



AQUACRAFTTM
Models



Mini RioTM

WARNING:

- Never attempt to swim after a stalled RC boat.
- Never operate your RC boat while standing in the water.
- Never operate your RC 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 RC boat, we do not recommend a rubber blow up raft.
- RC 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.

ITEMS INCLUDED



WARRANTY

AquaCraft will warrant your Mini Rio for 90 days after the purchase from defects in materials or workmanship of original manufacture. AquaCraft, at their option, will repair or replace at no charge, the incorrectly made part. This warranty does not cover damage caused by crash, abuse, misuse, alteration or accident. To return your boat for repairs you need to provide proof of purchase. Your store receipt or product invoice will suffice. 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 and you may also have other rights, which vary from state to state. (Outside USA and Canada, contact local importer for warranty information.)

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

Phone: (217) 398-0007 9:00 am - 5:00 pm Central Time M-F
E-mail: hobbyservices@hobbico.com

STANDARD REPAIR SERVICE

After the 90-day warranty has run out you can still have your Mini Rio repaired for a service fee by the experts at AquaCraft™. To speed up the repair process, please follow these four simple steps:

Important Note: For standard repair service you must specify whether you wish the charges to be billed COD or if you wish to be notified of the charges so you can send a check.

1. Please return the ENTIRE system, boat and radio.
2. Make sure batteries are removed from the transmitter.
3. Send written instructions which include a list of all items returned, a THOROUGH explanation of the problem or problems of the service needed. Be sure to include your return address and daytime phone number. If you have access to e-mail please provide us with your e-mail address to help speed communication.
4. Send to the address above.

INTRODUCTION

Thank you for purchasing the AquaCraft™ Mini Rio! We want the time you spend with your new Mini Rio 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 local dealer immediately. **NOTE:** Your hobby dealer cannot accept a return on any model after final assembly or after your boat has been subject to operation.

SPECIFICATIONS

Mini Rio Boat Specifications:

Hull Length: 14.25" [362mm]

Overall Length: 16" [406mm]

Width: 4.75" [108mm]

Height: 2.5" [63mm]

Overall Height (less antenna): 3.25" [82mm]

Boat Features:

Water resistant access hatches

Tough ABS construction

380 water cooled motor

Micro flex wire drive system

Dual wedge rudder steering system

Transom mounted water pickup

Side rail cushioning

1/8" [3.2mm] prop shaft

Two Blade 30mm FRP propeller

Radio System:

AquaCraft 2-Channel Pistol Grip FM Transmitter

AquaCraft Water Proof ESC Receiver Combo

AquaCraft Micro Steering Servo

BOAT TERMINOLOGY

BOW: The front of the boat.

STERN: The back of the boat.

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

STARBOARD: This is the right side of the boat when aboard and facing the front (bow).

HULL: The body of the boat.

DECK: The top of the boat.

TRANSOM: The back of the boat.

KEEL: The center of the bottom of the boat.

STRAKE: Lift rail(s) located on the bottom of the boat

RUDDER: The hinged vertical plate mounted at the stern that controls steering.

STRUT: The propeller support bracket mounted on the transom of the boat.

SAFETY PRECAUTIONS

- **Never ever attempt to swim after a stalled RC boat. Do not get in the water for any reason to retrieve your boat. To aid you in retrieving a stalled RC boat, set up a fishing reel with a tennis ball tied to the end of the line. Or 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.**

- AquaCraft products are to be used by ages 14 and over.

- Do not touch the propeller anytime the motor is running. Pay equally 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 R/C transmitters, paging systems, or other electrical noise. Before turning your radio transmitter and receiver on, make sure no one else in the area is operating a radio on the same frequency (channel).

- In the event that weeds become entangled in the propeller, stop the motor before attempting to remove them.

- If your Mini Rio should happen to stall, water currents will slowly carry it to shore. The bad news is that the boat could be carried to the opposite shore. When surveying areas to run your Mini Rio, keep variables in mind such as wind direction, size of the lake, etc. 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.

- Only use the specified battery when operating the Mini Rio.

