

# ATLANTIC II



## INSTRUCTION MANUAL

**AQUACRAFT**  
Models

### WARNING

- Never attempt to swim after a stalled R/C boat.
- Never operate your R/C boat while standing in the water.
- Never operate your R/C boat in the presence of swimmers.
- Always use a Personal Flotation Device (PFD) when boarding and operating your retrieval craft, i.e. Jon boat or duck boat. NOTE: Because of the sharp running hardware included with this R/C boat, we do not recommend a rubber blow up raft.
- R/C boat running hardware is very sharp. Be very careful when working on and around the metal parts.
- While the motor is running, pay close attention to the propeller. Do not come in contact with the propeller at any time the engine is running or serious injury will result.
- AquaCraft products are to be used by ages 14 and over.

[aquacraftmodels.com](http://aquacraftmodels.com)

## Introduction

Thank you for purchasing the AquaCraft Atlantic II Harbor Tugboat. We want the time you spend with your new R/C boat to be fun and successful so please fully read the manual. If for any reason you think this model is not for you, return it to your place of purchase immediately. **NOTE: Your hobby dealer cannot accept a return on any model after final assembly or after your boat has been operated.**

All pictures, descriptions, and specifications found in this instruction manual are subject to change without notice. AquaCraft maintains no responsibility for inadvertent errors in this manual.

## Items Included



- Atlantic II Harbor Tugboat
- Tactic TTX490 Transmitter
- Boat Stand

## Parts Needed to Complete Your Model

- 1 - ElectriFly® 11.1V 3S 2200mAh 30C LiPo Battery (GPMP0861)
- 1 - Duratrax Onyx 150 LiPo Balancing Charger (DTXP4195)
- 6 - AA Dry Cell Batteries (DTXP4708)
- 1 - HIGHLY RECOMMENDED ElectriFly SafeCharge™ LiPo Battery Charge Bag (GPMP0751)

### RECOMMENDED OPTIONAL PARTS AND TOOLS

- ElectriFly LiPo 3S 11.1V 3200mAh 25C (GPMP0871)
- 1.5mm Hex Wrench (DTXR0288)
- 2mm Hex Wrench (DTXR0289)
- 2.3mm Hex Wrench (DTXR0290)
- 5.5mm Nut Driver (DTXR0212)
- Great Planes Cell Match (GPMM3210)
- Needle Oiler (ZONR3105)
- Medium CA Glue (GPMR6008)

## Boat Features

- Pre-painted and detailed fiberglass hull
- 4-Channel Tactic TTX490 2.4GHz 2-stick transmitter
- 4-Channel Tactic TR400 Receiver
- LiPo ready (3S) 30 Amp ESC with low battery warning system and battery cut off circuit
- LED lighting, mast, markers, cabin
- Custom wood boat stand
- One hour run times or more possible with recommended battery

## Important LiPo Performance and Care Information!

To get the most performance and safety from your LiPo battery, please read and understand the following information.

- Always follow the manufacturer's recommendation for charging and maintaining your batteries. We would, however, like to expand on this for R/C boating use.
- Never leave a charger and battery unattended while charging.
- Use only the recommended batteries and appropriate charger.
- Refer to the instructions included with your charger for proper battery charging procedure.
- For best performance and longest battery life, never charge your LiPos at a charge rate higher than 1C. (1000mAh = 1amp, 2000mAh = 2amps and so on). Remove the battery pack from the model and charge in a LiPo Sack (GPMP0751) or other safe charge container.
- We have found it best to use only 80% of the rated mAh of the battery pack per discharge (boat run). You will experience rapid depletion of battery pack performance if you continue to discharge your pack below the 80% usage target.

**NOTE: Your Atlantic II Harbor Tugboat's ESC has a stutter bump warning system that warns you of low battery voltage. This system starts its warning at 10.2V total giving you time to bring the boat back to shore before the ESC cuts off at 9.2V. This is a built-in safety system for you, your boat and your batteries. It's important to note that a 2S pack (7.2V) will not operate your boat or any battery pack (i.e. number of cells) that falls below the listed warning and cut off voltages.**

**Although this system is in place we still recommend adjusting your run times to not exceed 80% battery usage.**

**Always unplug and remove the battery from the boat after use. NEVER leave your battery pack plugged into the boat when not in use.**

- Store your battery pack/s in a LiPo Sack (GPMP0751) or other battery containment device. It is best to store them in a cool, dry place and on a fire-resistant surface. It is also a good idea to charge your batteries to either a full charge (if you feel you will be using the packs frequently) or at 11.4V for a 3S pack (or 3.8V per cell) for longer storage.

