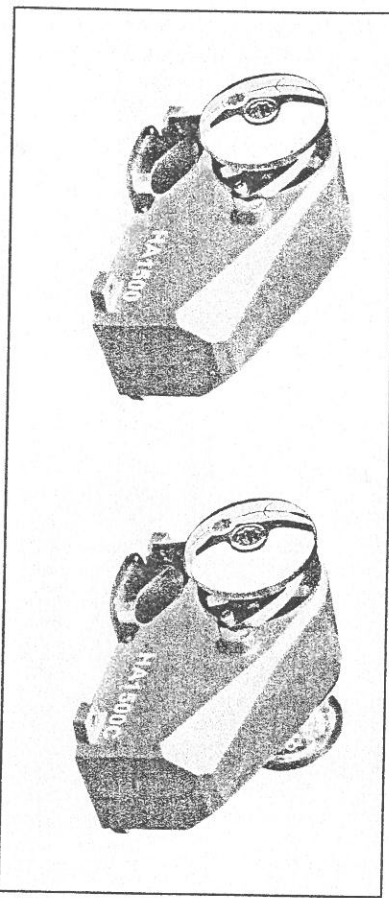


Owners Installation & Operation Manual

Please read this user manual carefully before using the product

HA1500, HA1500C



09/2020

Grand Winches Industry Co., Ltd. Taiwan
South Pacific Industrial Pty Ltd. Australia
www.southpacific.com.tw



I FEATURES

- Self tailing rope/chain combination stainless steel gypsy
- Improved strong structure with self-locking gear box provide tremendous lifting and high stress capacity
- Marine grade aluminum alloy and powder coating finished
- Heavy duty DC motor with long life and high output torque
- Heavy duty control system included

II PACKAGE CONTENTS

- WINDLASS × 1
- CONTROL DEVICE × 1
- USER MANUAL × 1
- MOUNTING TEMPLATE × 1
- HARDWARES (PACK) × 1

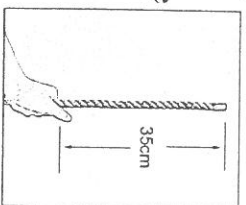
III SPECIFICATIONS

HA1500, HA1500C			
Suit Boats Size	12~18M/40~60ft	Continuous Working	Max. 20 minute
Handle Anchor Size	27kg/60lb	Typical Current Draw	90A
Comparable Model	1500W Model	Motor Type	Permanent magnet
Input Voltage	DC 12V	Motor Wattage	1500W
Max. Working Load	680kg/1500lb	Motor Efficiency	82%
Typical Working Load	120kg/265lb	Suit chain Size	8,10mm, 5/16", 3/8"
Max. Retrieval Speed	20m(67ft)/min	Rope Size	14,16mm/9/16", 5/8"
Pay-out Speed	22m(73ft)/min	Weight	16kg(35lb), 18kg(40lb)

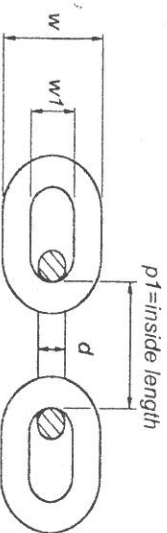
South Pacific Industrial Pty Ltd reserves the right to alter or change specifications without notice.

It is very important to choose the correct type of rope and chain, to ensure proper running of the windlasses.

Rope- Must use three strand, low stretch medium-lay (hold 35cm from the end it can stand up)
 We recommend Filament PE, Polyester or Nylon rope
Do not use soft rope. Soft rope will slip and cause a rope jam in the gypsy. It will also lock the gypsy and cause circuit breaker to cut off often.



Chain- Must ensure that the inside length "p1" is suitable for the gypsy. Otherwise, the chain will jam (too small) or skip tooth (too big) in the gypsy and eventually damage the release arm. Please refer to the chart below.



