



BLACK JACK 26

BRUSHLESS

Blackjack 26 Brushless EP Catamaran Boat

Owners Manual



Specifications

| | |
|----------------------|--|
| Hull Length..... | 26.75 in (679mm) |
| Beam..... | 8.375 in (213mm) |
| Motor..... | Water-cooled Hi-performance A3630-1500 Brushless Motor |
| Radio System..... | Pro Boat AM 27MHz Pistol-grip |
| Drive System..... | Direct Drive |
| Steering System..... | Steerable Drive System |
| Speed Control..... | Water-cooled 45-Amp Brushless ESC |

Introduction

Thank you for purchasing the Pro Boat™ Blackjack™ 26 Brushless EP Ready-To-Run boat. Please read these instructions carefully before attempting to operate your boat.

The Blackjack 26 Brushless EP 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, along with the radio system 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 Blackjack 26 Brushless Catamaran 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 Blackjack 26 Brushless Catamaran in low wake, low wind conditions and in areas free of people, wildlife and objects.

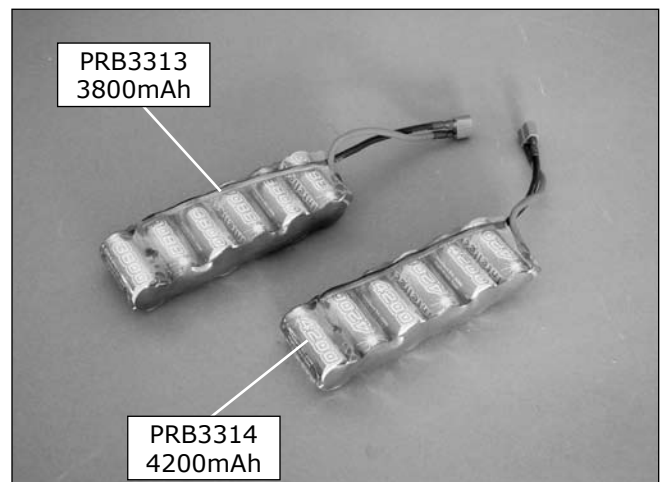
Before you operate your model, make sure that your frequency is clear. If someone is operating on the same frequency, both models could go out of control, possibly causing damage to the models or to others. Check all of the hardware, and the propeller for damage and loose screws before and after each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

If at any time while operating your model you sense any abnormal function, end your operation immediately. Do not operate your boat again until you are certain the problem has been corrected.

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
- 7.2V Ni-MH Battery Pack with Deans Connector (PRB3313 or PRB3314) (2)
- Twin Peak Dual Battery Charger (DYN4033)
- Tamiya/Deans adapter (PRB3312)



Inspection

Always stay clear of the propeller.

Carefully remove the boat and radio transmitter from the box. Inspect the boat to make sure no damage is present.

If you notice damage is present, please contact the hobby shop where you purchased it.

Contents

- Assembled Blackjack 26 Brushless EP RTR
- Pro Boat radio transmitter
- Boat stand



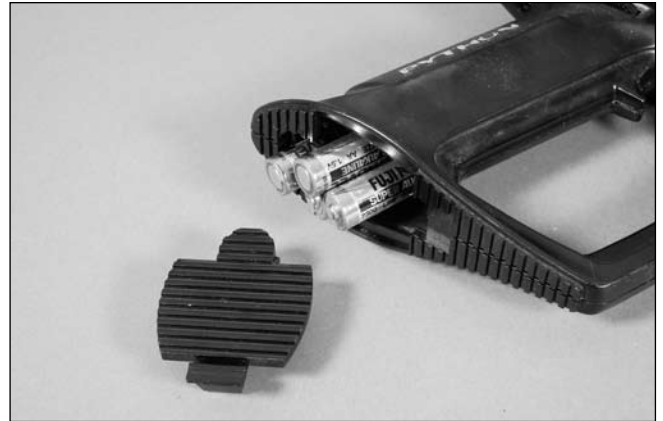
Section 1: Assembling the Boat Stand

Attach the side stand pieces by interlocking them into the end pieces as shown. Secure the interlocking pieces with medium CA or epoxy. Make certain you allow the adhesive to fully cure before placing your boat on the stand.



Section 2: Installing the Transmitter Batteries

Install 8 "AA" alkaline batteries into the transmitter, following the instructions provided for your radio system.



Section 3: Installing the 7.2V Ni-MH Battery Packs

Carefully remove the hatch from the hull.



The Pro Boat water-cooled ESC comes pre-wired with a Deans-style connector. Use a 6-cell battery pack listed below for optimum performance.

