



MOTOR LIFEBOAT

Owner's Manual



Specifications

- Hull Length..... 30.75 in (781mm)
- Beam..... 9.4 in (238mm)
- Motor..... Water-cooled 550-size (x2)
- Speed Control..... Watercooled electronic w/reverse
- Radio System..... Pro Boat 2-stick 27MHz AM
- Drive System..... Direct drive
- Steering System..... 2-rudder

Introduction

Thank you for purchasing the Pro Boat® Heavy Weather Rescue and Patrol Boat. Please read these instructions carefully before attempting to operate your boat.

The Motor Lifeboat comes ready-to-run with the Pro Boat 27MHz AM radio system and electronic speed controller already installed. All assembly and building is done at the factory, allowing you to quickly get your boat running.

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General Guidelines

It is important that you read and follow this instruction manual before you run this exciting boat. Failure to read and understand the manual could result in personal injury, property damage or permanent damage to your boat. It is also important to run your boat responsibly. With proper care and maintenance, you will be able to proudly enjoy your Motor Lifeboat for many years to come.

When operating the boat, stay clear of people, full-scale boats, stationary objects and wildlife. It is preferable to operate the Motor Lifeboat in low-wake, low-wind conditions and in areas free of people, wildlife and objects.

Before you operate your model, make sure your frequency is clear. If someone is operating on the same frequency, both models could go out of control, possibly causing damage to the models or to others. Check all of the hardware and the propeller for damage and loose screws before and after each run.

Additional Required Items

You will need to purchase the following to get your boat on the water:

- 8 AA alkaline batteries for the radio transmitter
- 6-cell 3300mAh Ni-MH battery pack (DYN1185) (2)
- Charger for motor batteries (DYN4033)
- Medium CA
- Soldering iron w/solder
- Ballast weight (up to 35 oz)

Inspection

Carefully remove the boat, radio transmitter, battery and charger from the box. Inspect all items to make sure no damage is present. If you notice damage is present, please contact the hobby shop where you purchased your model.

Contents

- Assembled Motor Lifeboat RTR
- Pro Boat radio transmitter
- Boat stand



Getting Started

Before you start running your new Motor Lifeboat, it is absolutely necessary that you read through all of the operating instructions to prevent unnecessary damage and get the maximum enjoyment from your boat.

Charging the Motor Battery

Plug the battery charger into a standard 110/120V AC wall outlet or 12-volt DC depending on the type of charger used.

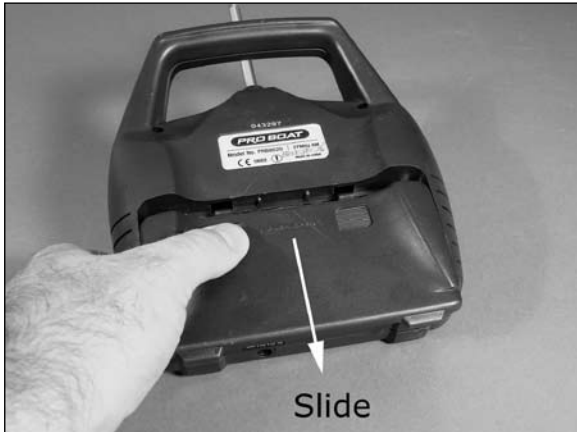
Connect a fully discharged battery to the charge plug.

Change the battery according to the instructions provided with the charger.

Do not leave the battery pack unattended while charging or serious damage or fire may occur.

Installing the Transmitter Batteries

Remove the transmitter battery cover by sliding the cover from top to bottom.



Install the battery cover by sliding it on from bottom to top.



Install eight (8) AA batteries into the transmitter. Pay close attention to the correct direction of the positive (+) and negative (-) ends as marked.



Installing the Motor Batteries

Add up to 35 oz of weight (ballast) to the hull as shown until the boat rides level in the water with the black painted part of the hull.

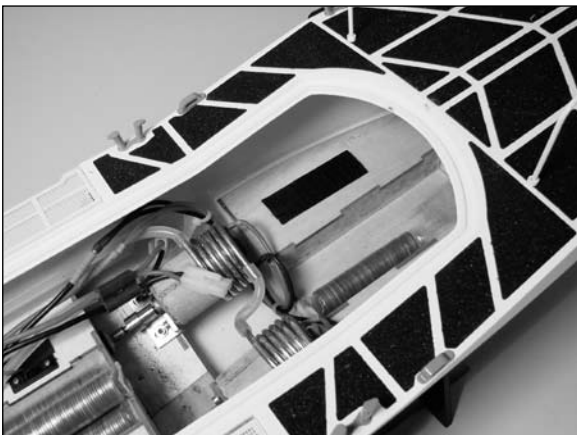


Note: We used pennies wrapped in clear plastic as ballast. A roll of pennies weigh 5.0 oz.

