
Owners Installation, Operation Manual

Please read this user manual carefully before using the product

For Windlass 710 series



710H, 710F



710Hs, 710Fs

710 series windlass are not suitable to use all chain

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I FEATURES

- Gypsy can take both chain and rope.
- Heavy duty DC motor with long life and high output torque
- Selectable free fall or power out mode (for free fall model)
- Aluminum alloy housing with powder coated finish
- Compact one-piece housing to ensure water resistance
- Simple deck mounting with no parts under deck
- Strong structure ensures long performance life
- Step by step installation video CD included

II PACKAGE CONTENTS

- WINDLASS × 1
- CONTROL DEVICE × 1
- USER MANUAL × 1
- MOUNTING TEMPLATE × 1
- ACCESSORIES : Thread rod M8 × 100mm × 4
 - Nut M8 × 4
 - Washer M8 × 4
 - Spring Washer M8 × 4

III SPECIFICATIONS

	710H, 710Hs / 710F, 710Fs
Suit Boats Size	15 ~ 20 ft
Handle Anchor Size	Up to 15 lb
Comparable Model	300W Model
Input Voltage	DC 12V
Max Working Load	120kg(265lb)
Typical Working Load	20kg(45lb)
Retrieval Speed	17m(57ft)/min.
Pay-out Speed	22m(73ft)/min. / Free Fall
Continuous Working Time	15 min.
Current Draw	12Amp
Motor Type	Permanent magnet
Motor Wattage I/O	600W/250W
Motor Efficiency	74%
Gear Type / Efficiency	Worm Gear/50%~88%
Chain Size	6mm short-link 7mm DIN766 1/4" BBB
Rope Size	12mm(1/2")
Dimension	230x120x135 mm 9"x4.75"x5.3"
Weight	4.0kg(8.8lb), 4.3kg(9.5lb)

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

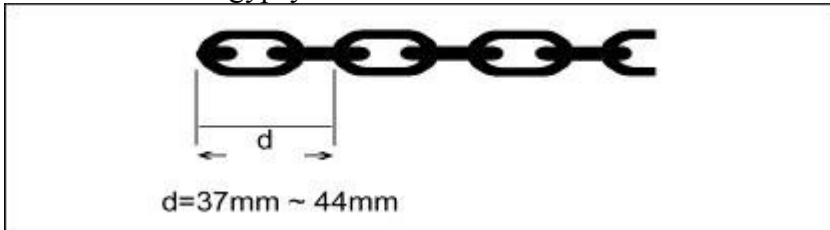
Gypsy to suit chain and rope:

Gypsy	A0001Nylon or R0156H stainless steel
Chain Size	6mm short link 7mm DIN766 1/4"BBB, 1/4"G4 HT
Rope Size	12mm or 1/2" 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 12mm or ½ inch, 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 overstrain the gypsy or causing a rope jam in the gypsy and cause circuit breaker to pop-up often.

Chain- You can choose any one of these size of chain, 6mm short link, 6~7mm DIN 766, ¼ inch BBB, ¼ inch G4 HT which is available in your region. (not to exceed 5 metre or 17ft long). The distance between every other link “d” must between 37mm and 44mm to suit the gypsy.



Running-In Gears- It is normal in the initial period (under load) to observe a noise and lack of power or circuit breaker to pop-up often, this is caused due to the worm gears Running-In. After about 10 uses, the gears will become smooth, noticing a regain in power and noise reducing effect.

IV INSTALLATION

1. TOOLS REQUIRED

a. Electric Drill



b. Adjustable spanner



c. Jig saw



d. File



e. Philips head screwdriver

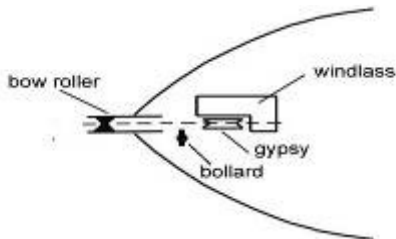


f. Silicon glue



2. PLANE

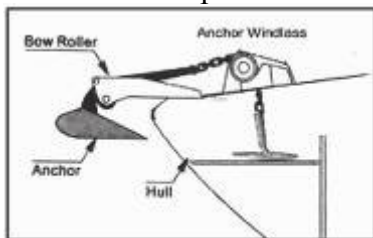
- a. First of all, a suitable Bow Roller must be installed to support the anchor, chain and rope.
- b. A bollard or snubbing device should be installed between the bow roller and the windlass as the rope should be tied on the bollard while laying anchor or securing the anchor in the fully raised position.