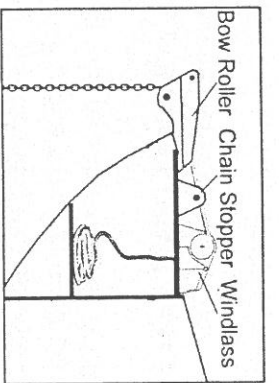
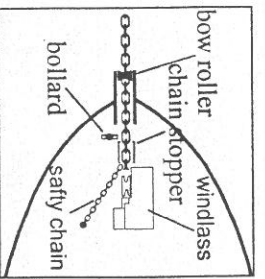
Gypsy	Inside Length	Chain Size	Rope Size
R0380 sus	23.5~26.5mm	8mm DIN766, 5/16"BBB	12~14mm
R0360 sus	28~32mm	10mm DIN766, 3/8"BBB	14~16mm

Note: The rope size indicated is its actual diameter measured

IV INSTALLATION

1. PLAN

- First of all, a suitable Bow Roller must be installed to support the anchor, chain and rope.
- A bollard or snubbing device should be installed between the bow roller and windlass to tie the rope on while being anchored or securing the anchor in the fully raised position.



c. If you are using only chain, a **chain stopper** should be installed between the bow roller and the windlass to take the drag force away from the windlass while being anchored.

d. Ensure there is a drain in the chain locker and always keep it clear to prevent the water level rising and make sure the chain locker is deep enough to store the rope and chain. If the anchor well is not deep enough the rope and chain will build very quickly and block the entrance.

2. CONSTRUCTION

a. Find a suitable position for the windlass, with reference to the vessel's bow roller, rope and chain locker below.

b. Place the mounting template on the deck in the desired position for the windlass and hold it in place using adhesive tape

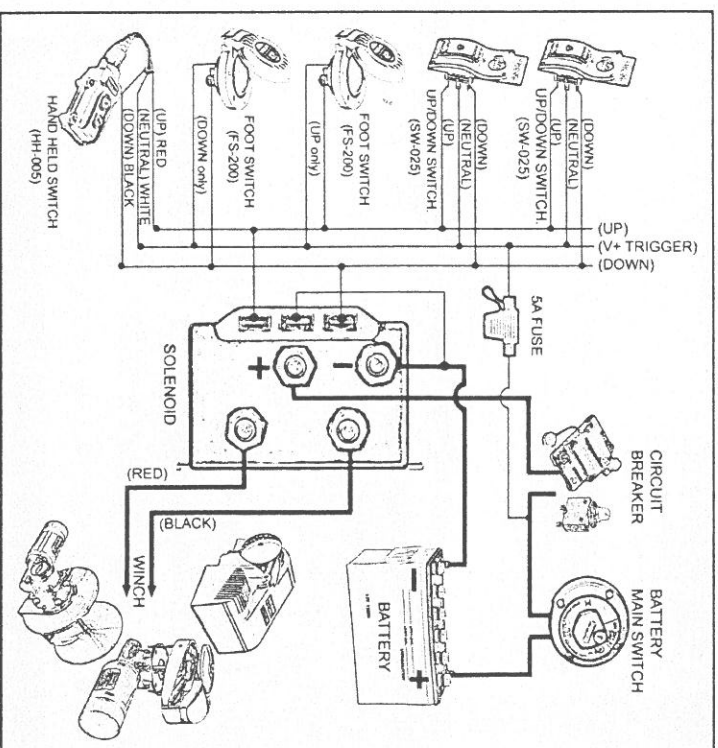
c. Use a hole saw and drill to make a hole for the drive shaft and four holes for the mounting thread rods and with a jig saw, cut the hole for rope and chain to pass through. Use a file to smooth any rough edges. To avoid water absorption by the deck, apply paint to the cut hole edges

d. Apply anti corrosive compound "Duralac" on thread rods to inhibit electrolytic decomposition on aluminum housing and secure them to the base of the windlass, then secure the windlass

firmly to the deck from below using the nuts and washers supplied.

