 1587cc 12R 4 cyl 80.5 x 78 1587cc | MS-1060A (64-ON) | Main | | | | | | | 11702-31020 |
| | | No.1 | 58.000 | 61.624 | 1.790 | 30.00 | 0.020-0.088 | 10.0-11.0 | |
| | | No.2 | 58.000 | 61.624 | 1.790 | 34.00 | 0.020-0.088 | | |
| | No.3 | 58.000 | 61.624 | 1.790 | 40.00 | 0.020-0.088 | | | |
| | TW-1007A (64-ON) | T.W. | | | | | | | 11011-31020 |
| | | No.2 | (I.D.)64.0 | (O.D.)76.0 | 3.000 | | | | |
| | CB-1035A (64-ON) | C.R. | | | | | | | 13202-31020 |
| | | 1-4 | 50.000 | 53.03 | 1.498 | 27.00 | 0.020-0.065 | 5.0-6.0 | |
| | SH-1060B (64-ON) | Cam | | | | | | | 11802-31010 |
| | | No.1 | 46.475 | 50.025 | 1.760 | 28.00 | 0.005-0.086 | | |
| | | No.2 | 46.225 | 50.025 | 1.885 | 42.00 | 0.005-0.086 | | |
| | | No.3 | 45.975 | 50.025 | 2.010 | 25.00 | 0.005-0.086 | | |
| P.B. | | | | | | | | | |
| PB-1035J (64-ON) | 1-4 | 20.016 | 22.025 | 1.045 | 27.00 | 0.006-0.010 | | 90999-73027 | |
| 3P 4 cyl 76.6 x 73 1345cc 4P 4 cyl 76.6 x 81 1493cc | MS-1062GP (67-ON) | Main | | | | | | | 11702-23011 |
| | | 1-3 | 52.000 | 56.047 | 2.004 | 29.00 | 0.015-0.071 | 9.8-11.2 | |
| | TW-1005B (67-ON) | T.W. | | | | | | | 11011-23010 |
| | | No.2 | (I.D.)57.0 | (O.D.)69.0 | 2.470 | | | | |
| | CB-1062GP (67-ON) | C.R. | | | | | | | 13202-23012 |
| | | 1-4 | 47.000 | 50.043 | 1.504 | 23.00 | 0.013-0.067 | 4.2-4.8 | |
| | SH-1062B (67-ON) | Cam | | | | | | | 11802-23010 |
| | | No.1 | 46.975 | 51.025 | 2.000 | 24.00 | 0.025-0.090 | | |
| | | No.2 | 46.775 | 51.025 | 2.100 | 20.00 | 0.025-0.090 | | |
| | | No.3 | 46.575 | 51.025 | 2.200 | 24.00 | 0.025-0.090 | | |
| | PB-1062J (67-ON) | P.B. | | | | | | | 90999-73059 |
| | | 1-4 | 20.012 | 22.021 | 1.030 | 24.00 | 0.006-0.010 | | |
| 5R 4 cyl 88 x 82 1994cc | MS-1107GP (68-78) | Main | | | | | | | 11702-44020 |
| | | No.1 | 60.000 | 64.030 | 1.990 | 28.00 | 0.020-0.090 | 10.5-11.5 | |
| | | ΔNo.2 | 60.000 | 64.030 | 1.990 | 41.90 | 0.020-0.090 | | |
| | No.3 | 60.000 | 64.030 | 1.990 | 36.00 | 0.020-0.090 | | | |
| | MS-1159A (78-ON) | Main | | | | | | | 11702-44040 |
| | | No.1 | 60.000 | 64.030 | 1.990 | 28.00 | 0.016-0.096 | 10.3-11.7 | |
| | TW-1133GP (78-ON) | No.2.3 | 60.000 | 64.030 | 1.990 | 36.00 | 0.016-0.096 | | 11011-38010 |
| | | T.W. | | | | | | | |
| | CB-1046A (67-ON) | No.2 | (I.D.)66.0 | (O.D.)80.0 | 1.990 | | | | 13202-44012 |
| | | C.R. | | | | | | | |
| | SH-1107B (67-ON) | 1-4 | 55.000 | 58.040 | 1.505 | 26.00 | 0.017-0.072 | 6.0-7.0 | 11802-40010 11802-40011 |
| | | Cam | | | | | | | |
| | | No.1 | 46.475 | 50.025 | 1.750 | 29.00 | 0.025-0.090 | | |
