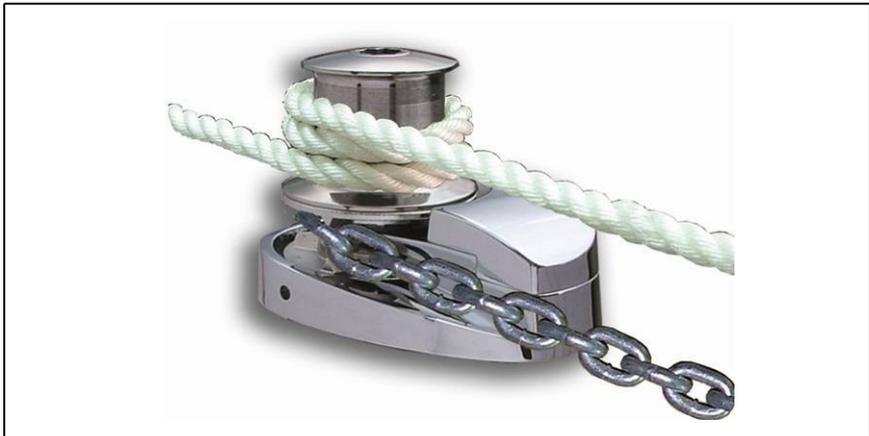

Owners Installation & Operation Manual

Please read this user manual carefully before using the product

Model: VA, VN and VS series



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I FEATURES

- Self tailing rope/chain combination stainless steel gypsy
- Efficient spur gears provide tremendous lifting capacity
- Heavy duty DC motor with long life and high output torque
- High efficient permanent magnet motor with low current draw
- One-Piece design with no separate parts, easy to install
- Strong structure and long performance life
- Emergency retrieval handle bar included

II PACKAGE CONTENTS

- WINDLASS × 1
- CONTROL DEVICE × 1
- HANDLE BAR × 1
- USER MANUAL × 1
- MOUNTING TEMPLATE × 1
- ACCESORIES : Thread rod M8 × 100mm × 3
 - Nut M8 × 3
 - Washer M8 × 3
 - Spring Washer M8 × 3

III SPECIFICATIONS

	VN600 / VA600,VS600	VA1000, VS1000
Suit Boats Size	18ft~28ft / 18ft~32ft	28ft ~ 45ft
Handle Anchor Size	27lb / 30lb	42lb
Comparable Model	600W Model	1000W Model
Input Voltage	DC 12V	DC 12V or 24V
Max Working Load	275kg(600lb)	450kg(1000lb)
Typical Working Load	45kg(100lb)	72kg(160lb)
Retrieval Speed	20m(67ft)/min.	18m(60ft)/min.
Pay-out Speed	22m(75ft)/min.	20m(67ft)/min.
Continuous Working Time	Max. 20 min.	Max. 20min.
Current Draw	16Amp	25 or 13 Amp
Motor Type	Permanent magnet	Permanent magnet
Motor Wattage I/O	700W/300W	1100W/450W
Motor Efficiency	75%	82%
Gear Type / Efficiency	Spur Gear/92%~97%	Spur Gear/92%~97%
Gypsy	R0156V / R0156V or R0067V	R0067V
Dimension	195x130x275mm 7.7"x5.1"x10.8"	195x130x275mm 7.7"x5.1"x10.8"
Weight: w/o Capstan w Capstan	5.0kg(11lb) / 6.5kg(14.3lb),8.5kg(19lb) Non / 7.5kg(16.5lb),9.5kg(20.9lb)	7kg(15.4lb) / 9.0kg(20lb) 8kg(17,6lb) / 10kg(22lb)

Gypsy to suit chain and rope

	R0156V (6 pocket)	R0067V (5 pocket)
Chain Size	6mm short link 6~7mm DIN766	8mm short link 8mm DIN766
Rope Size	12mm, 1/2" three strand, medium lay	12~14mm, 1/2"~9/16" three strand, medium lay

Note: The rope size indicated is its actual diameter measured

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, **medium-lay**. We recommend Filament Polyester, Premium Nylon or Silver rope(Australia). **Do not use soft rope**. Soft rope (either polyester or nylon) will slip and cause a rope jam in the gypsy. It will also lock the gypsy and cause circuit breaker to pop-up often.