## Warranty Service

AquaCraft will warranty your Atlantic II for 90 days after the purchase from defects in materials or workmanship of original manufacture. AquaCraft, at their discretion, will repair or replace the incorrectly made part at no charge. This warranty does not cover damage caused by crashes, abuse, misuse, alterations or accidents. To return your boat for repairs you need to provide proof of purchase, your store receipt or product invoice. **IN NO EVENT SHALL THE PURCHASER BE ENTITLED TO ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT.** This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

Outside the USA and Canada, contact your local importer for warranty information.

### HOBBY SERVICES

Attn: Service Department  
3002 N. Apollo Drive, Suite 1  
Champaign, Illinois 61822

Ph: (217) 398-0007  
9:00 am - 5:00 pm  
Central Time M-F

E-mail: [hobbyservices@hobbico.com](mailto:hobbyservices@hobbico.com)

## Safety Precautions

- AquaCraft products are to be used by ages 14 and over.
- **Never ever attempt to swim after a stalled R/C boat. Do not get in the water for any reason to retrieve your boat. To aid in retrieving a stalled R/C boat, set up a fishing reel with a tennis ball tied to the end of the line. Better yet, get yourself a small Jon boat so you can row out and pick up your boat. Remember to use a PFD any time you enter your retrieval craft.**
- Do not touch the propeller anytime the motor is running. Pay close attention to items such as loose clothing, shirtsleeves, ties, scarves, long hair or anything that may become entangled in the spinning prop. If your fingers, hands, etc. come in contact with the spinning propeller, you may be severely injured.
- The speed and mass of this boat can inflict property damage and severe personal injury if a collision occurs. Never run this boat in the presence of swimmers or where the possibility of collision with people or property exists.
- Electric motors produce heat. Do not touch any part of your motor until it has cooled.
- This boat is controlled by radio signals, which are susceptible to possible interference from other possible electrical noise.
- You might be enticed to operate your boat at a very far distance. Please avoid "taking her out" too far. The radio system is capable of 1000' or more of operation but radio reception variables exist, causing possible loss of control.
- If weeds become entangled in the propeller, stop the motor and unplug the battery before attempting to remove them.

- If your boat should happen to stall, water currents will slowly carry it to shore. Keep in mind that the boat could be carried to the opposite shore. When surveying areas to run your boat, keep variables in mind such as wind direction and lake size. It is not advisable to run R/C boats on any free-flowing bodies of water such as creeks or rivers.
- Always remove the battery pack from the boat before charging.

## Specifications

### ATLANTIC II HARBOR TUGBOAT

Hull Length: 30.25" [76.8cm]  
Width: 10.5" [26.7cm]  
Height: 19.5" [49.5cm]  
Weight: 7.75lb [3.515kg] less battery  
Run Time: Up to and over 60 minutes on recommended battery

### MOTOR

Low RPM 540: 8,200 RPM at 12V DC  
Operating current: .9amps 12V DC (without loading)  
Input: 8 to 14V  
Dimension: 38 × 57 mm (1.5" × 2.25")  
Weight: 224 g (7.9 oz)

### ESC

Rated Current: 30A (35A @ 60S)  
Max Input Voltage: 13V  
Battery Connector: Deans® Ultra Plug®  
Motor Connector: Bullet Plugs  
Wire Gauge: 14G  
Warning System: 10.2V Stutter Bump  
LVC: 9V  
BEC Max Current: 2A  
Dimensions: 35 mm × 34 mm × 9 mm  
Servo Connector: Universal

## Boat Terminology

**BOW:** Front of the boat.

**STERN:** Back of the boat.

**PORT:** Left side of the boat when aboard and facing the front (bow). An easy way to remember is that port and left both contain four letters.