| | | No.2 | 46.225 | 50.025 | 1.875 | 20.00 | 0.025-0.090 | | |
| | | No.3 | 45.975 | 50.025 | 2.000 | 46.00 | 0.025-0.090 | | |
| | | No.4 | 45.725 | 50.025 | 2.125 | 19.00 | 0.025-0.090 | | |
| | | No.5 | 45.475 | 50.025 | 2.250 | 28.00 | 0.025-0.090 | | |
| P.B. | | | | | | | | | |
| PB-1046J (67-ON) | 1-4 | 22.009 | 24.021 | 1.045 | 30.80 | 0.005-0.011 | | 90999-73064 | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|---|-------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| 6R 4 cyl 86 x 73.5 1707cc | MS-1094GP (68-77) MS-1152GP | Main | | | | | | | |
| | | 1.2.4.5. ΔNo.3 | 60.000 | 64.024 | 1.997 | 22.00 | 0.016-0.080 | 10.0-11.0 | 11702-33011 |
| 7R 4 cyl 86 x 68.5 1591cc | (77-82) TW-1133K (77-82) | Main | | | | | | | |
| | | 1.2.4.5. No.3 | 60.000 | 64.024 | 1.997 | 22.00 | 0.016-0.080 | 10.0-11.0 | 11702-31012 |
| 8R 4 cyl 86 x 80 1858cc | CB-1133GP (68-82) SH-1068A (77-82) | T.W. | | | | | | | |
| | | No.3 | (I.D.)66.0 | (O.D.)80.0 | 1.990 | | | | 11011-38011 |
| 10R 4 cyl 86 x 80 1858cc | PB-1068J (68-82) DB-1152B | C.R. | | | | | | | |
| | | 1-4 | 53.000 | 56.024 | 1.497 | 22.00 | 0.024-0.080 | 5.8-6.6 | 13202-38011 |
| 16R 4 cyl 88.5 x 80 1968cc | (74-82) | Cam | | | | | | | |
| | | No.1234 | 34.996 | 38.038 | 1.504 | 20.10 | 0.012-0.064 | 1.2-2.3 | 11802-33010 |
| 18R 4 cyl 88.5 x 80 1968cc | | No.1/L | 34.996 | 38.038 | 1.504 | 28.00 | 0.012-0.064 | | |
| | | P.B. 1-4 | 22.019 | 24.021 | 1.045 | 28.80 | 0.005-0.011 | | 90999-73072 |
| 20R 4 cyl 88.5 x 89 2189cc | MS-1133GP (74-82) MS-1405GP (82-ON) | D.B. | | | | | | | |
| | | No.2 | 41.000 | 45.025 | 2.000 | 20.00 | 0.030-0.070 | | 11022-33010 |
| 21R 4 cyl 84 x 89 1978cc | TW-1133K (74-84) TW-1405A (84-ON) CB-1133GP (74-ON) | No.1 | 46.000 | 50.025 | 2.000 | 25.00 | 0.030-0.070 | | |
| | | No.2 | 41.000 | 45.025 | 2.000 | 20.00 | 0.030-0.070 | | |
| 22R 4 cyl 92 x 89 2366cc | PB-1068J (74-ON) | Main | | | | | | | |
| | | 1.2.4.5. No.3 | 60.000 | 64.024 | 1.997 | 22.00 | 0.016-0.080 | 10.0-11.0 | 11702-38010 |
| | | Main | | | | | | | |
| | | 1-5 | 60.000 | 64.024 | 1.997 | 22.00 | 0.025-0.080 | 10.0-11.0 | 11702-38011 |
| | | T.W. | | | | | | | |
| | | No.3 | (I.D.)66.0 | (O.D.)80.0 | 1.990 | | | | 11011-38010 |
| | | T.W. | | | | | | | |
| | | No.4 | (I.D.)66.0 | (O.D.)80.0 | 2.750 | | | | 11011-35020 |
| | | C.R. | | | | | | | |
| | | 1-4 | 53.000 | 56.024 | 1.497 | 22.00 | 0.025-0.080 | 5.8-6.6 | 13202-38011 |
| | | P.B. | | | | | | | |
| | | 1-4 | 22.019 | 24.021 | 1.045 | 28.80 | 0.005-0.011 | | 90999-73072 |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|--|----------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| B 4 cyl 95 x 105 2977cc | MS-1121A (B,2B,3B 72-84) | Main 1.2.4.5. | 70.000 | 75.024 | 2.490 | 27.60 | 0.020-0.084 | 9.8-11.2 | 11702-56010 |
| | MS-1417A (B,3B,11B,13B) (84-88) | ΔNo.3 Main 1-5 | 70.000 | 75.024 | 2.490 | 23.90 | 0.020-0.084 | | 11702-56020 |
| 2B 4 cyl 98 x 105 3168cc | MS-1428A (B 88-ON) | Main 1-5 | 70.000 | 75.024 | 2.485 | 26.90 | 0.020-0.084 | 19-21 | 11701-56030 |
| | TW-1417A (84-ON) | T.W. NO.3 | (I.D.)76.25 | (O.D.)90.5 | 2.475 | | | | 11011-56010 |
| 3B 4 cyl 102 x 105 3431cc | CB-1121A (B,2B 72-84) | C.R. 1-4 | 59.000 | 62.020 | 1.490 | 30.00 | 0.020-0.080 | 6.5-7.5 | 13202-56010 |
| | CB-1401A (3B,11B,13B/T) (80-88) | C.R. 1-4 | 61.000 | 64.020 | 1.485 | 30.00 | 0.020-0.080 | 8.5-9.5 | 13202-58010 |
| | CB-1428A (B 88-ON) | C.R. 1-4 | 59.000 | 62.025 | 1.485 | 30.00 | 0.020-0.080 | 8.5-9.5 | 13041-56030 |
| 11B 4 cyl 95 x 105 2977cc | CB-1429A (3B,11,13B 88-ON) | C.R. 1-4 | 61.000 | 64.000 | 1.485 | 30.00 | 0.020-0.084 | 8.5-9.5 | 13041-56040 |
| | SH-1121B (B,2B 74-80) | Cam No.1 | 47.175 | 51.060 | 1.915 | 23.70 | 0.025-0.111 | | 11802-56011 |
| | | No.2 | 46.975 | 51.060 | 2.015 | 19.80 | 0.025-0.111 | | |
| 13B 4 cyl 102 x 105 3431cc | SH-1401B (B 80-84) | Cam No.1 | 47.175 | 51.060 | 1.915 | 23.70 | 0.025-0.111 | | 11802-56011 |
| | | No.2 | 46.975 | 51.060 | 2.015 | 19.80 | 0.025-0.111 | | |
| | | No.3 | 46.775 | 51.060 | 2.115 | 23.70 | 0.025-0.111 | | |
| 13B-T 4 cyl 102 x 105 3431cc | SH-1417B (B,3B,11B,13B/T) (84-ON) | Cam No.1 | 53.475 | 56.530 | 1.510 | 20.00 | 0.025-0.066 | | 11802-56020 |
| | | No.2 | 53.225 | 56.280 | 1.510 | 20.00 | 0.025-0.066 | | |
| | | No.3 | 52.975 | 56.030 | 1.510 | 20.00 | 0.025-0.066 | | |
| | | No.4 | 52.725 | 56.030 | 1.635 | 20.00 | 0.025-0.066 | | |
| | | No.5 | 52.475 | 56.280 | 1.885 | 20.00 | 0.025-0.066 | | |
| 14B | PB-1428J (B 72-ON) | P.B. 1-4 | 29.012 | 33.025 | 2.030 | 32.00 | 0.004-0.012 | | 90999-73065 |
| | PB-1401J (3B 80-84) | P.B. 1-4 | 32.010 | 36.030 | 2.030 | 32.00 | 0.004-0.012 | | 90999-73088 |
| | PB-1417J (3B,11B,13B 84-88) | P.B. 1-4 | 34.010 | 38.025 | 2.040 | 36.00 | 0.004-0.014 | | 90999-73122 |

TOYOTA

| Engine, Cyl Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|--|--|---------------------------|----------------------------|------------------|-------------------|----------------|----------------------------|---------------------------|--------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| D 6 cyl 100 x 125 5890cc 2D 6 cyl 105 x 125 6494cc | MS-1040GP* (64-ON) | Main | | | | | | | 11702-77010 | |