Chain- Must ensure that the distance between every other link “d” is suitable for the gypsy. Please refer to the chart below.

SELECT THE CORRECT SIZE OF CHAIN AND ROPE



Gypsy	R0156 for 6,7 mm / 1/2"	R0067 for 8 mm / 5/16"
d	37~44 mm	47~55 mm
Rope	12mm(1/2")	12~14mm 1/2"~9/16"

d: The distance between every other link

IV INSTALLATION

1. TOOLS REQUIRED

a. Electric drill



b. Adjustable spanner



c. Jig saw



d. File



e. Philips head screwdriver



f. Silicon glue

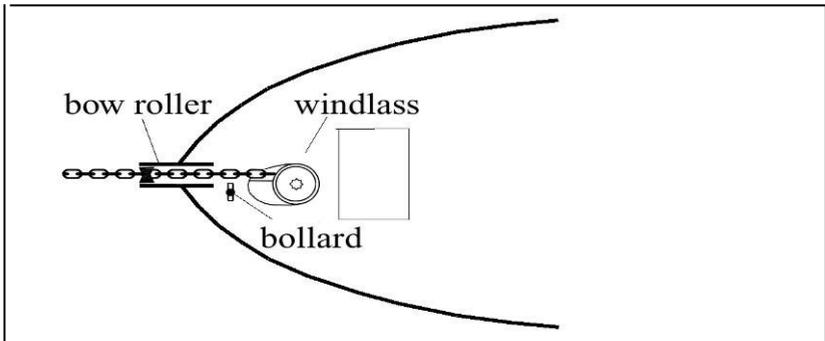


2. PLANE

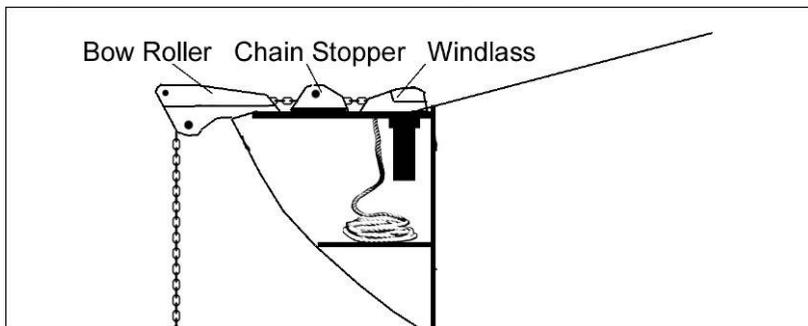
- a. First of all, a suitable Bow Roller must be installed to support the anchor, chain and rope.

The length of some Bow Rollers can be too short. This will cause the anchor to hit the hull when lifted. Install a longer Bow Roller should this situation occur

- b. 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.

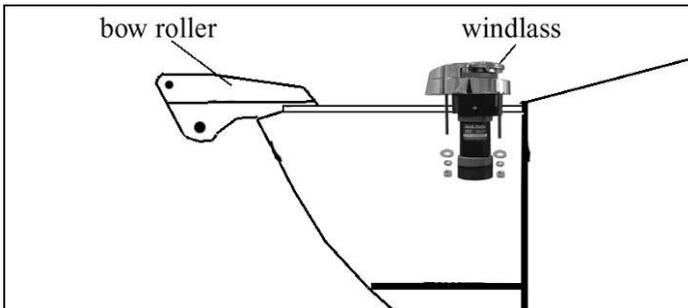


- d. Make sure the anchor well or the chain locker is deep enough to store chain and rope. The minimum depth is 40cm(1¹/₃ ft) to store about 30 metre(100ft) of rope. If the anchor well is not deep enough the rope will build up very quickly and block the entry.