**STARBOARD:** Right side of the boat.

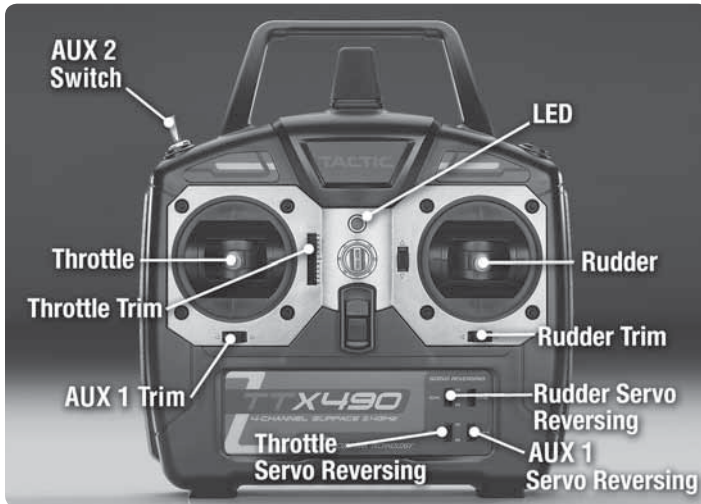
**HULL:** Body of the boat.

**DECK:** Top of the boat.

**RUDDER:** Hinged vertical plate mounted at the stern.

## Understanding Your Transmitter

To help you better understand your transmitter and its functions, here is a picture outlining the operation features, servo reversing and receiver assignments (\* not used with this product).



### SERVO REVERSING AND RECEIVER ASSIGNMENTS

- CH 1 = Steering (right stick, left and right)
- \*CH 2 = AUX 2 (momentary switch)
- CH 3 = Throttle (left stick, up and down)
- \*CH 4 = AUX 1 (left stick, left and right)

## Assembly Sequence

**IMPORTANT NOTE:** The transmitter is not water resistant and should never come in contact with water!

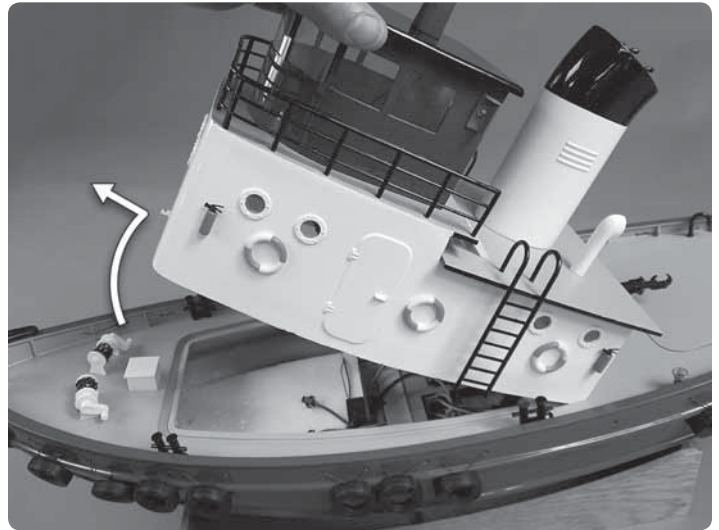


Slide off the battery door from the back of the transmitter and install 4“AA” batteries into the transmitter in the configuration molded into the battery floor. Reinstall the battery door.

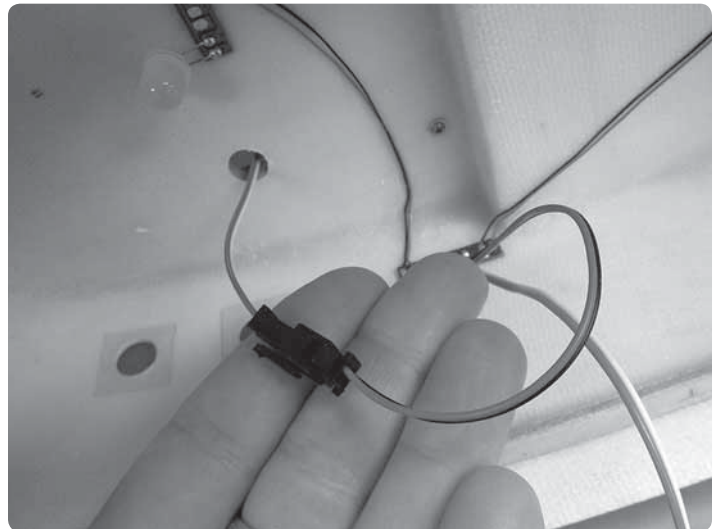
Turn the transmitter “ON” by shifting the power on switch to the up position. The battery indicator light (LED) should glow red. If the light is flashing and the transmitter beeping, the batteries might be installed incorrectly or are low and need to be replaced.