| | | 1-3/5-7 No.4 | 74.990 74.990 | 81.040 81.040 | 3.001 3.001 | 34.00 49.00 | 0.028-0.087 0.028-0.087 | 13.0-15.0 | | |
| | TW-1040B* (64-ON) | T.W. No.4 | (I.D.)83.40 | (O.D.)99.8 | 2.990 | | | | 11011-76010 | |
| | | C.R. | | | | | | | 13202-77020 | |
| | CB-1041GP* (64-ON) PB-1040J* (64-76) PB-1041J* (76-ON) | 1-6 | 61.990 | 66.055 | 1.993 | 31.00 | 0.030-0.095 | 7.0-8.0 | 90999-70005 | |
| | | P.B. | | | | | | | 90999-73080 | |
| | | 1-6 | 34.030 | 40.030 | 3.045 | 37.00 | 0.015-0.025 | | | |
| | | P.B. | | | | | | | 90999-73080 | |
| | F 6 cyl 90 x 101.6 3878cc 2F 6 cyl 94 x 101.6 4230cc 3F 6 cyl 94 x 95 3995cc | (MS-1007GP*) (F 54-73) | Main | | | | | | | 11702-60012 |
| | | | No.1 | 67.000 | 72.035 | 2.485 | 32.00 | 0.020-0.084 | 13.0-15.0 | |
| No.2 | | | 68.500 | 73.535 | 2.485 | 30.00 | 0.020-0.084 | | | |
| ΔNo.3 | | | 70.000 | 75.035 | 2.485 | 36.00 | 0.020-0.084 | | | |
| MS-1123A (F 73-75) (2F 75-ON) | | Main | | | | | | | 11702-60013 | |
| | | No.1 | 67.000 | 72.035 | 2.497 | 32.00 | 0.020-0.084 | 13.0-15.0 | | |
| | | No.2 | 68.500 | 73.535 | 2.497 | 30.00 | 0.020-0.084 | | | |
| | | ΔNo.3 | 70.000 | 75.035 | 2.497 | 35.90 | 0.020-0.084 | | | |
| MS-1413A (3F 84-ON) | | Main | | | | | | | 11702-61010 | |
| | | No.1 | 66.996 | 72.034 | 2.497 | 32.00 | 0.020-0.090 | M12-bolt | | |
| | | No.2 | 68.496 | 73.534 | 2.497 | 30.00 | 0.020-0.090 | 11.75 | | |
| | | No.3 | 69.996 | 75.034 | 2.497 | 28.00 | 0.020-0.090 | | | |
| TW-1413A (3F 84-ON) CB-1123A (F 54-75) (2F 75-ON) CB-1413GP (3F 84-ON) SH-1123B (54-ON) PB-1413J (3F 84-ON) | | No.4 | 71.496 | 76.534 | 2.497 | 40.00 | 0.020-0.090 | M14-bolt | | |
| | | T.W. | | | | | | 13.75 | 11011-61010 | |
| | | No.3 | (I.D.)78.25 | (O.D.)91.0 | 2.480 | | | | 13202-60011 | |
| | | C.R. | | | | | | | 13202-61010 | |
| | | 1-6 | 54.000 | 56.820 | 1.392 | 33.00 | 0.020-0.070 | 4.8-7.6 | | |
| | | C.R. | | | | | | | 13202-61010 | |
| | | 1-6 | 53.000 | 56.018 | 1.505 | 22.00 | 0.020-0.070 | 6.0-6.5 | | |
| | | Cam | | | | | | | 11802-60011 | |
| | No.1 | 47.975 | 52.035 | 2.010 | 29.00 | 0.025-0.120 | | | | |
| | No.2 | 46.475 | 50.350 | 2.010 | 24.00 | 0.025-0.120 | | | | |
| | No.3 | 44.975 | 49.030 | 2.010 | 24.00 | 0.025-0.120 | | | | |
| | No.4 | 43.475 | 47.530 | 2.010 | 25.00 | 0.025-0.120 | | | | |
| P.B. | | | | | | | 90999-73072 | | | |
| 1-6 | 22.019 | 24.021 | 1.045 | 28.80 | 0.005-0.011 | | | | | |

*Available until current inventory is depleted

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number | |
