





Specifications

Length	
Motor	A3630-1800Kv Water-Cooled Brushless
Receiver	. Spektrum 2.4GHz Marine (not included with PNP version)
Speed Control	
Hull Material	Fiberglass Composite
Battery 7.4V 2S 30C Li	-Po or 7.2V Sub-C with Deans Connector (2) (not included)
Radio	2-channel (not included with PNP version)

Notice

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit http://www.horizonhobby.com and click on the support tab for this product.

Meaning of Special Language

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

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. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. This 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 serious injury.

Table of Contents

Recommended Tools and Adhesives	3
Recommended Batteries	3
General Guidelines and Safety Precautions	3
Assembly	
Receiver and Speed Control Installation	5
Battery Installation	6
Binding Procedure - PNP Version Only	
Handling Adjustments	9
Maintenance	10
Limited Warranty	11
Regulatory Information	13
FCC Information (RTR Version)	13
Regulatory Information	14
Item Identification	15
Replacement Parts	15
·	

Recommended Tools and Adhesives

- Needle nose pliers
- Marine grease (PRB0100 or PRB0101)
- Paper towel
- Rubbing alcohol
- Open end wrench: 7mm, 10mm

- Phillips screwdriver: #1Hex wrench: 2.5mm, 3mm
- Clear tape (PRB0102)
- Hook and loop tape

Recommended Batteries

Batteries

We recommend the purchase of two of the following batteries (Model requires two batteries to operate):

- PRB3316 7.2V 5100mAh Ni-MH with Deans Connector
- DYN5301D 7.4V 3200mAh 30C Li-Po with Deans Connector
- DYN5302D 7.4V 4200mAh 30C Li-Po with Deans Connector
- DYN5303D 7.4V 5300mAh 30C Li-Po with Deans Connector
- DYN5304D 7.4V 6000mAh 30C Li-Po with Deans Connector

www.dynamiterc.com

NOTICE: Use of Ni-MH batteries requires the purchase of the Brushless ESC Programming Module (PRB3311) (not included) as ESC is factory set for use with Li-Po batteries.

General Guidelines and Safety Precautions

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 Mystic 29 BL 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 Mystic 29 BL in low wake, low wind conditions and in areas free of people, wildlife and objects.

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. **Always stay clear of the propeller.**

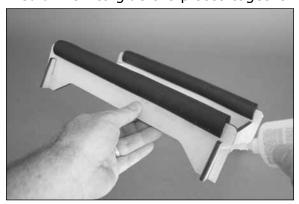
Age Recommendation: Not for Children under 14 years. This is not a toy.

Assembly

Required Equipment and Accessories

Transmitter
AA battery (4)
Motor battery (2) (charged)
Hook and loop tape

 Locate the pieces for the boat stand.
 The longer side pieces will key to the shorter end pieces. Use a small amount of Medium CA to glue the pieces together.



Note: Steps 2 through 4 relate only to the RTR version of the Mystic. Please refer to the instructions provided with your particular radio system if assembling the PNP version of this model.

2. Slide the cover from the bottom of the transmitter to access the battery holder.



3. Install the four AA batteries in the battery holder. Match the polarity of the batteries to the molded markings in the battery holder.



• 4. Slide the battery cover back on the bottom of the transmitter.



Receiver and Speed Control Installation

Required Equipment and Accessories

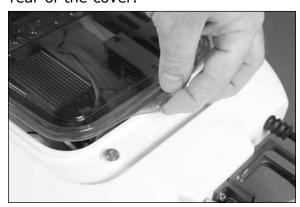
Hull assembly Receiver
Speed control Antenna tube
Hook and loop tape

Note: Steps 4 through 5 relate only to the RTR version of the Mystic. Please refer to the instructions provided with your particular radio system if assembling the PNP version of this model.

 1. Lift the hatch cover from the hull at the rear and slide it back to remove.
 The cover is held at the rear using two magnets, and at the front with a small pin.



2. Remove the radio box cover from the hull by lifting it up using the tab at the rear of the cover.



O 3. Use hook and loop tape to secure the receiver in the hull. The lead from the steering servo plugs into the STR port, and the speed control plugs into the THR port.



4. Pass the longer antenna wire through the fitting on the top of the hull. The antenna wire is then inserted into the antenna tube. Place the antenna tube in the fitting to complete the main antenna installation.



O 5. Use clear tape to secure the shorter feed antenna under the lip of the hull. Make sure the tape will not interfere with the installation of the radio box cover.