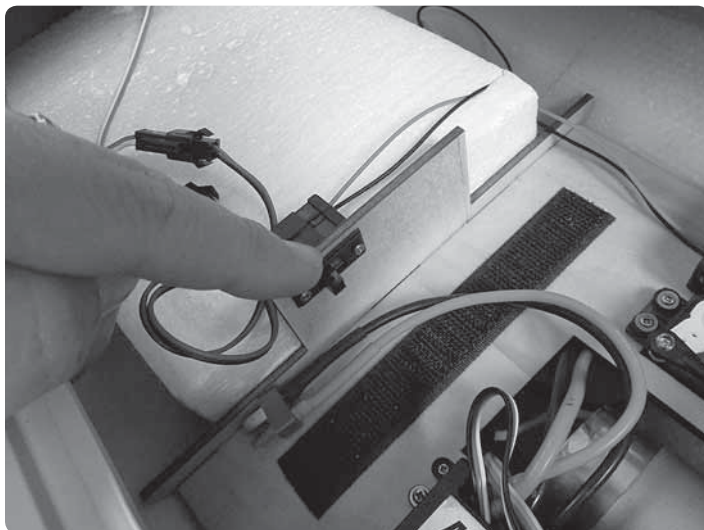
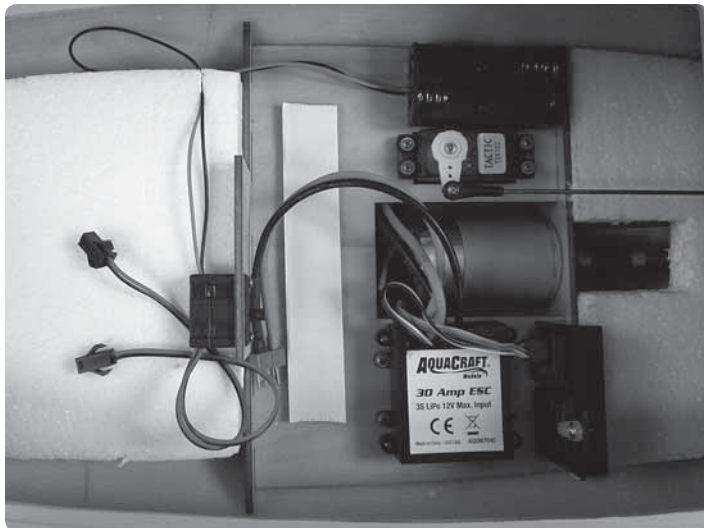
To remove the cabin slide the “tool box” forward near the front of the cabin.



Rotate the front of the cabin up and forward to remove it from the hull.



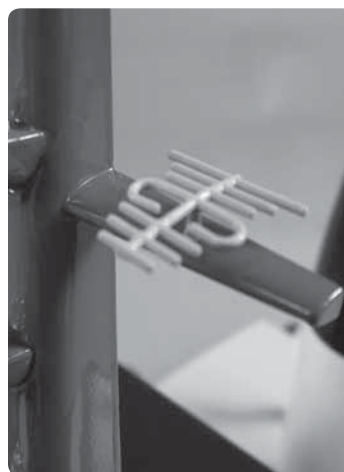
Inside the cabin you will see two shorter wire sets with plug-ins. Plug the two together. This is the connection from the lower cabin to the upper cabin lighting system.