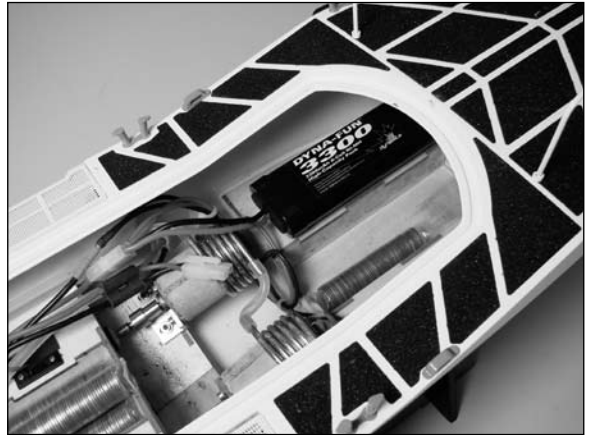
Once the batteries are charged, apply the supplied hook and loop tape to the batteries.



Attach the remaining hook and loop to the hull as shown.



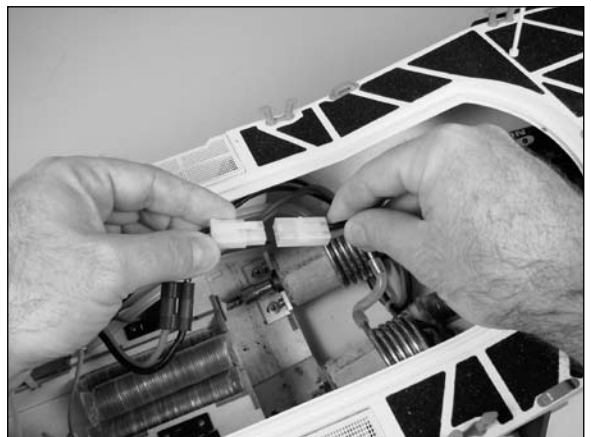
Install the battery packs into the hull as shown. Batteries are located on the left and right sides of the hull.



Confirm the receiver switch has been set to the "OFF" position at this time.



Plug the connectors from battery packs to the connectors from the ESC.



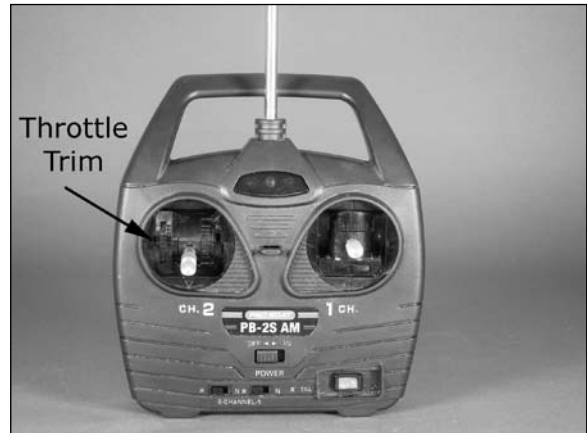
Checking the Radio System

Check to make sure the propellers are free from any objects. The first time you turn on your Motor Lifeboat the motors may start, and any objects near the propellers, or even the propellers, may become damaged.

Always turn on the transmitter first by sliding the switch on the front of the transmitter from left to right. The small red and green lights on the front of the transmitter should both light up. If not, you need to check for low or incorrectly installed batteries.



If the propellers spin, adjust the Throttle Trim lever located next to the throttle stick until the propellers stop.



Give a small amount of throttle input by moving the throttle stick toward the top of the transmitter to ensure that the motors are working.



Checking the Throttle Operation

Once the transmitter has been turned on, turn on the Motor Lifeboat by sliding the switch on the speed controller to the "On" position.



To test reverse speed operation, wait for the model to stop then move the throttle stick toward the bottom of the transmitter. Once everything is functioning correctly, you are ready to check the operation of the steering.

Checking the Radio System

Checking the Steering Operation

With your Motor Lifeboat and transmitter on, move the steering stick to the right to make the rudders move to the right to incur a right turn. Conversely, when left input is given, the rudders will move to the left.



It may be necessary to adjust the Steering Trim so the rudders are centered prior to operation. You may also need to fine-tune the steering trim to make sure the boat runs straight during operation. This can only be accomplished when operating the boat in the water and is detailed in a following section.

After you have completed checking your radio system, turn the Motor Lifeboat receiver off FIRST by sliding the switch to the "OFF" position. After the model has been turned off, turn off the transmitter. Turning off the transmitter first may allow the radio to accept stray signals and the boat may run out of control.

If you find the steering or throttle operates backwards as described, you may need to actuate the servo reversing switch.