Battery Installation

Required Equipment and Accessories

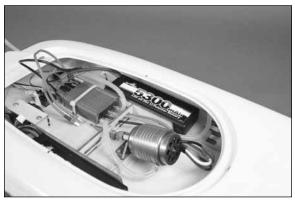
Transmitter
AA battery (4)
Motor battery (2) (charged)
Hook and loop tape

 Apply the hook and loop tape to the bottom of both batteries. Also apply the mating piece of tape in the hull where the batteries will be located.





2. Place the motor batteries in the hull. There will be one battery on the left of the hull, and one on the right side of the hull.



Note: Center the trims for both the steering and throttle on your transmitter before turning the transmitter on.

3. Move the switch on the transmitter to the ON position and confirm that the red and green LED illuminate. Turn off the transmitter.



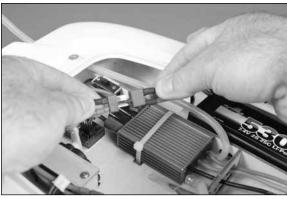
About your Speed Controller

Be sure to use a Programming Module (PRB3311) to adjust the cutoff voltage when using Ni-MH batteries to protect against over-discharging the batteries.

Note: The ESC is factory-set for use with Li-Po batteries.

The programming module offers other beneficial adjustments like exponential throttle curves and timing adjustments. Visit ProBoatModels.com and search "Programming Module" for further details.

4. Confirm that the ESC on/off switch is in the "OFF" position and connect the batteries to the battery plugs from the speed control.



Binding Procedure - PNP Version Only (Applicable to all Spektrum DSM 2.4GHz marine compatible transmitters)

Required Parts

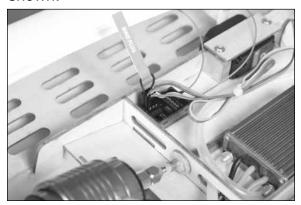
Fuselage assembly Transmitter Bind plug

Binding is connecting a transmitter to a receiver so the receiver recognizes the transmitter GUID (Globally Unique Identifier) code. Binding is necessary for proper operation.

Your model is compatible to a Spektrum[™] or JR[®] DSM2[™]/DSMX[™]-equipped full range transmitter. Spektrum radios with marine technology use the following boat icon to indicate marine use compatibility:



 1. Locate the BIND plug. The BIND plug will fit in the BIND port of the receiver as shown.



2. Follow the procedure as described in your radio manual for binding the receiver and transmitter. Check the operation of the rudder and speed control using the radio system. O 3. Remember to remove the BIND plug from the receiver BEFORE turning off the radio system. Once you have completed binding the transmitter and receiver, unplug the motor batteries and remove them from the boat.

Once you have finished programming your radio, you should re-bind the radio to ensure the fail-safe positions for the servos are correct.

Additional Information Regarding Your Radio System

Before each run, power on the transmitter and wait about five (5) seconds before moving the receiver switch to the ON position. When the receiver is switched on too quickly for the transmitter to make frequency selection, the transmitter and receiver may not connect. When there is no connection, leave the transmitter powered on, turn off the receiver switch then turn it back on to power up the receiver and connect the receiver to the transmitter.

Activating the ESC

Turn on the transmitter then turn on the ESC. The radio system is now searching for the receiver it is bound to. Once located, the LED on the receiver will illuminate and allow rudder operation.

Engaging the Motor

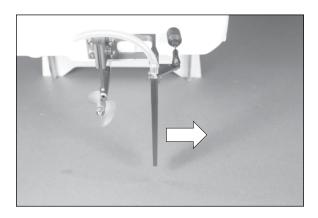
Turn the ESC off then on again. The ESC will beep until you pull the throttle trigger to full throttle and return it to the neutral position. on/off switch. The ESC will beep until you pull the throttle trigger to full throttle and return it to the neutral position. Check the operation of the propeller in relationship to the throttle trigger. When the trigger is pulled in, the propeller must rotate counterclockwise as shown. If the motor turns in the wrong direction, switch any 2 motor wires.





O 5. Check the operation of the steering in relationship to the steering wheel. When the wheel is rotated clockwise, the rudder must move right as shown. If not, follow the instructions from the radio to set the servo reversing for the steering.





O 6. Place the clear battery cover back into position. We suggest using clear tape (PRB0102) around the edge of the main hatch to keep it in place in the event of a roll over.