- PRB3313 7.2V 3600mAh
w/Deans Connector
- PRB3314 7.2V 4200mAh
w/Deans Connectors

You may also remove the Tamiya-style connector from conventional battery packs and purchase WSD1303 from your local hobby shop. Be sure to solder the connectors to the battery in the proper polarity.

Pro Boat offers a charge adapter (PRB3312) to allow you to charge the PRB3313 and PRB3314 batteries with Deans connectors with conventional chargers that use Tamiya-style connectors.

Follow the instructions included with your fast charger to ensure a safe charge.



Attach the hook and loop material to the batteries and the battery boxes. Install two fully charged 7.2V Ni-MH battery packs into the hull.

Section 4: Adjusting the Transmitter

Note: Refer to the radio instructions for specific information on transmitter setup.

It may be necessary to adjust the throttle trim knob to stop the propeller from turning while the throttle trigger is in the neutral position.

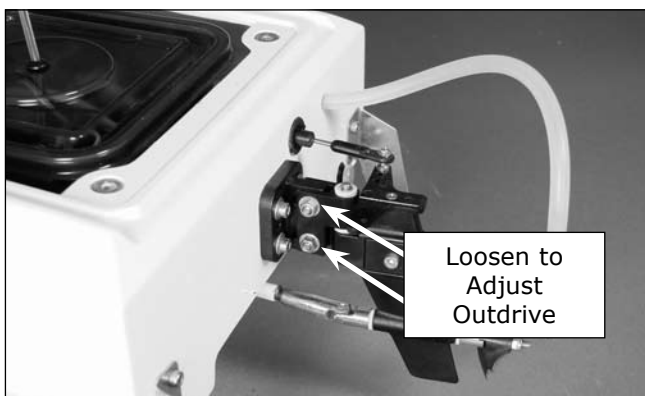


Adjust the rudder trim knob so that the rudder is centered prior to operation. You may adjust this control to make the boat run straight during operation.



Section 5: Handling Adjustment

Operate your Blackjack 26 Brushless EP in low to medium wake conditions to avoid having problems with the boat overturning. If the conditions are questionable, adjust the prop strut down a bit to reduce the likelihood of having the boat overturn. The motor mount is slotted to allow you to move the motor slightly when adjusting the outdrive. Loosen the motor mounting screws when adjusting the outdrive trim and retighten after adjustment is complete.



You may also turn the dual rate dial down to reduce rudder travel in rough water conditions.

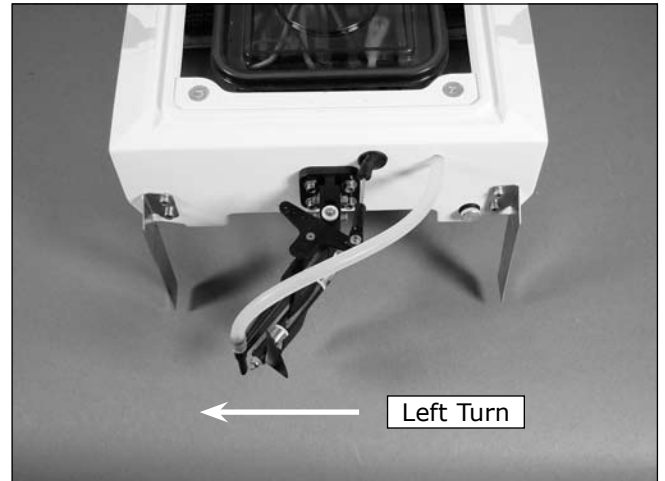


Section 6: Checking the Radio System

Ensure the antenna tube is properly placed through the hull. It may be necessary to slightly pull the antenna tube out to make certain the radio range is sufficient.



Turn the transmitter on, then turn on the receiver/ESC switch, checking for correct operation. The rudder control arm should move toward the front of the boat when right input is given. Conversely, when left input is given, the control arm should move toward the back of the boat.



The ESC will beep until you give full throttle input. The auto sensing circuitry will select full throttle position when you hold full throttle during initial set up. Release the throttle trigger. With the propeller free from any objects, give some throttle input to ensure that the motor is working. If everything appears to be functioning correctly, you are ready to run your boat!

Note: The ESC has an over-rev limiter that will not allow you to hold full throttle when the propeller is not loaded (in the water). To reset, return the throttle trigger to neutral. The auto sensing voltage cutoff will also cut off power to the motor when the ESC senses that the batteries are nearing full discharge.

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

Section 7: Testing Your Boat in the Water

Make sure the radio is "ON" and the batteries are 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.