Note: If you are transporting your Motor Lifeboat, make sure you disconnect the batteries from the speed controller and then turn your radio off until you are ready to run the boat. Once ready, simply plug the batteries into the speed controller, turn the radio on and make sure that the boat is in neutral.

Range Testing

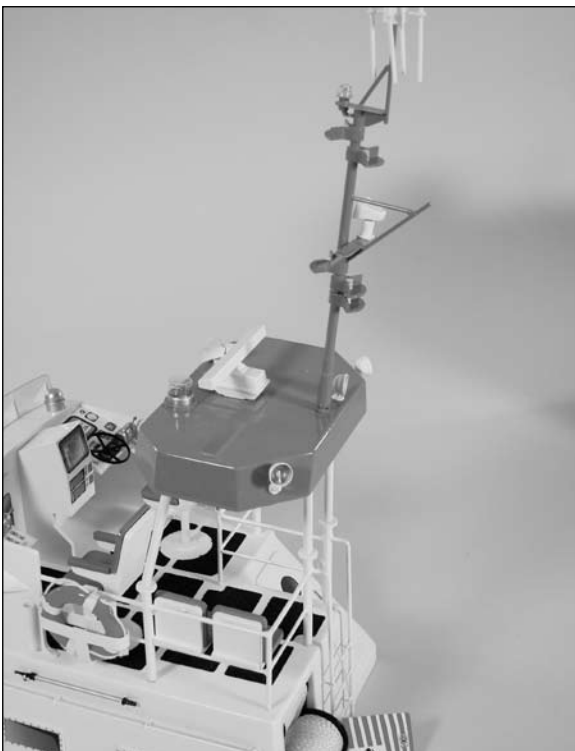
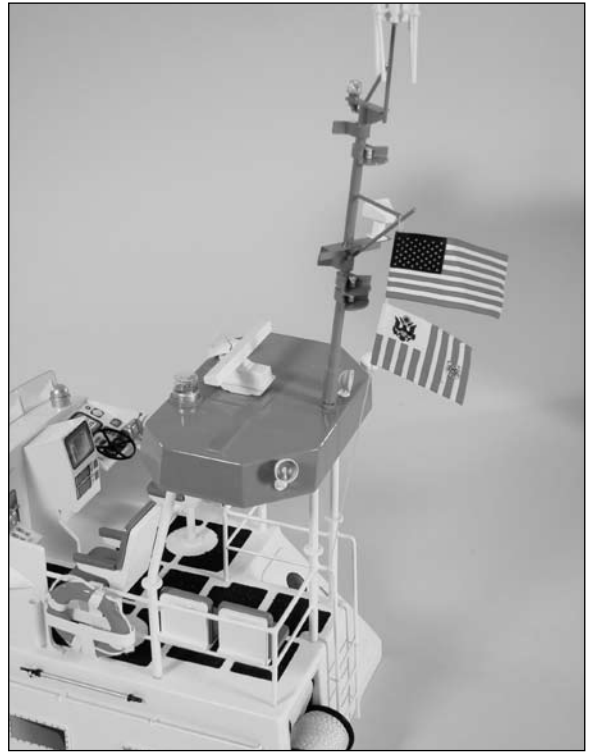
Collapse the transmitter antenna and move the rudder controls. Walk away from the boat and confirm that you have control at least 20 yards away.

Accessory Installation

Carefully plug the mast into the jack located on the top of the cabin.



The flags are on an elastic band that loops onto the mast as shown below.



The switch to turn the accessory lighting on is located on the left side of the hull near the motor. The receiver switch must be turned on to allow the light switch to operate the lights. Sit back and enjoy the glow from the scale lighting of your Motor Lifeboat.



Testing Your Boat in the Water

Make sure the radio is "ON" and the battery is plugged into the speed controller. Test the radio system for proper operation and then carefully place the boat in the water. Pilot the boat at slow speeds, staying close to the shoreline to ensure you have good control and that the boat is functioning correctly. Be certain to avoid all objects in the water at all times.

Once you feel comfortable with the control of your boat, it is safe to go further away from the shoreline and at faster speeds. When you notice the boat beginning to lose speed, bring the boat back to shore. It will be necessary to allow the electronic components to cool down and to replace or recharge the battery before heading out again.

Adjust the Steering Trim

When going forward, the model should move in a straight line. If not, adjust the steering trim so that it tracks in a straight line without having to turn the steering wheel.

Maintenance

Before and at the end of each run, make sure all screws are tight and the propellers are free from any entanglement. At the end of each run, be sure to remove any debris from the rudders and/or propellers and rinse the hull of your boat as well.