3. CONSTRUCTION

- a. Place the windlass on the deck and find a suitable position for it,

-
- 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 10mm(3/8") diameter drill to make three holes for the mounting thread rods
 - d. With a jig saw, cut the hole for the gear box and rope and chain to pass through. Use a file to smooth any rough edges. To avoid water absorption from the deck, apply paint to the cut hole edges.
 - e. Secure thread rod to the base of the windlass, then apply a silicon sealant to the base of the windlass and around the thread rod. Secure the windlass firmly to the deck from below using the nuts and washers supplied

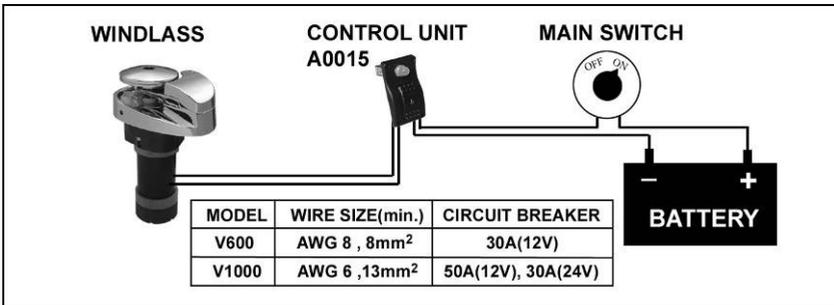


- f. Mount control device at a suitable position either in the cabin or close to the operating area.

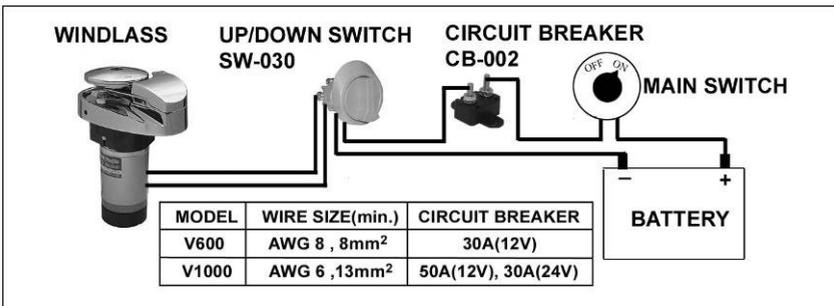
g. Connect the windlass, control unit and power source using electric cable indicated below. Keep the power supply cable as short as possible. Too thin and/or too much length of electric cable will reduce the performance of the windlass or cause the circuit breaker to work incorrectly.

There is one control device that is included in the package, please refer to the connection diagram below.

*For A0015 control unit:

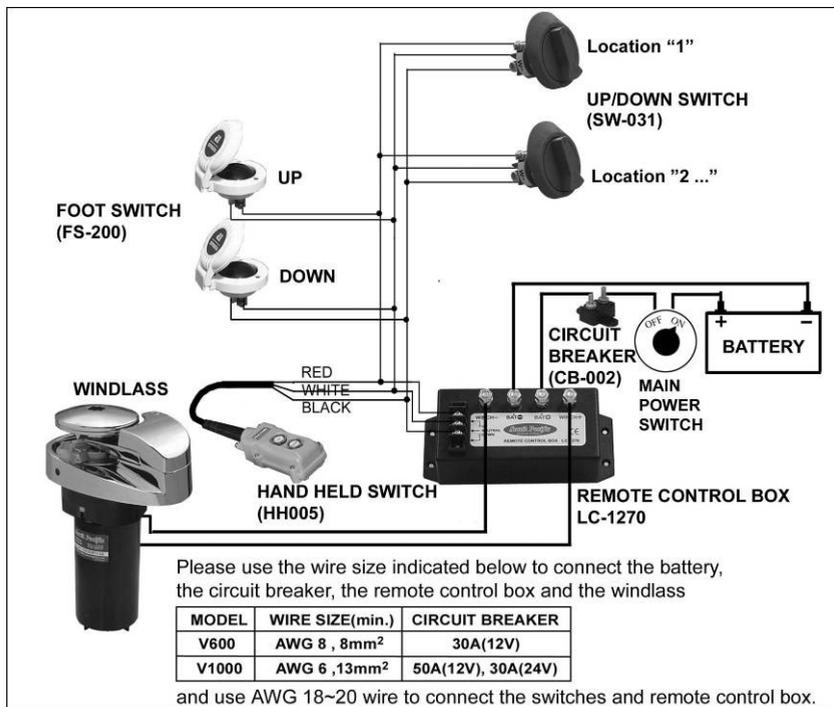


*For SW-030 switch & CB-002 circuit breaker:



h. Using foot switches or multiple control switches, a “Remote Control Box(reversing solenoid) LC-1270” is necessary.

Note: For better performance, we recommend to use “Remote Control Box” instead of “control unit” or ”SW-030” for V1000 series windlass.

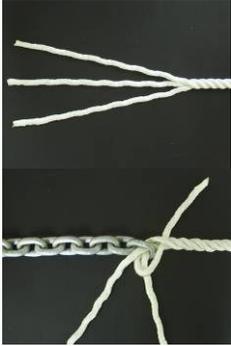


NOTE: For safety reason, do not connect the power source direct to the battery. Please connect the power cable to the main power switch on your boat.

4. TO INSTALL ANCHOR ROPE AND CHAIN

To splice the rope to the chain, please follow the steps below.

Do not use a hook or shackle.



STEP 1:

Unravel the end of the rope for about 20cm and secure the end of the strands with tape.

STEP 2:

Pass three strands through the last link of the anchor chain. Untwist the rope to raise a strand just below the tie on the standing part of the rope and insert one strand under it, then pull the strand through. Twist the strand to keep it tightly wound as you pull it through.



STEP 3:

Take the next strand on the left. Tuck it under the next strand to the right of the one under which the first strand was tucked. Pull it through as before.



STEP 4:

Now turn the whole eye over. Take the last strand and make the tuck as before under the only strand on the standing part of the rope not used yet. Stop and ensure that each working strand has gone over a strand and under a strand, and that the whole lot is pulled tight and twisted in its natural sense. No two strands

should come from under the same strand.



STEP 5:

For the remained rounds of tucks, take each end over one strand and under the next one to the right, in the same order as before.



STEP 6:

To finish, pull the ends tight. Cut the excess off with a hot knife. A good way to do this is by heating a butter knife with a butane torch, or a gas stove if handy. This cuts and seals the individual strands resulting in an excellent frayless finish.



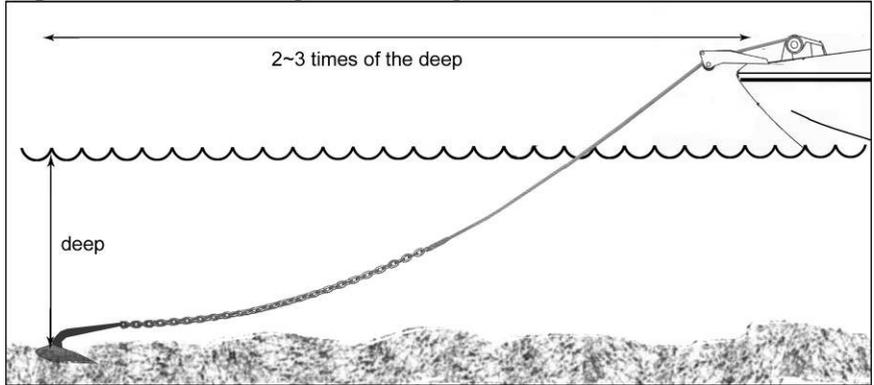
STEP 7:

After you've spliced the rope to the chain, tie both ends of the splice rope to prevent the rope from loosening.

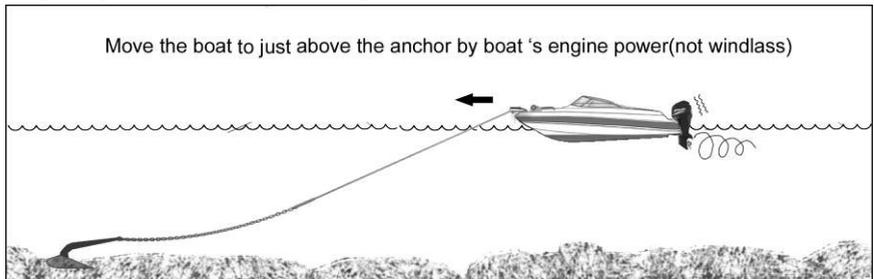
V OPERATING

1. Two devices are on the Control Unit A0015. The round one at the top is a circuit breaker to protect the windlass from over load. If the button bounces, it means the motor is overloaded. Press the button to reset. The other one is a two-way switch. Press DOWN to pay out the anchor and press UP to retrieve it.
For SW-030 & CB-002 control device, the CB-002 circuit breaker is an auto reset type.
- 2 Pay out the rope and chain approximate 2~3 times the water's

depth for a firm casting while being anchored.