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- c. Make sure the anchor well or the chain locker is deep enough to store chain and rope. The minimum depth is 40cm(1 1/3 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.

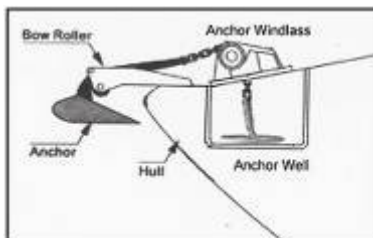
- Flat deck:

Mount on the top of the deck.



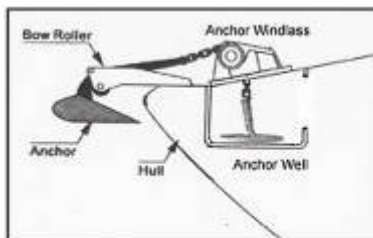
Attach plywood under the deck to spray the force, if it is an aluminum, or fibre glass deck thinner than 5mm.

- If there is a hatch and anchor well below and without internal access to the cabin:



You may mount on the top of hatch and attach plywood under the hatch to spray the force.(You need to be able to open the hatch, if the rope gets tangled)

- If there is a hatch and anchor well below and with internal access to the cabin:

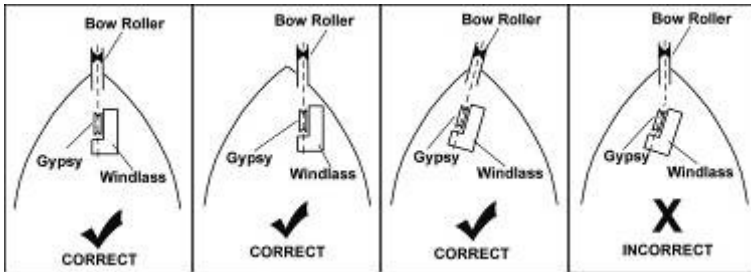


You can also mount on the top of hatch and attach plywood under the hatch to spray the force. The best result is to replace the hatch into plywood and secure the plywood to the deck.

Note: While anchored, always tie the rope to the bollard. Do not allow the windlass or the hatch to take the strength from the anchor rope.

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.

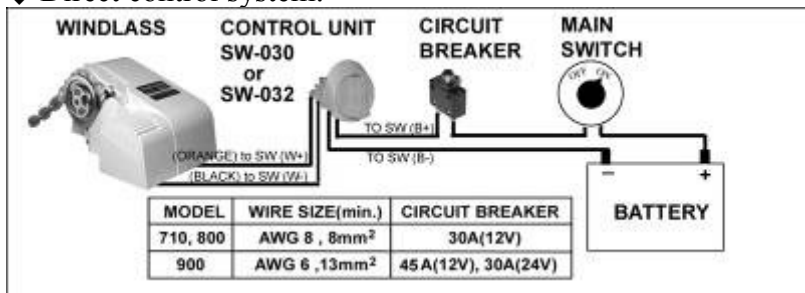


- b. Place the mounting template on the deck in the desired position for the windlass and hold it in place using adhesive tape
- c. Use a 10mm(3/8") diameter drill to make four holes for the mounting thread rods and make a fifth hole to pass power supply cables through.
- d. With a jig saw, cut the hole for the 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.
- e. Secure thread rod to the base of the windlass, then apply a silicon sealant 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 system that is included in the package, please refer to the connection diagram below.

◆ Direct control system:



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.

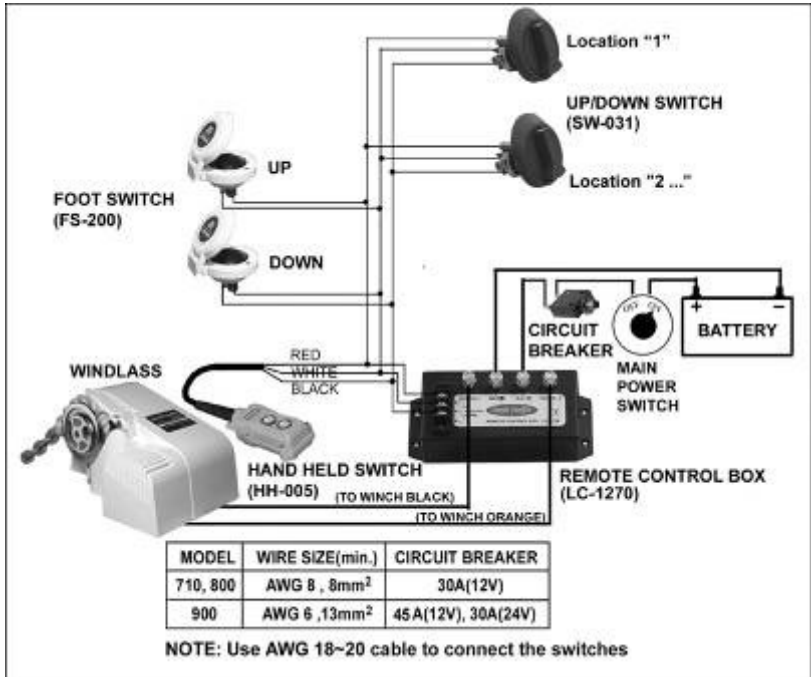
Note: SW-030 with dynamic brake, can not be parallel, apply to all models.

SW-032 without dynamic brake, can be parallel, recommend for 710 series only.

SW-030 & SW-032 can not exist at the same time.

◆ Indirect control system:

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



Note: Direct control system and indirect control system can not exist at the same time.

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:

Unraveling 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 remaining 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

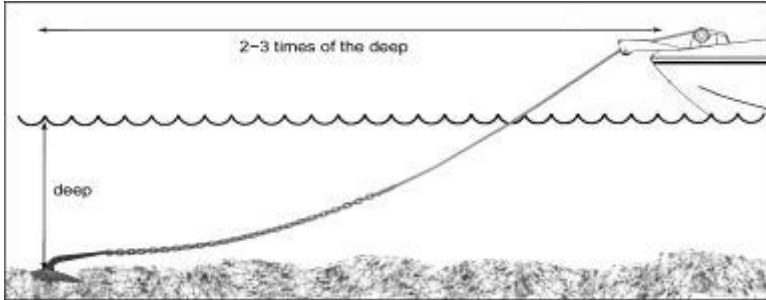
1. During operating, if the circuit breaker bounces it means the motor is overloaded. Press the button to reset.

For free fall model only: When releasing anchor, press switch "DOWN" *and hold it* to free fall the anchor to the sea bed (It is normal for the windlass motor to be running and the clutch will stay at open), until the current has drifted the boat to a desired location and the anchor has cast firmly in the sea bed, release the switch to engage the clutch.