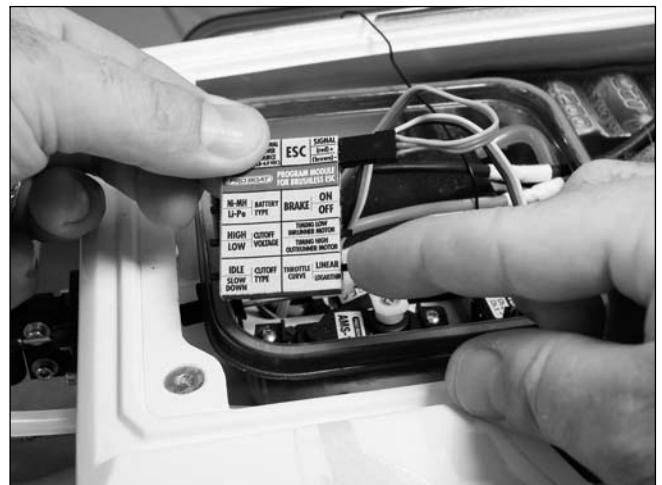
Section 8: Speed Control Programming

The ESC in your Blackjack 26 Brushless EP is pre-programmed from the factory. The programming is set for Ni-MH batteries as shipped with your Blackjack 26.

A programming module (PRB3311) is available to change the programming of your speed control. Settings include Ni-MH or LiPo batteries, cut-off voltage settings, cutoff type, brake on or off, motor timing and throttle curve.

Caution: It is imperative that you do not attempt to use LiPo batteries in the Blackjack 26 Brushless unless it has been properly programmed or serious damage to the batteries and electronics may occur.

Note: Do not turn off the transmitter first or the receiver may pick up stray signals and run out of control.



Section 9: Maintenance

Before and at the end of each run, make sure all screws are tight and the propeller is free from any entanglement.

Section 10: Lubricating the Drive Shaft

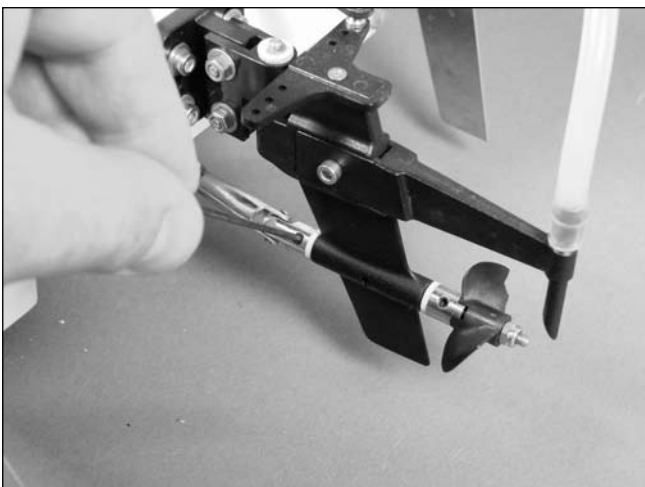
Lubricating the flexshaft is vital to the life of the drivetrain. The lubricant also acts as a water seal, keeping water from entering the hull through the stuffing box.

Lubricate the flexshaft, propeller shaft and all moving parts after every 2–3 hours of operation.

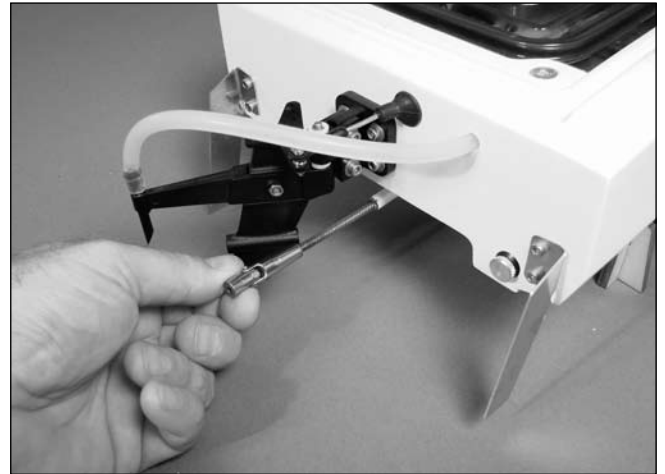
- 1. Use either two crescent wrenches, two 10mm wrenches, or a combination of either to loosen the collet nut.



- 2. Loosen the 1.5mm setscrew connecting the universal joint to the drive shaft.



- 3. Move the rudder assembly and slide the drive shaft out of the stuffing box.