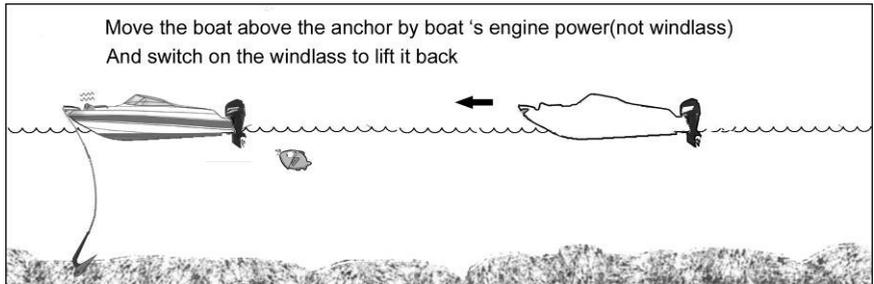


3. Keep limbs, fingers, clothing and hair clear of the windlass and anchor to avoid possible personal injury during operation.
4. ***Tie the anchor rope firmly to the bollard when the anchor is cast and the boat is moored.*** Do not allow the windlass to take the force of a boat's drag. If using all chain, a chain stopper is necessary between the bow roller and windlass to take the force of the boat's drag.
5. When retracting the anchor, untie the rope from the bollard. Then move the boat to the position just above the anchor by boat's engine power(not windlass power)



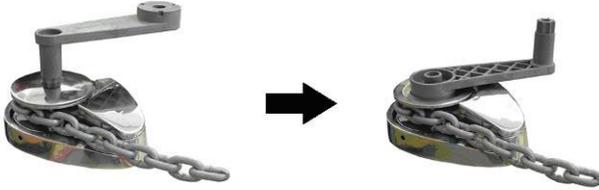
and switch on the windlass to lift it back. ***When the anchor is close to the bow roller, slow down the roll in by pausing the***

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 seabed or reef, 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*** to avoid damage caused by the anchor falling during transport.
8. The anchor windlass is not designed for continuous operation for long periods. Do not use for more than 20 minutes at a time under loading. Allow an interval of 20-30minutes after each operation.
9. For windlasses with capstan model only:
You may operate gypsy and capstan separately by loosening the nut on the top of the capstan approx. one turn and the windlass drive shaft will drive only the capstan.
- 10 Emergency manual retrieval:
 - If there is a power failure or unit failure, you can use the handle bar to remove the gypsy cover and attach the handle bar to the gypsy for manual operation.



★OPERATING SAFETY IS THE FIRST PRIORITY★

VI MAINTENANCE

1. The V Series windlasses come with a sealed grease lubricated gear box. There is no need for extra lubrication.
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. Periodically check the electric joiner and the silicon sealant.

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 (or bring it to us) with the proof of purchase and we will investigate the product free of charge before repairing. However, the cost of postage or removal from the boat will be borne by the owner.
3. **LIMITATIONS AND EXCLUSIONS**

The warranty will be deemed effectively only if used on a non-commercial basis and will be invalid under the following conditions:

- a. Operation exceeds the designed specifications
- b. Use for purposes other than indicated
- c. Disassembly or modification of the product
- d. Installation of other parts on the product
- e. Third party products even if associated or used together with this product.

VIII IMPORTANT INFORMATION

1. In every circumstance, the operator must make safety as the first priority. An inexperienced person or a child should not operate this product. The manufacturer takes no responsibility for any damage, property loss or injury caused from improper operation.
2. If a product is accepted for refunding, the manufacturer is not responsible for any renovation of the boat.