|---|--|----------------------------|----------------------------|-----------------|-------------------|--------------|------------------------|---------------------------|--------------------------|-------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | | |
| H 6 cyl 88 x 98 3576cc | MS-1427A (69-ON) | Main 1-3/5-7 No.4 | 70.000 | 74.022 | 1.990 | 24.50 | 0.030-0.068 | 10.0-11.0 | 11702-47012 | |
| | | | 70.000 | 74.022 | 1.990 | 31.50 | 0.030-0.068 | | 11071-68020 | |
| | TW-1063B (69-87) | T.W. No.4 | (I.D.)76.50 | (O.D.)89.8 | 2.980 | | | | 11011-46020 | |
| | | | | | | | | | 11011-68020 | |
| | TW-1427A (87-ON) | T.W. No.4 | (I.D.)76.25 | (O.D.)90.0 | 2.980 | | | | | |
| | | | | | | | | | | |
| | 2H 6 cyl 91 x 102 3980cc | CB-1080A (69-87) | C.R. 1-6 | 55.010 | 58.020 | 1.488 | 27.50 | 0.030-0.070 | 6.5-7.5 | 13202-47011 |
| | | | | | | | | | | |
| | | CB-1427A (87-ON) | C.R. 1-6 | 55.000 | 58.020 | 1.486 | 25.50 | 0.030-0.070 | 9.0 | 11802-46010 |
| | | | | | | | | | | |
| | | SH-1063B (69-75) | Cam No.1 | 47.180 | 51.019 | 1.900 | 24.00 | 0.025-0.106 | | |
| | | | | 46.980 | 51.019 | 2.000 | 20.00 | 0.025-0.106 | | |
| 46.780 | | | | 51.019 | 2.100 | 20.00 | 0.025-0.106 | | | |
| 46.580 | | | | 51.019 | 2.200 | 24.00 | 0.025-0.106 | | | |
| SH-1080B (76-82) | Cam No.1 | 47.175 | 51.025 | 1.900 | 24.00 | 0.025-0.106 | | 11802-48010 | | |
| | | 46.975 | 51.025 | 2.000 | 20.00 | 0.025-0.106 | | | | |
| | | 46.775 | 51.025 | 2.100 | 20.00 | 0.025-0.106 | | | | |
| | | 46.575 | 51.025 | 2.200 | 24.00 | 0.025-0.106 | | | | |
| SH-1403B (82-ON) | Cam No.1 | 51.175 | 55.020 | 1.900 | 24.00 | 0.030-0.115 | | 11802-68010 | | |
| | | 50.975 | 55.020 | 2.000 | 20.00 | 0.030-0.115 | | | | |
| | | 50.775 | 55.020 | 2.100 | 20.00 | 0.030-0.115 | | | | |
| | | 50.575 | 55.020 | 2.200 | 24.00 | 0.030-0.115 | | | | |
| PB-1080J (69-81) | P.B. 1-6 | 27.012 | 30.021 | 1.530 | 31.00 | 0.004-0.012 | | 90999-73083 | | |
| | | | | | | | | 90999-73087 | | |
| PB-1403J (82-87) | P.B. 1-6 | 29.000 | 33.030 | 2.030 | 31.00 | 0.004-0.012 | | 90999-73108 | | |
| | | | | | | | | | | |
| PB-1427J (87-ON) | P.B. 1-6 | 32.000 | 36.000 | 2.040 | 31.00 | 0.004-0.012 | | | | |
| | | | | | | | | | | |
| 12H-T 6 cyl 91 x 102 3980cc | MS-1137GP (65-ON) | Main No.1245 No.3 | 70.000 | 74.022 | 1.990 | 24.50 | 0.022-0.082 | 10.0-11.0 | 11702-48012 | |
| | | | 70.000 | 74.022 | 1.990 | 31.40 | 0.022-0.082 | | 11011-46020 | |
| | TW-1063B (65-ON) | T.W. No.3 | (I.D.)76.5 | (O.D.)89.8 | 29.800 | | | | 13202-48010 | |