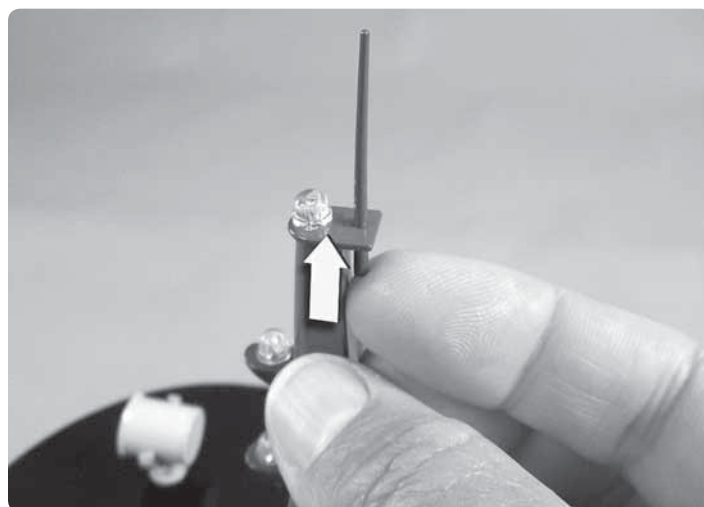
Inside the boat you will find two lighting plug-ins coming from the ON-OFF switch for the lights. You will only be plugging the cabin into one of the two plugs. Go ahead and plug this in, knowing you might want to unplug and set the cabin aside to make it easier to work on for now.



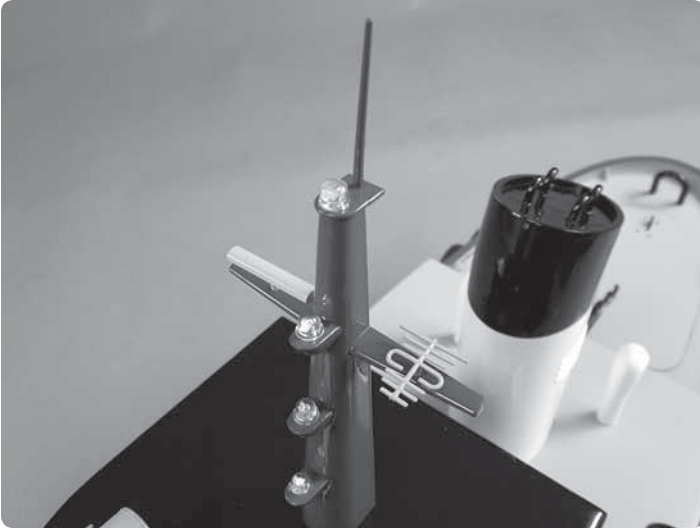
Next install the accessories. You will find them packaged in a small plastic bag attached to the light mast. Remove the bag and the accessories inside.



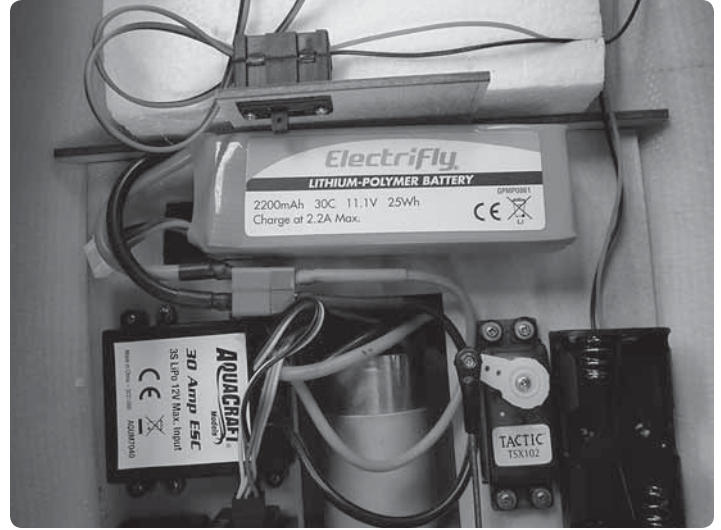
Install the RF antenna on the port side of the light mast. Carefully slide this in place. If you want, you can place a small dab of glue (medium CA glue or plastic model cement) to help hold the part in place. Install the radar antenna the same way but on the starboard side of the mast.



The center spire slides in from the bottom center of mast. You can allow this to friction fit or glue as needed.