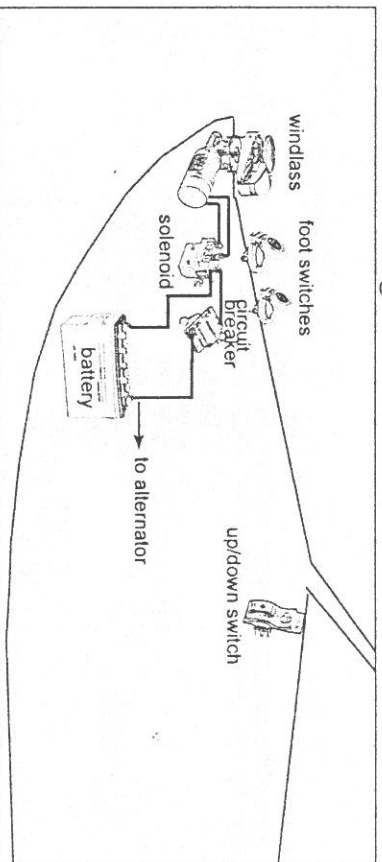
e. Mount control device at a suitable position either in the cabin or close to the operating area.

d. Set up the control system follow the chart below



h. Connect the windlass, control unit and power source using electric cable indicated below. Keep the power supply cable as short as possible. Too thin and/or too much length of electric cable will reduce the performance of the windlass or cause the circuit breaker to work incorrectly.

Due to the heavy current draw from HI500 series, we recommend the use of an independent battery (also require charge from an alternator) with a minimum capacity of 55AH seated close to the windlass to minimize power loss and reduce cost of electrical cable. Please refer to the diagram below.



Note: For safety reasons, cut off the winch power from the main or circuit breaker while not in use.
If the winding direction is not as desired, you can switch over the wires on the winch.

3. TO INSTALL ANCHOR ROPE AND CHAIN

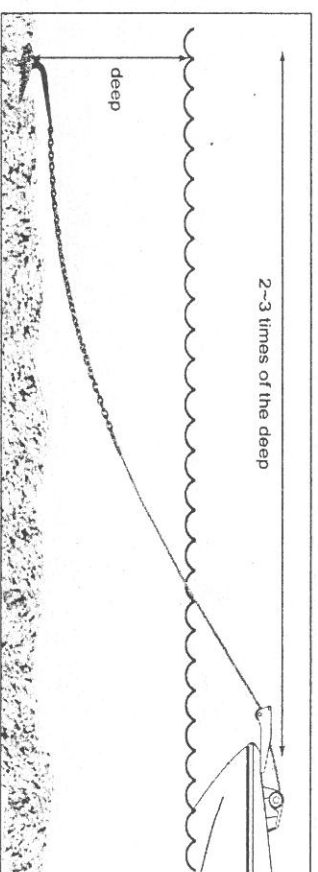
To splice rope to the chain, please refer to the video below.
<https://www.youtube.com/watch?v=c1QnvlTRfwM>
Do not use a hook or shackle to join the rope and chain.



V OPERATING

1. During operating, if the circuit breaker cut off it means the motor is overloaded. After about 10 seconds press the button to reset.

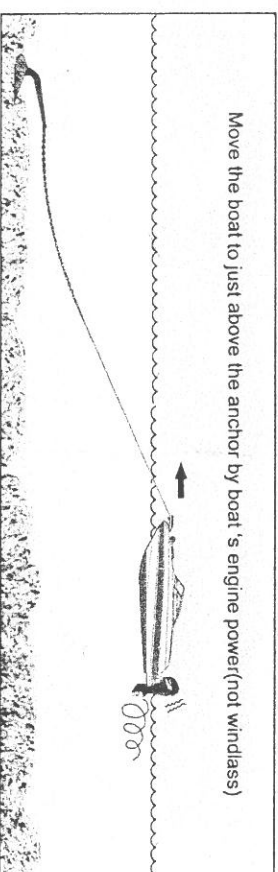
2 Pay out the rope and chain approximate 2~3 times the water's depth for a firm casting while being anchored.



