



AQUA MARINA

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# Aqua Marina

## USER'S MANUAL

### 12V ELECTRIC BOAT MOTOR

#### T-18



[www.aquamarina.com](http://www.aquamarina.com)

# **AQUA MARINA®**

## **INSTRUCTIONS FOR 12 VOLT MOTOR**

### **ASSEMBLY**

Your 12V motor mounts directly to the boat. No special motor mount is necessary. Just feed the stainless steel pipe through the two black eyelets in the center on the back of the boat. (On other inflatable boats or small aluminum prams, you can use two brass eyescrews for the same purpose. Insert the eyescrews into the standard wooden motor mount provided with inflatable dinghies, or screw into the transom of an aluminum pram.) The triangular fitting which slides on the stainless steel pipe must rest on top of the lower eyelet. The small tension collar with thumb screw is affixed above the fitting preventing it from moving. (See diagram.)

When you are in shallow water, you must tilt up the motor. This is accomplished by opening the lower tension clamp and releasing the motor shaft. Pull up the motor and tilt it into the boat. Never perform this operation or any other adjustments on the motor or propeller without disconnecting the battery.

(BATTERY IS NOT INCLUDED)

### **INTRODUCTION**

The 12V motor is a lightweight, low power, electric outboard motor especially designed for lightweight, inflatable and other small boats. It is ideally suited for fishing in ponds, lakes and protected bays.

### **BATTERY**

Use any deep charge 12V battery (preferably a marine or motorcycle type.) A deep charge battery will supply constant electricity over a long period of time and can be fully run down and recharged. Liquid cell batteries are usually much more powerful and have a much larger capacity, which is always expressed in AH. It stands for ampere hours.

An automobile battery is not suitable, since it is designed to dispense a large burst of power and energy for a short period of time (when the car starts). It is immediately recharged by a generator. A car battery is not designed to be discharged fully and charged again.

### **BATTERY CONNECTION**

12V Volt system

- a. Connect the positive (+) brown (or red) lead to the positive(+) battery terminal.
- b. Connect the negative (-) blue (or black) lead to the negative(-) battery terminal.

## **CALCULATING RUNNING TIME OF YOUR BATTERY**

You can calculate the running time of your motor yourself. Simply divide the AH given by the battery manufacturer by 7, which is ampere draw at maximum load at full speed of your 12V motor. Example: 7AH – means running time of about 60 minutes at low speed and 28 minutes at high speed.

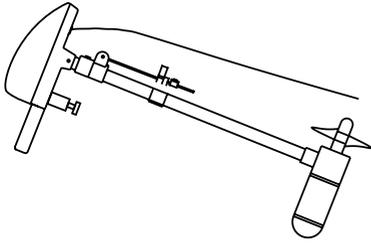
See the owner's manual issued by the battery manufacturer on how to properly handle and extend the life of your battery.

## **WARNINGS**

1. If seaweed or fishing line winds around the propeller or if you are stuck in mud, immediately switch off the motor. If you do not do this, the motor will overheat and burn out in approximately 5-8 minutes (in much less time if the motor is out of the water).
2. Always make sure the propeller is unobstructed and well clean the bottom of the boat. Swing motor around 360 degrees. Best performance is achieved if the propeller is submerged fully, but not more than 2-3" below the water line.
3. Wash the motor with fresh water after using it in the ocean.
4. Never let the motor housing submerge in salt water. If this happens, immediately turn the motor upside down and let it drain. Rinse off the motor in fresh water and repeat the draining and drying procedure as soon as possible. Chanced are very good that your motor will not be damaged.
5. If you hit a rock at full speed with the propeller, you may break a cotter pin and the propeller will spin freely on its axle. You must remove the propeller and replace the cotter pin. (A piece of wire or nail or even a hairpin will work well as an emergency pin.) However, you should get a supply of spare cotter pins at a hardware or marine store.
6. Do not leave the shore without taking along a fully charged battery, a foot pump, a pair of oars and life vests for each passenger.
7. Remember, in a fast flowing river, strong ocean current or a sudden windstorm, your 12V motor may not have enough power to bring you back to shore.
8. The propeller has surprising power and it could cause injuries to you and to swimmers.
9. Your inflatable boat equipped with a motor becomes a motor boat. You must know the rules of the sea in your country or region. Be careful and courteous of swimmers and other boatsmen.
10. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least free of charge.
11. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