Lubricating the Drive Shaft

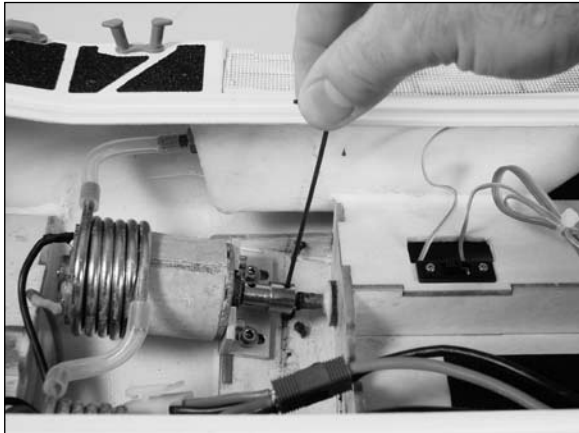
The drive shafts should be lubricated after every 3–4 hours of use and at the end of each boating season prior to storage to ensure proper operation of your boat.

Use the following steps to remove and lubricate the drive shafts.

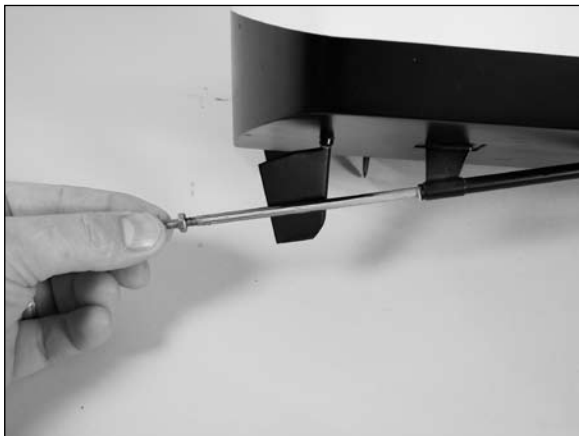
Loosen the nuts that are tightened against the propellers. The propellers are threaded onto the shafts and are simply unscrewed from the end of the drive shafts.



Use a 1.5mm hex wrench to loosen the setscrew that secured the drive shaft to the motor adapter.



Slide the drive shaft out of the stuffing box. It will pass close to the rudder, so make sure the rudder is straight when you remove the drive shaft.



Place the end of the PRB0100 Grease Gun w/Marine Grease (see your local hobby shop) against the drive shaft. Apply grease along the length of the shaft.



Slide the shaft back into the stuffing box. Use a paper towel to remove excess grease near the propeller that oozes out when inserting the shaft.

Note: Running the Motor Lifeboat RTR in salt water could cause some parts to corrode and is not recommended. If you run the boat in salt water, rinse it thoroughly in fresh water after each use and lubricate the drive system.

Replacement Parts

If you have any questions concerning the setup or running of your Motor Lifeboat, please call the Horizon Service Center toll-free at (877) 504-0233.

PRB3105	Motor
PRB3501	Hull Only
PRB3502	Hatch (Front)
PRB3503	Hatch (Rear)
PRB3504	Light System
PRB3505	Motor Mount Set
PRB3506	Light Tower
PRB3507	Rudder
PRB3508	Driveshaft
PRB3509	Rudder Pushrod Set
PRB3510	Propeller
PRB3511	Decals
PRB3512	Rail set (Front)
PRB3513	Rail Set (Rear)
PRB3514	Captain's Chair
PRB3515	Side Chair Set
PRB3516	Life Saver
PRB3517	Hull Accessory Set
PRB3518	Wind Shield Set
PRB3519	Boat Stand
PRB3607	Cooling System
PRB3623	Water-cooled ESC w/ reverse

Instructions for Disposal of WEEE by Users in the European Union

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human

health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



Warranty Information

Warranty Period

Horizon Hobby, Inc., (Horizon) warrants that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR

FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

Warranty Information

Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions

This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision.

The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

Questions, Assistance, and Repairs

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance.

For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll-free to speak to a service technician.

Warranty Information

Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. A Service Repair Request is available at www.horizonhobby.com on the "Support" tab.

If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Warranty Inspection and Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge.

Repair or replacement decisions are at the sole discretion of Horizon Hobby.

Non-Warranty Repairs

Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. Please note: non-warranty repair is only available on electronics and model engines.

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822

Please call 877-504-0233 with any questions or concerns regarding this product or warranty.

Warranty Information

Safety, Precautions, and Warnings

As the user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) that you use.

This model is controlled by a radio signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is necessary to always keep a safe distance in all directions around your model, as this margin will help to avoid collisions or injury.

- Always operate your model in an open area away from people.
- Avoid operating your model where injury or damage can occur.
- Never operate the model out in populated areas for any reason.
- Never operate your model with low transmitter batteries.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) that you use.
- Keep all chemicals, small parts and anything electrical out of the reach of children.
- Moisture causes damage to electronics. Avoid prolonged water exposure to all equipment not specifically designed and protected for this purpose.



www.ProBoatModels.com



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