| | | | | | | | | | 11802-46010 | |
| | CB-1063A (65-ON) | C.R. 1-4 | 55.010 | 58.020 | 1.488 | 27.50 | 0.030-0.070 | 6.5-7.5 | | |
| | | | | | | | | | | |
| | SH-1063B (65-72) | Cam No.1 | 47.180 | 51.019 | 1.900 | 24.00 | 0.025-0.106 | | 11802-48010 | |
| | | | 46.980 | 51.019 | 2.000 | 20.00 | 0.025-0.106 | | | |
| | | | 46.780 | 51.019 | 2.100 | 20.00 | 0.025-0.106 | | | |
| | | | 46.580 | 51.019 | 2.200 | 24.00 | 0.025-0.106 | | | |
| | SH-1080B (72-ON) | Cam No.1 | 47.175 | 51.025 | 1.900 | 24.00 | 0.025-0.106 | | 11802-48010 | |
| | | | 46.975 | 51.025 | 2.000 | 20.00 | 0.025-0.106 | | | |
| 46.775 | | | 51.025 | 2.100 | 20.00 | 0.025-0.106 | | | | |
| 46.575 | | | 51.025 | 2.200 | 24.00 | 0.025-0.106 | | | | |
| PB-1063J (65-ON) | P.B. 1-4 | 27.012 | 30.021 | 1.530 | 31.00 | 0.004-0.012 | | 90999-73083 | | |
| | | | | | | | | | | |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Position | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|---|--|---------------|----------------------------|-----------------|-------------------|----------------------|------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| K 4 cyl 75 x 61 1077cc 2K 4 cyl 72 x 61 993cc 3K 4 cyl 75 x 66 1166cc 4K 4 cyl 75 x 73 1290cc 5K 4 cyl 80.5 x 73 1486cc | MS-1056GP (66-82) MS-1416A (83-ON) | Main 1-5 | 50.000 | 54.028 | 1.994 | 21.80 | 0.016-0.090 | 5.4-6.6 | 11702-22020 |
| | | Main 1-5 | 50.000 | 54.028 | 2.000 | 21.00 | 0.016-0.090 | 5.4-6.6 | 11701-13011 |
| | TW-1056B (66-ON) CB-1056GP (66-82) | T.W. No.3 | (I.D.)55.30 | (O.D.)67.8 | 2.480 | | | | 11011-22010 |
| | | C.R. 1-4 | 42.000 | 45.024 | 1.496 | 18.80 | 0.023-0.082 | 4.0-5.0 | 13202-22010 |
| | CB-1416A (83-ON) SH-1056B (66-ON) | C.R. 1-4 | 42.000 | 45.024 | 1.500 | 19.00 | 0.023-0.082 | 4.0-5.0 | 13041-13040 |
| | | Cam No.1 | 43.225 | 48.025 | 2.380 | 17.90 | 0.025-0.106 | | 11802-22010 |
| | | No.2 | 42.975 | 47.525 | 2.255 | 17.90 | 0.025-0.106 | | |
| | | No.3 | 42.725 | 47.025 | 2.130 | 17.90 | 0.025-0.106 | | |
| | PB-1056J (66-ON) | Cam No.4 | 42.475 | 46.525 | 2.005 | 17.90 | 0.025-0.106 | | |
| | | P.B. 1-4 | 18.011 | 20.021 | 1.045 | 25.00 | 0.004-0.008 | | 90999-73070 |
| L 4 cyl 90 x 86 2188cc 2L 4 cyl 92 x 92 2446cc 3L 4 cyl 96 x 96 2779cc 2L-T | MS-1161A (78-83) MS-1406A (84-ON) TW-1161A (78-ON) | Main 1-5 | 62.000 | 66.000 | 1.987 | 27.50 | 0.026-0.100 | 11.5-12.5 | 11702-54010 |
| | | Main 1-5 | 62.000 | 66.000 | 1.987 | 27.50 | 0.026-0.100 | 10.5 | 11701-54060 |
| | CB-1161A (78-83) CB-1406A (83-84) | T.W. No.3 | (I.D.)70.00 | (O.D.)82.0 | 2.490 | | | | 11011-54010 |