ORDERING REPLACEMENT PARTS

To order replacement parts for the AquaCraft Mini Rio use the order numbers in the replacement parts list that follows. 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.hobbico.com and click on "Where to buy". If you are missing parts, contact Hobbico Product Support at:

Phone: 217.398.8970

Fax: 217.398.7721

E-mail: productsupport@hobbico.com

AQUB6209 Cowl
AQUB6401 Deck Lids
AQUB6402 Cowl Latch
AQUB9214 Water Cooling Plate
AQUM3507 RX/ESC with On/Off Switch (A1)
AQUM3508 RX/ESC with On/Off Switch (A2)
AQUM3509 RX/ESC with On/Off Switch (A3)
AQUM3510 RX/ESC with On/Off Switch (A4)
AQUB6250 Flex Drive Cable with Drive Dog
AQUB7893 Motor Coupler
AQUB7767 30mm FRP Prop
AQUB9045 Transom Water Pick Up
AQUB8715 Rudders
AQUB8716 Rudder Control Arms
AQUB8717 Rudder Support Brackets
AQUB8718 Rudder Linkage Set
AQUB7105 Boat Stand
AQUB6323 Decal Sheet Blue
AQUB6324 Decal Sheet Red
AQUB6325 Decal Sheet Orange
AQUB6326 Decal Sheet Yellow
AQUM3500 Battery 7.2v 1100mAh
AQUG1061 380 Motor W/Connectors
AQUP9929 12V Peak Charger
AQUZ1003 Instruction Manual
AQUM7050 Steering Servo

MANUAL SPECIFICATION AND DESCRIPTION CHANGES

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.

PREPARATIONS

These are the components you will need to operate your Mini Rio:



- 8 "AA" batteries

- Small personal retrieval system. This might be as simple as a tennis ball tied to the end of a fishing reel, or a fully equipped AquaCraft Hammer™ EP RTR (AQUB10**) towing a tennis ball behind a 10 foot line, Better yet, a small Jon boat and personal floatation devise (PDF, preferred!) so you can row out and properly retrieve your boat.

Extra supplies you might want to have with you during the operation of your Mini Rio:

As with any hobby, it is a good idea to assemble a useful collection of tools and accessories to bring along when you head out to the pond. These are some items you will want to keep handy.

- Extra "AA" Batteries
- Pliers (HCAR0625)
- Hobby Knife (HCAR0109)
- Metric Allen Key Set (GPMP8020)
- GrimRacer™ Speed Grease Drive Cable Lubricant (AQUB9500)



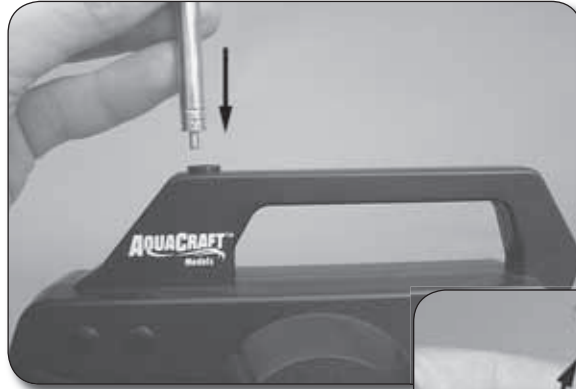
Other Useful Items to Have On Hand:

- Waders or rubber boots
- Paper towels
- Spray-on cleaner
- Sunglasses
- Sun block
- Folding table
- Lawn chairs
- First-Aid kit
- Cooler with plenty of ice and soda
- Canopy or shelter

ASSEMBLY

INSTALLING THE HAND-HELD TRANSMITTER ANTENNA

1. After removing the transmitter and transmitter antenna from the box, line up the antenna to the hole in the top of the transmitter.

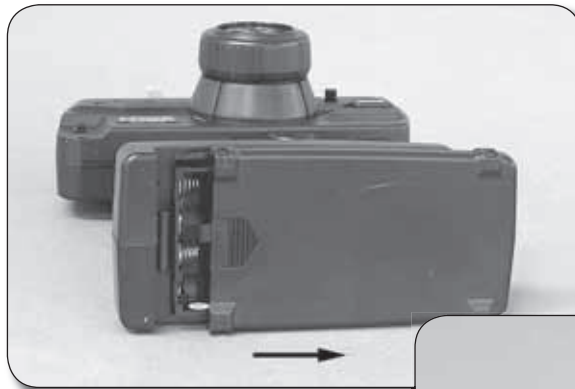


2. Slip the antenna in and lightly screw the antenna into the transmitter. Do not over tighten. Give the antenna a light tug to make sure it is properly installed.