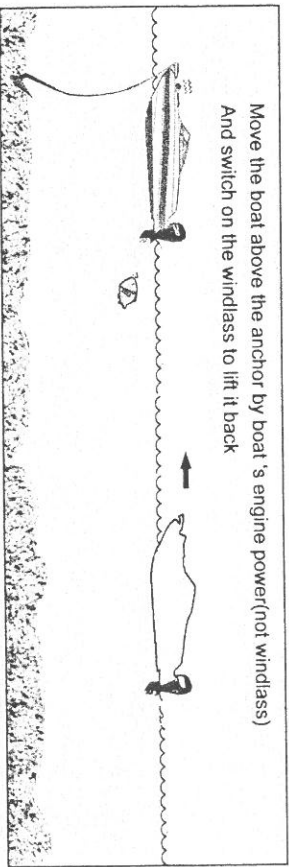
3. Keep limbs, fingers, clothing and hair clear of the windlass and anchor to avoid possible personal injury during operation.

4. **Tie the anchor rope firmly to the bollard when the anchor is cast and the boat is moored.** Do not allow the windlass to take the force of a boat's drag. If using all chain, a chain stopper is necessary between the bow roller and windlass to take the force off the boat's drag.

5. When retracting, untie the rope from the bollard. Then move the boat to the position just above the anchor by boat's engine power(not by winch's power) and switch on the winch to retrieve it.



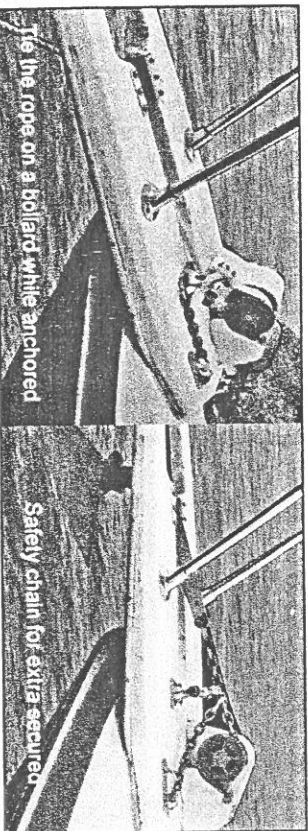
When the anchor is close to the bow roller, **slow down the roll in by pausing the switch.**



NOTE: The windlass is designed to lift the anchor, rather than to drag the boat or for mooring.

6. If the anchor is stuck on the sea bed or reef, tie the rope on the bollard and detach it by the boat's engine power before operating the windlass or else it may cause damage or overstrain the windlass.

7. *After use, secure the anchor firmly in place in the boat by an extra device (such as hook, shackle...) to avoid damage caused by the anchor falling during transport.*



8. The anchor windlass is not designed for continuous operation. Do not use for more than *20 minutes* at a time under loading. Allow an interval of 30 minutes after each operation.

9. For HA1500C with capstan model only:

You may operate the capstan only, by loosening the nut on the top of gypsy for approx. one turn(clock-wise) and the windlass drive shaft will drive only the capstan but not the gypsy.

WARNING: secure the chain before this operation proceed

★OPERATING SAFETY IS THE FIRST PRIORITY★

VI MAINTENANCE

1. The W Series comes with a sealed oil lubricated gear box.

There is no need for extra lubrication. please check oil level after every 500 uses and using synthetic 10W-40 engine oil if needed.

2. In order to allow the windlass to perform at optimum capacity and extend its life, use fresh water to wash off salt water after each use.

3. *Always keep the chain locker drain clear to prevent water damage on the motor.*

VII WARRANTY

1. The warranty is deemed as effective only under conditions of normal operation, maintenance and without modification of the product.

2. CLAIMS

If the product needs servicing, please send it back to your local distributor with the proof of purchase. However, the cost of postage or removal from the boat will be borne by the owner.

Thank you for choosing South Pacific products

Purchase Date:	Model:
Supplier Name:	
Address:	
Phone:	Fax: