

Keep this manual in your boat.

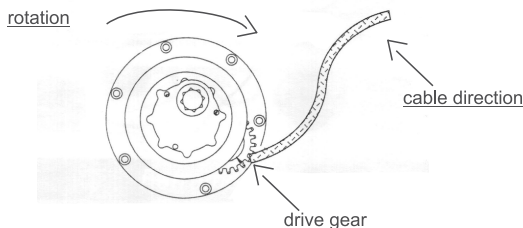
PAY ATTENTIO TO:

Boat Installation

It is always recommended that professionals be sought to install more complex and vital items such as winches, but you may be able to perform the task if you are careful to follow these precautions.

1 – With the winch in place, check the following

- a) The path the cable should make
- b) The circumference of handle action
- c) The angle that the cable enters the winch (between 5 and 10 degrees, see fig. 5)
- d) The position of the ratchet in relation to the cable input and resulting direction of effort.
- e) with the ratchet seen from above and without a drum, is visible the conductive gear (1). The cable should enter the drum at the position indicated on the drawing.



2 – Once the location is determined

- a) Mark the center
- b) Open the winch in accordance with item 3, from a) through e)
- c) Mark each site and start drilling 8mm (5/16") holes
- d) Check each hole against the winch before continuing

3 – Opening the winch

- a) Remove the elastic ring using a screw driver
- b) Remove the plastic covering
- c) Remove the central screw
- d) Remove the drum, being especially careful not to lose the internal bearings
- e) Keep the open winch away from dust and the shavings



When the drilling is completed, apply a good quality sealant in all flat surfaces around the screw holes .Be careful to keep all the drains free, if excess sealant should block the drains or stick to the axles or gears, the winch may not function properly and you will lose the warranty.

Use stainless steel screws with flat heads; partially-threaded screws are preferable.

Adjust the self tailing arm. Reassemble the winch. Spread anti-rust Nautos BLUE compound on all the screws, underneath the stainless-steel plate, on top and where the self tailing support touches the winch.

Regular Maintenance

Every winch should be disassembled, cleaned and lubricated at least once a year.

It is recommended that the following procedures be done twice a year

a) Open the winch as explained in item 3

b) Using an Allen 6 wrench, remove the screws

Winch Number	Screws product code	quantity
48	30028	4

c) Carefully remove the upper body pulling using a vertical motion. Some axles may be pulled off along with the structure, others will remain attached to the base.

d) Remove each axle with its gears and bearing. Disassemble, clean, lubricate and reassemble. Leave them to the side.

e) Clean the base and the stem (haste). Using a brush, spread a thin coating of grease on the entire surface.

f) Use Nautos Lube on the gears, axles and metallic bearings. Use a lightweight oil on the springs and pawls

g) Reassemble the winch. Remember to apply protective grease on the screws before tightening them.

h) Reassemble the upper plate and the SELF ARM – Always use anti-rust Nautos blue compound to protect these parts.

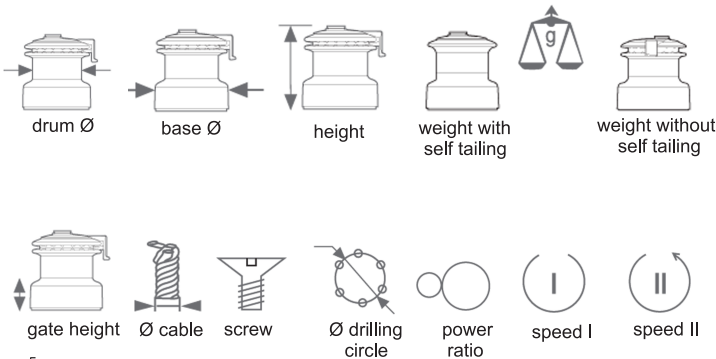
Required Installation Tools

- Drill
- Bits - 5mm (3/16") 6.5mm (1/4")
- Small screwdriver
- A screwdriver that is appropriate for the winch screws
- Cloths
- Awl
- Hammer

Required Maintenance Tools

- Small screwdriver
- Cloths
- Kerosene
- Allen Screwdriver
- 25mm (1") paintbrush
- Lightweight oil
- Nautos grease
- Anti-rust compound

Identification of Icons



Warranty

Nautos winches carry a four-year warranty, from date of purchase, covering defects in parts and workmanship.

Defective parts should be returned to the retailer where item was purchased or to Nautos, which shall decide whether to repair or replace the product.

The return of a defective product should be accompanied by a letter indicating name, address, telephone, date of purchase, an explanation of the defect and the conditions under which the product was being used. Whenever possible, the date of purchase should be confirmed by a copy of the sales receipt. It is best if returns are made to a Nautos retailer. Items returned to Nautos should have shipping paid by sender.

In most cases, the retailer will be able to help the buyer ascertain the problem and examine the warranty, thus avoiding needless shipping.

The warranty does not cover product defects caused by improper installation and/or maintenance, incorrect use or operating under excess load.