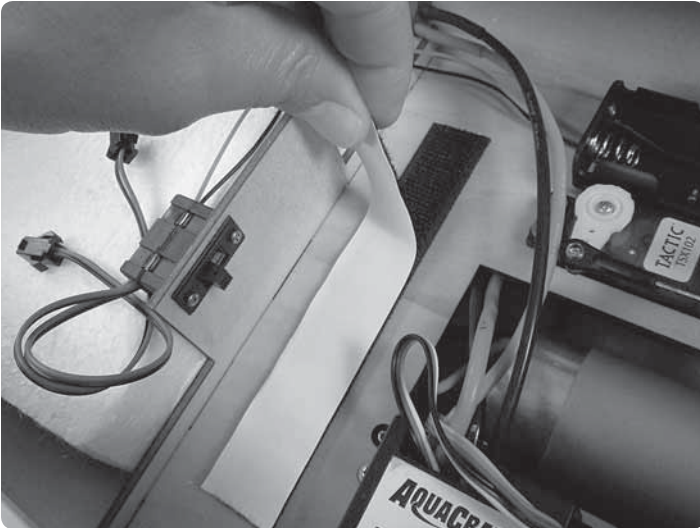


The completed assembly.

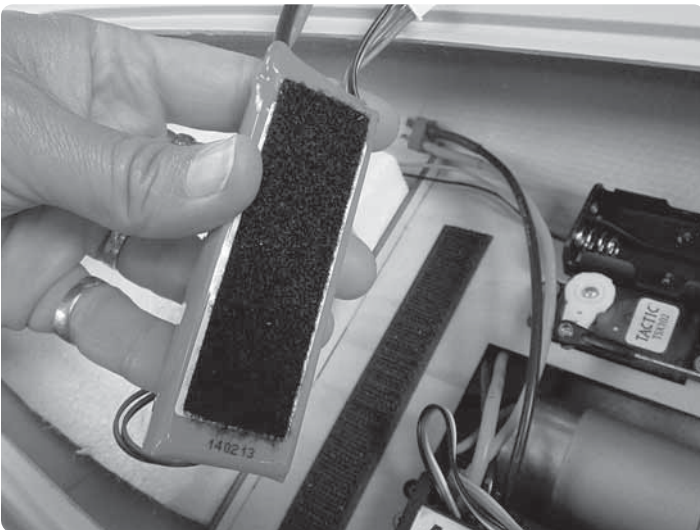


Install the battery into the boat as shown. Do not hook up the main power battery until you are ready to operate the boat!

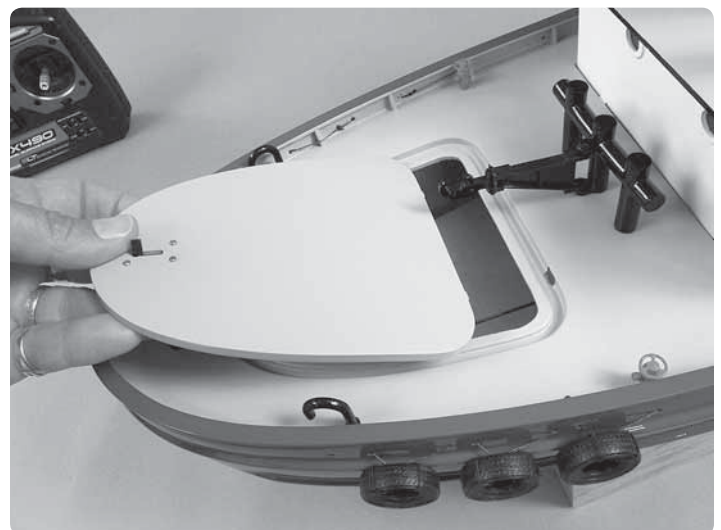
***Install the Battery in the Atlantic II***



Next install two AA batteries into the battery holder located on the radio tray.



Remove the provided "loop" strip from the battery tray and attach it to your battery pack.



If needed, one has access to the rear hatch by simply sliding the latch forward and lifting off the cover.

## Operation

With the transmitter on, plug a fully charged battery into the ESC. You will hear the motor beep three times letting you know the motor and ESC have power. Moving the left stick forward should result in counter clockwise rotation of the propeller. Moving the stick back should result in the propeller turning clockwise. If this not correct, unplug the battery and switch revising switch 3 and test again. (Default switch position is down.)