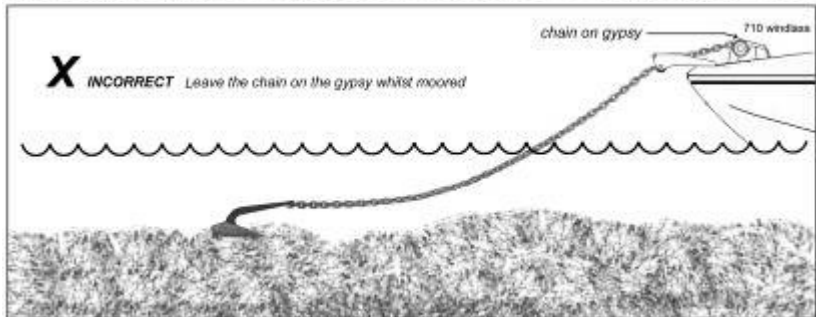
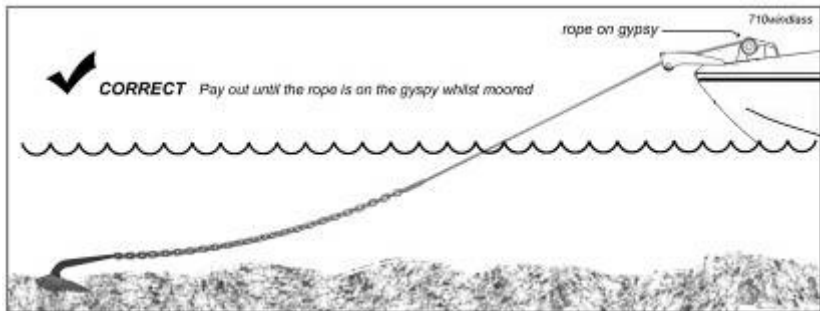
You can set the rotating "Free Fall" switch(in the right hand side of windlass) by a flat screw driver to be a "on"(free fall) mode or "off"(Power Out) mode.

Note: Please free fall anchor to the bottom in one fall. (Do not release the control switch during the anchor's fall.

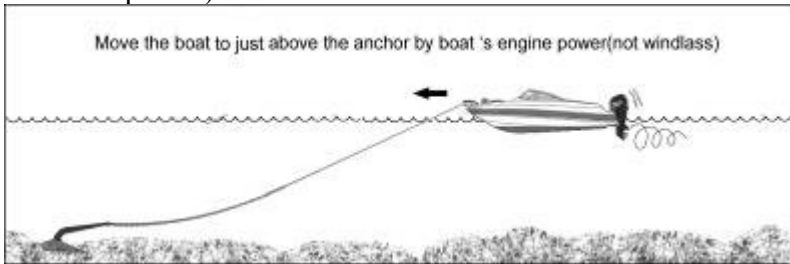
2. Pay out the rope and chain approximate 2~3 times the water's depth for a firm casting while being anchored.



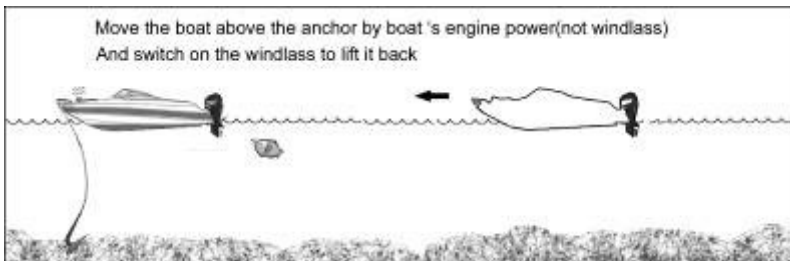
3. Keep limbs, fingers, clothing and hair clear of the windlass and anchor to avoid possible personal injury during operation.
4. To prevent damage to the windlass always pay out the line until the rope (NOT the chain) is on the gypsy, this is especially important for mooring in shallow waters. The tension in the rope will reduce the impact of the boat's drag when moored.



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5. 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.
 6. When retracting the anchor, untie the rope from bollard. move the boat above the anchor by boat's engine power(not the windlass power)



and switch on the windlass to drag 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.

7. 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 the load may overstrain the windlass.
8. ***After use, secure the anchor firmly in place*** in the boat to avoid damage caused by anchor falling during transport.

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9. 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.

★OPERATING SAFETY IS THE FIRST PRIORITY★

VI MAINTENANCE

1. The windlasses come with a grease lubricated gear box. There is no need for extra lubrication
2. In order to make the windlass 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 and excludes 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 first priority. An inexperienced persons or a child should not operate this product. The manufacturer takes no responsibility for any damage, property loss or injury as a result of improper operation.
2. If a product is accepted for refunding, the manufacturer is not responsible for any renovation of the boat.