INSTALLING THE TRANSMITTER BATTERIES

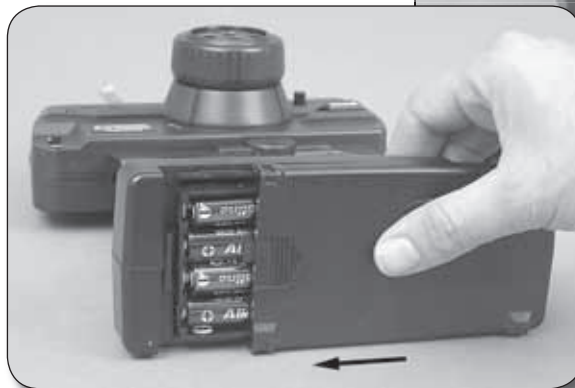
1. Slide off the battery door from the bottom of the transmitter.



2. Install 8 "AA" batteries into the transmitter in the configuration molded into the battery floor.



3. Reinstall the battery door onto the bottom of the transmitter.



4. Turn the transmitter "ON" using the switch on the transmitter's left side. The battery level indicator light (LED) should glow red. If the light is flashing, the batteries are low and need to be replaced.

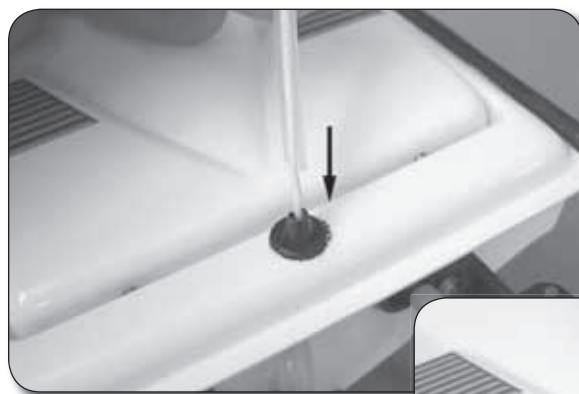


5. The completed transmitter.

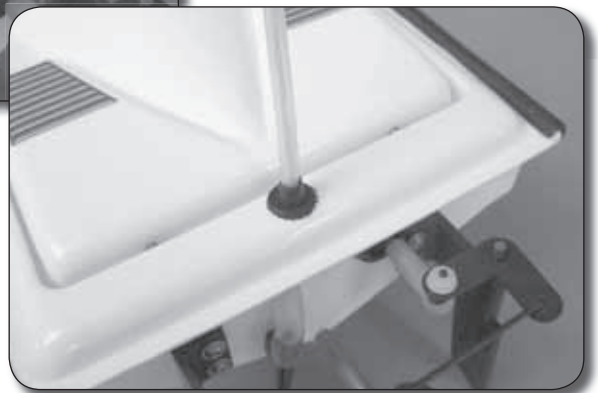


INSTALLING THE RX ANTENNA INTO THE HULL OF THE BOAT

1. The antenna tube has the receiver antenna pre-installed in the tube. Align the antenna tube with the rubber bushing.



2. Slip the tubing into the rubber bushing. To make this easier you can place a small amount of cooking oil on your finger, wipe any excess off your finger and lightly touch or coat the base of the antenna tube. Slip the antenna in place, being careful not to push the tube in too far.



ACCESSING AND CHARGING THE BATTERY PACK

Note: When charging your battery pack, be sure to follow the charging recommendations that come with your charger instructions.

1. Remove the cowl by rotating the lock near the front of the windshield.



2. Remove the cowl.



3. After removing the cowl, grab the bar on the top of the round opening covers and rotate to remove the covers.



4. Remove the battery pack from the boat via the front opening.



5. Plug the charger into an automobile's 12 volt power outlet. Once the charger is plugged in it will start to beep and the light on the front will begin to flash. Place the charger outside your automobile.



6. Join the battery and charger connectors. The connectors are designed to only connect one way to prevent the battery from being hooked up backwards.



After you attach the battery to the charger the beeping will stop and the light will stay illuminated to indicate the charger is charging properly. It's a good idea to check the battery pack every five minutes or so. If at anytime the battery becomes hot prematurely remove the battery from the charger. Allow the battery to cool completely before attempting to use it. When the charge is complete the charger will start to beep and the light will flash.