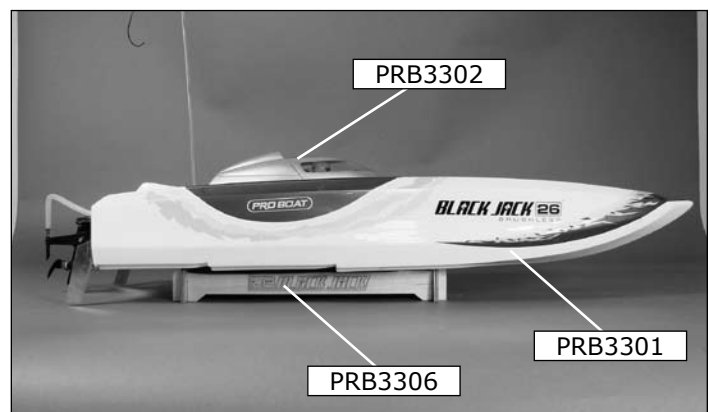
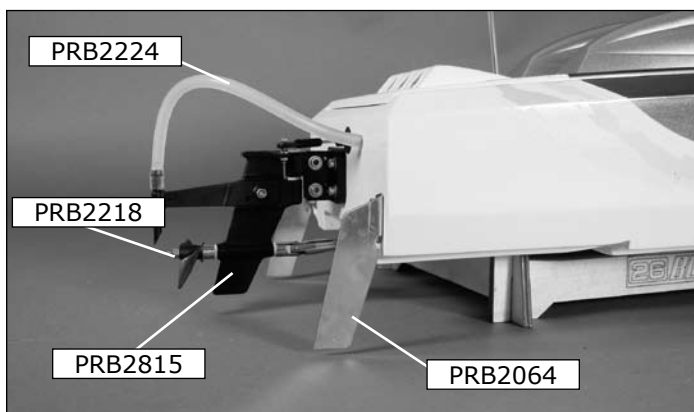
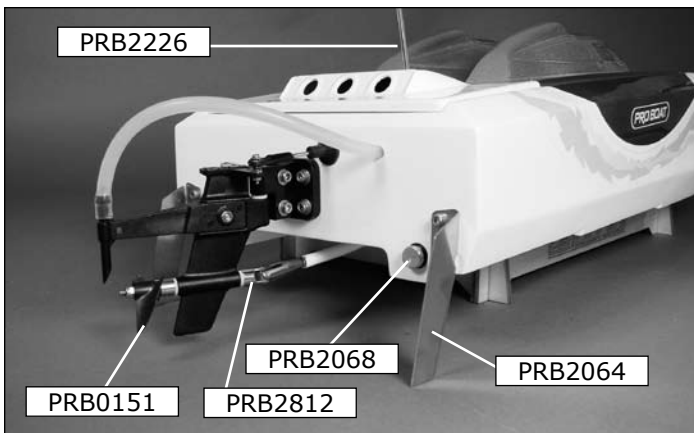


- 4. Lubricate the drive shaft with PRB0100 Water-Proof Marine Grease (see your local hobby shop). Reinstall the drive shaft in reverse order. Be sure to reinstall the nylon washer between the universal and the stuffing box.



Note: Running the Blackjack 26 Brushless EP RTR in salt water could cause some parts to corrode. If you run the boat in salt water, rinse it thoroughly in fresh water after each use and lubricate the drive system.

Section 11: Identification of Components



Section 12: 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.

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.

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.

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.



Section 13: Replacement Parts

If you have any questions concerning the setup or running of your Blackjack 26 Brushless EP boat, please call the Horizon Service Center toll-free at (877) 504-0233.

| | | | |
|---------|---------------------------------|---------|----------------------------------|
| PRB2064 | Turn Fin (2) | PRB3302 | Hatch |
| PRB2068 | Water Outlet | PRB3303 | Radio Box |
| PRB0151 | 1.6" x 2.5" Composite Propeller | PRB3304 | Radio Box Cover |
| PRB2218 | Prop Nut | PRB3305 | Decals |
| PRB2219 | Nylon Washer | PRB3306 | Boat Stand |
| PRB2223 | Push Rod Connector | PRB3307 | Motor Mount |
| PRB2224 | Silicone Tubing | PRB3308 | Cable Collet |
| PRB2226 | Antenna Tube | PRB3309 | 45-AMP Brushless ESC |
| PRB2228 | Rubber Boot | PRB3310 | A3630-1500 Brushless Motor |
| PRB2808 | Rudder Pushrod | PRB3311 | Brushless ESC Programming Module |
| PRB2810 | Stuffing Box | PRB3312 | Tamiya/Deans Charge Adapter |
| PRB2811 | Stuffing Box Liner | PRB3313 | 7.2V 3600mAh Battery w/Deans |
| PRB2812 | Flexshaft w/ U-Joint | PRB3314 | 7.2V 4200mAh Battery w/Deans |
| PRB2813 | Propeller Shaft | PRB0100 | Marine Grease |
| PRB2815 | Steerable Drive System | PRB0101 | Marine Grease Refill 5 oz |
| PRB3301 | Hull only | | |



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