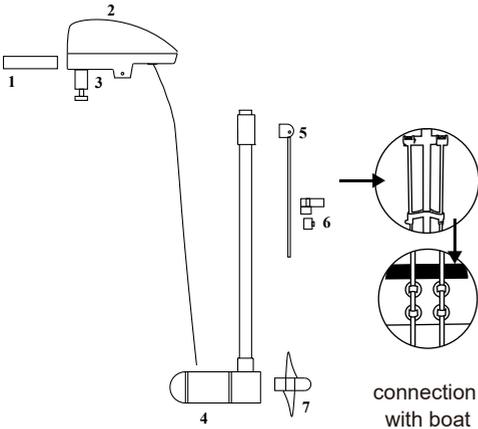
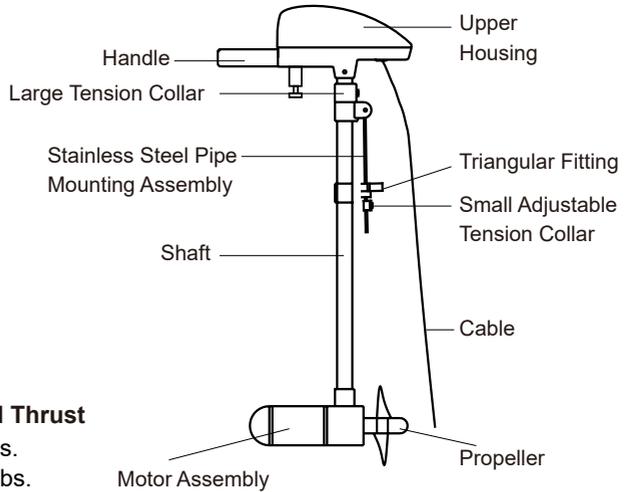
# 12 VOLT MOTOR

## Shallow Water Position



Technical Specifications  
Weight of Motor: 4.4 lbs.

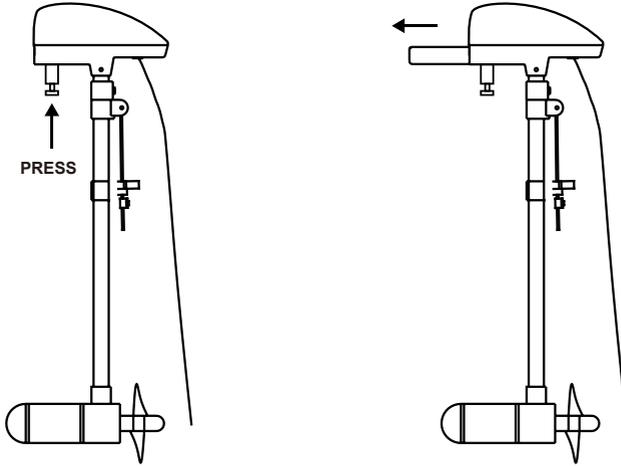
|                | <b>Current</b> | <b>initial Thrust</b> |
|----------------|----------------|-----------------------|
| Full load low  | 7.0 AMPS       | 7.9 lbs.              |
| Full load high | 14.7 AMPS      | 17.8 lbs.             |



## PARTS LIST

1. Handle
2. Upper Housing ( clips & cable)
3. Press Button
4. Lower Housing (with motor, shaft and big large tension collar and thumb screw).
5. Mounting Assembly (Stainless steel pipe and upper pivot).
6. Small Adjustable Tension Collar with thumb screw and Triangular Fitting with clamp for stainless pipe.
7. Propeller

# INSTRUCTION



## **Handle Set-up**

Press the button beneath the upper housing and the handle would pop out.

## **WARNING**

- Always disconnect battery when working on motor.
- If propeller is stopped by foreign object, shut off motor immediately to prevent engine burnout which will occur within 5 minutes.

## **LIMITED WARRANTY**

ORPC warrants to the original purchaser that the purchaser's entire AQUA MARINA® trolling motor is free from defects in materials and workmanship appearing within one (1) years after the date of purchase. ORPC will, at its option, either repair or replace, free of charge, any parts found to be defective during the term of this warranty. Such repair or replacement shall be the sole liability of ORPC and the sole remedy of the purchaser for breach of this warranty.

These limited warranties do not apply to motors used commercially or in salt water, nor do they cover normal wear and tear, blemishes that do not affect the operation of the motor, or damages caused by accidents, abuse, alteration, modification, misuse or improper care or maintenance. The cost of normal maintenance or replacement of parts which are not defective is the responsibility of the purchaser.

To obtain warranty service, the motor or part believed to be defective and proof of original purchase (including the date of purchase) must be presented to a ORPC Authorized Service Center or to ORPC. Any charges incurred for service calls or transportation to and from the ORPC Authorized Service Center or ORPC Customer Service Department are the responsibility of the purchaser. Warranty service can be arranged by contacting ORPC Authorized Service Center listed on the enclosed sheet, or by contacting ORPC at 0086-21-57402084 or fax 0086-21-57401306. Note: Do not return your AQUA MARINA® motor or parts to your retailer. Your retailer is not authorized to repair or replace them.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THESE LIMITED WARRANTIES. IN NO EVENT SHALL ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, EXTEND BEYOND TWO YEARS FROM THE DATE OF PURCHASE. IN NO EVENT SHALL ORPC BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Replacement parts may be ordered directly from ORPC Customer Service Dept. Be sure to provide the model and serial numbers of your motor when ordering parts. Please use the correct part numbers from the parts list. To order, call 0086-21-57402084 or FAX 0086-21-57401306.

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