Note: It is normal for the battery to be warm after charging it. It's also a good idea to allow the battery to cool before placing it in the boat.

After charging is completed, unplug the charger from the power outlet. Disconnect the battery and charger connectors by pushing the small tab on down while gently pulling the connectors apart.

IMPORTANT PRECAUTIONS

- Do not charge the battery with the vehicle's engine running.
- Always place the battery and charger outside the vehicle when charging.
- Charge only the Mini Rio's 6-cell 7.2 volt 1100mah NiMH rechargeable battery. Do not attempt to charge other battery types, as damage may occur to the battery and charger.
- Do not allow water to foreign objects into the charger.
- Do not cover the air intake vents on the charger as this can cause the charger to over heat and become damaged.
- Do not leave the charger unattended while charging. Disconnect the battery immediately if the charger and/or battery become hot.
- Do not charge hot batteries.
- Keep out of the reach of children.

7. Reinstall the battery in the boat. You will notice the plug can only be attached one way. Pay particular attention to the polarity of the plug. Plug the battery into the electronic speed control.



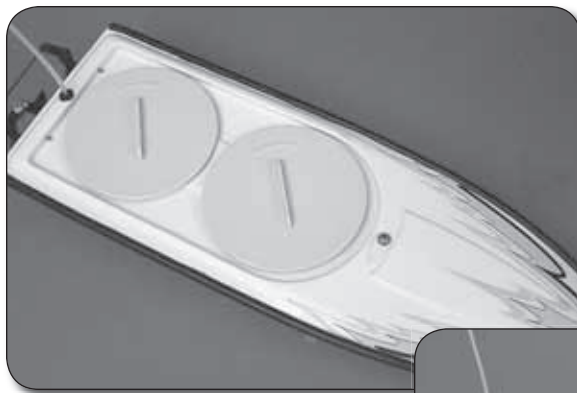
8. Tuck the battery plug up under the deck of the boat to keep the wires away from the drive components. **Make sure the battery pack and wire are NOT touching the drive components.**



9. The on/off switch for the boat is located under the back opening of your Mini Rio boat. Make sure your hand-held transmitter is "ON" before turning this switch on.



10. Re-install the covers by aligning the tabs on the bottom of the covers with the tabs in the openings. Rotate the covers 45° to secure them in place.



11. Place the cowl on the boat and turn the front lock to hold it in place. Your boat is now ready for operation.



POWER UP

It is important to follow the below sequence each time you operate your boat.

POWER UP BEFORE A RUN:

1. Turn on the transmitter. Make sure the light on the front is glowing red.
2. Plug in the 7.2V battery pack.
3. Turn on the receiver switch.
4. Install the round hatch covers.
5. Install the canopy.

POWER DOWN AFTER A RUN:

1. Remove the canopy.
2. Remove the round hatch covers.
3. Turn off the receiver switch.
4. Unplug the 7.2V battery.
5. Turn off the transmitter.
6. Use a paper towel to remove any water that might have entered the hull.

LAUNCHING AND DRIVING YOUR MINI RIO:

1. Place the boat in water that is at least 8" deep. Make sure the water is free of weeds, sticks or other floating debris.
2. Slowly advance the throttle to get the boat a safe distance from shore. Adjust the steering trim knob on your transmitter until the boat tracks straight when the steering wheel is at neutral.
3. *Enjoy driving your MINI RIO!*
4. When your boat starts to slow down, it's time to drive it back to shore. Typical run times are 6 to 9 minutes depending on the charge and condition of your battery pack.



IMPORTANT:

If your boat takes on a large amount of water and stalls in the middle of the lake, don't worry. Your Mini Rio has foam flotation so it will not sink. You will, however, have to retrieve the boat and remove the hatch covers to remove any water that might have entered the boat. If the inside of the boat is flooded, remove the water and let the boat fully dry before operating it again.