| | | C.R. 1-4 | 53.000 | 56.000 | 14.90 | 26.00 | 0.028-0.094 | 5.0-6.0 | 13202-54010 |
| | CB-1411A (84-ON) SH-1161A (78-87) | C.R. 1-4 | 53.000 | 56.000 | 1.486 | 26.00 | 0.028-0.094 | 5.0-6.0 | 13041-54013 |
| | | C.R. 1-4 | 55.000 | 58.024 | 1.486 | 26.00 | 0.028-0.094 | 5.0-6.0 | 13041-54040 |
| | SH-1431A (88-ON) PB-1063J (78-83) PB-1411J (84-88) | Cam No.1 | 34.985 | 38.027 | 1.500 | 28.00 | 0.022-0.074 | 1.5-2.2 | 11802-54010 |
| | | Cam No.2,3 | 34.985 | 38.027 | 1.500 | 20.00 | 0.022-0.074 | | 11802-54020 |
| | PB-1063J (78-83) PB-1411J (84-88) | Cam 2-5 | 28.000 | 31.000 | 1.500 | 17.40 | | | |
| | | P.B. 1-4 | 27.012 | 30.021 | 1.530 | 31.00 | 0.004-0.012 | | 90999-73083 |
| | PB-1406J (83-84) PB-1431J (88-ON) | P.B. 1-4 | 29.012 | 32.025 | 1.530 | 31.00 | 0.004-0.012 | | 90999-73094 |
| | | P.B. 1-4 | 27.012 | 30.021 | 1.530 | (U)23.00 (L)31.00 | | | 90999-73114 |
| | | P.B. 1-4 | 29.012 | 32.025 | 1.530 | (U)23.00 (L)31.00 | | | 90999-73115 |

TOYOTA

| Engine, Cyl. Bore-Stroke Cubic Disp. | NDC SET No. (Year Mfr.) | Posi- tion | Dimension STD Size Max. mm | | | Length mm | Oil Clearance mm | Fixed Torque (m.kg) | OEM STD Set Number |
|--|---|----------------------|----------------------------|------------------|-------------------|----------------|----------------------------|---------------------------|--------------------------|
| | | | Shaft Dia | Housing Bore | Wall Thickness | | | | |
| M 6 cyl 75 x 75 1988cc | MS-1051GP (66-83) MS-1414GP (84-ON) | 1-7 | 60.000 | 64.022 | 1.998 | 22.13 | 0.014-0.082 | 9.9-10.9 | 11702-45011 |
| | | Main 1 | 60.000 | 64.022 | 1.998 | 25.13 | 0.014-0.082 | 9.9-10.9 | 11702-43010 |
| | | 2-7 | 60.000 | 64.022 | 1.998 | 22.13 | 0.014-0.082 | | |
| 4M 6 cyl 80 x 85 2563cc | TW-1006B (66-ON) CB-1171GP (M84-ON) | T.W. No.4 | (I.D.)66.0 | (O.D.)80.0 | 2.975 | | | | 11011-45010 |
| | | C.R. 1-6 | 52.000 | 55.015 | 1.500 | 20.00 | 0.017-0.073 | 4.2-4.8 | 13202-45011 |
| 5M 6 cyl 83 x 85 2759cc | CB-1414GP (5M,6M,7M, 84-ON) SH-1068A (66-84) | C.R. 1-6 | 52.000 | 55.015 | 1.499 | 20.00 | 0.021-0.090 | 4.2-4.8 | 13041-42010 |
| | | Cam No.1-4 | 34.996 | 38.014 | 1.509 | 20.10 | 0.012-0.064 | 1.5-2.2 | 11022-41010 |
| | | No.1/L | 34.996 | 38.014 | 1.509 | 28.00 | 0.012-0.064 | | |
| 6M 6 cyl 83 x 91 2954cc | PB-1051J (66-ON) DB-1171B (79-ON) | P.B. 1-6 | 22.009 | 24 | 1.035 | 24.80 | 0.005-0.011 | | 90999-73066 |
| | | D.B. No.1 No.2 | 40.970 32.970 | 44.975 36.975 | 2.020 2.020 | 16.20 16.20 | 0.025-0.060 0.025-0.060 | | 11022-41010 |
| 7M 6 cyl 83 x 91 2954cc | | | | | | | | | |