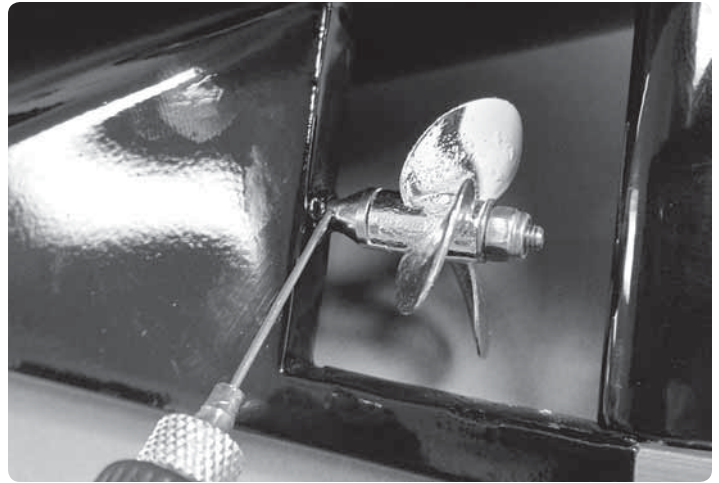
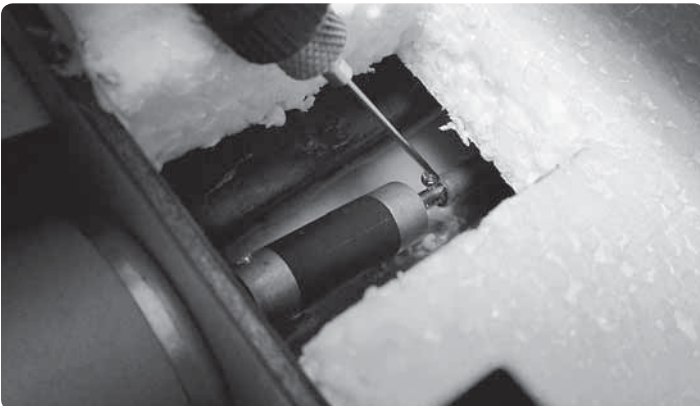
**NOTE:** The throttle trim lever allows more or less reverse power without changing the full forward operation. To do this, simply plug the battery in with the throttle trim lever in the lowest position. During power up the system will program to this trim setting. This will provide the least amount of reverse power. Moving the trim lever to the top and plugging the battery in will provide the most amount of reverse power. You can position the trim lever within the extents of the movement to custom adjust the amount of reverse you want by simply adjusting the throttle trim lever up or down and plugging in the battery.

1. Turn the power on to the transmitter and receiver (in that order).
2. Place the boat in water that is at least 12" deep and free of weeds, sticks and obstacles.
3. Advance the throttle to half speed and note if the boat has a tendency to turn right or left. Adjust the steering trim on the transmitter until the boat runs straight when the steering is at neutral.
4. After you have completed a run, unplug the boat's power battery. This safely powers down the boat. Then, turn off your transmitter.

**IMPORTANT:** If your boat takes on a large amount of water and stalls in the middle of the lake, don't worry, **your boat has foam floatation so it will not sink.** You will, however, have to retrieve the boat and remove the cabin hatch and battery. Remove any water that might have entered and allow the boat to fully dry before operating it again.

## Maintenance

It is important to remove and re-lubricate the drive system after a day of running.



Make sure the battery pack is unplugged. Use a needle oiler to place one drop of oil on each end of the motor shaft, as well as each end of the drive shaft where shown.

## **Ordering Replacement Parts**

## **Parts List**

To order replacement parts for the AquaCraft Atlantic II, use the order numbers in the replacement parts list. Replacement parts can be purchased from your local hobby shop or by mail order. If you need assistance locating a dealer to purchase parts, visit [www.aquacraftmodels.com](http://www.aquacraftmodels.com) and click on "Where to buy". If you are missing parts, contact Product Support at:

Phone: 217.398.8970

Fax: 217.398.7721

E-mail: [productsupport@hobbico.com](mailto:productsupport@hobbico.com)

AQUB7760	3-Blade Metal Prop w/Nut
AQUB7853	Drive Shaft
AQUB7854	Motor Drive Line Coupler
AQUB8801	Deck Accessory Set
AQUM7037	ESC Forward / Reverse
AQUG7012	550 MOTOR
AQUM7040	ESC
AQUB8761	Rudder Assembly

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