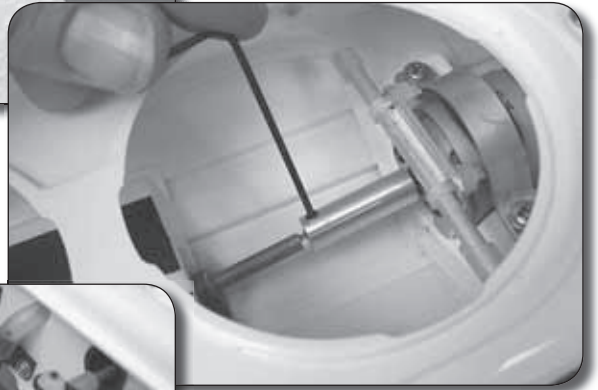
MAINTENANCE

1. It is important to remove and lubricate the drive cable after a day of running. Make sure the power to the boat is turned off and the battery pack is unplugged. To lubricate the cable you will need:

- 1.5mm Allen wrench
- GrimRacer Cable Grease
- Paper Towel



2. Using a 1.5mm Allen wrench, loosen the set screws holding the drive cable to the motor coupler. It is important to note that there are two set screws holding the cable in position.



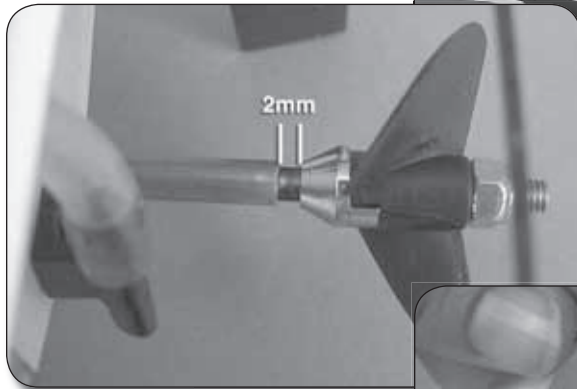
3. Slip the cable out the back of the boat. Wipe off any grease and water that might be on the cable.



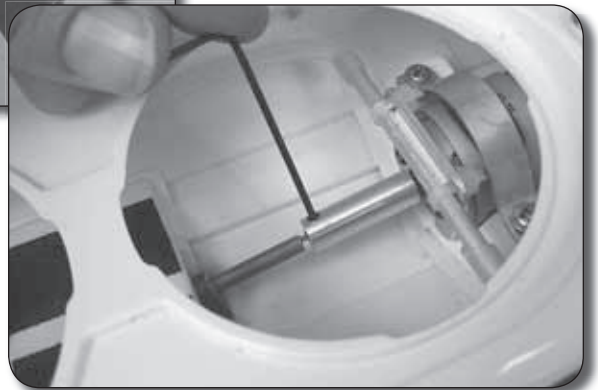
4. Using GrimRacer speed grease, apply a small amount to the cable and slide the cable back into the boat. Be careful to align the cable to the hole in the end of the motor coupler.



5. Leave about 1/16" [2mm] gap between the front of the drive dog and the back of the shaft tube.



6. Tighten the set screws to hold the cable in place. Do not over tighten the set screws. It is also a good idea to tighten one screw lightly and then the other. Go back and forth between screws to keep even tension on the drive cable.



OTHER BOATS AVAILABLE FROM AQUACRAFT

HAMMER



The AquaCraft Hammer EP requires no assembly or finishing and on-board electronics come installed—from the rudder servo and reverse-equipped electronic speed control to the water-cooled, 550-size motor. **AQUB10****

- The waterproof radio compartment features a screw-down cover that allows easy access to the on-board radio gear.
- Realistic deep vee racer looks—complete with twin cockpits—add to the excitement.
- Done carving into the current for the day? Admire the Hammer at home on its supplied display stand!

SUPERVEE 27

BRUSHLESS



Combining electric powered, ready-to-run simplicity with innovative GrimRacer parts, AquaCraft's SuperVee 27 is two offshore winners in one: Newcomers can be on the water in as little as ten minutes, and competitors can start racking up victories in FE (Fast Electric) action just as quickly. Available in six colors, the painted, hand-laid fiberglass hull holds all the ingredients for racing success. That includes a brushless B36-56 motor plus a perfectly matched 45 amp brushless 18V ESC — which, like the motor, is water-cooled. The on-board servo and linkage of the included 2-channel radio are factory-installed. And AquaCraft adds many premier accessories from their GrimRacer line: a machined aluminum surface drive strut assembly; adjustable anodized FE rudder; stainless steel FE trim plates; aluminum adjustable turn fin assembly; and innovative cowl lock system, made of durable stainless and spring steel. **AQUB17****



AQUACRAFT

Models