Handling Adjustments

Required Equipment and Accessories

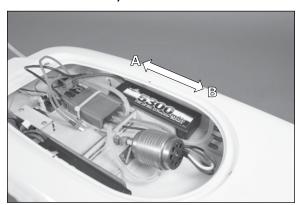
Hex wrench: 3mm

Open-end wrench: 7mm

Changing the Center of Gravity

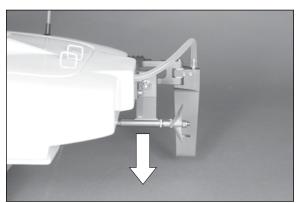
Moving the batteries to the front or back can significantly affect the boat's performance. As a starting point, the center of gravity of the boat should be 30% (9-inches or 228mm) from the rear of the boat.

- A: Move the batteries toward the rear of the boat to raise the front of the hull out of the water for increased speed.
- B: Move the batteries toward the front of the boat for faster initial acceleration, to eliminate oscillation or bouncing and increase stability.

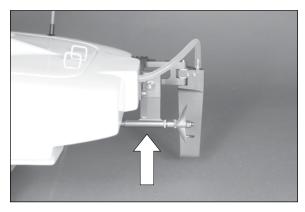


Drive Height

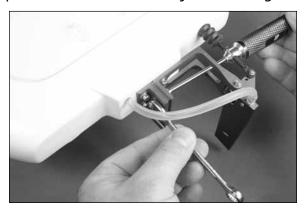
The center of the propeller shaft should be just about to the bottom of the sponsons. Lowering the drive will increase the propeller's ability to bite at take off but excessive lowering can cause the back of the boat to feel loose and decrease top end stability.



Raising the drive helps eliminate oscillation or bouncing and assist with top end stability but excessively raising the drive can reduce top speeds and cause cavitation.



Use a 3mm hex wrench and 7mm open-end wrench to loosen the bolt that attaches the output to the bracket to adjust the height.



Maintenance

Required Tools and Lubricants

Marine grease Paper towel Rubbing alcohol

Open-end wrench: 10mm (2)

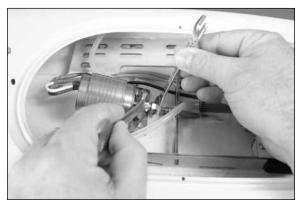
Hex wrench: 2.5mm Nut driver: 4mm

Lubricating the Flex Shaft

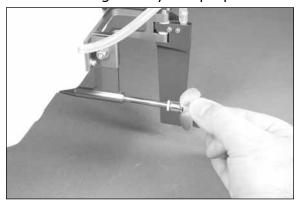
Lubricating the drive system is vital to the life of the drivetrain. The lubricant also acts as a water seal, keeping water from entering the hull through the stuffing box.

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

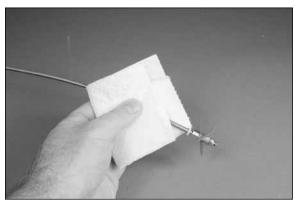
O 1. Use two 10mm open-end wrenches to loosen the ferrule that secures the flex shaft to the motor.



 2. Remove the flex shaft by pulling it out of the stuffing box by the propeller.



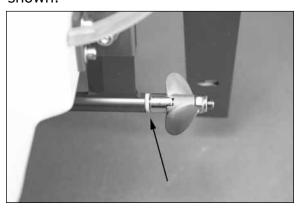
 3. Use a paper towel and rubbing alcohol to clean the flex shaft.



4. Apply a waterproof marine grease to the flex shaft. We recommend the Pro Boat marine grease available at your local hobby dealer.



5. Reverse the previous steps to reinstall the flex drive. Check that there is a slight gap of 1/32-inch (1mm) between the stuffing box and propeller mount as shown.



Limited Warranty

What this Warranty Covers

Horizon Hobby, Inc. ("Horizon") warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, or (v) Products not purchased from an authorized Horizon dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. 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 the Product, purchaser is advised to return the 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). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

Warranty Services

Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. 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 Product Support representative. You may also find information on our website at www.horizonhobby. com.

Inspection or Services

If this Product needs to be inspected or serviced, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. 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. An Online Service Request is available at http://www.horizonhobby.com under the Support tab. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your

original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Notice: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service

Should your service not be covered by warranty service 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 service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www. horizonhobby.com/Service/Request/.

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 Online Repair Request visit: www.horizonhobby.com/repairs
America	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 productsupport@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Technischer Service	Hamburger Str. 10 25335 Elmshorn Germany	+49 4121 46199 66 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com

Customer Service Information

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States	Sales	4105 Fieldstone Rd Champaign, Illinois 61822 USA	(800) 338-4639 sales@horizonhobby.com
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS United Kingdom	+44 (0) 1279 641 097 sales@horizonhobby.co.uk
Germany	Horizon Hobby GmbH	Hamburger Str. 10 25335 Elmshorn Germany	+49 4121 46199 60 service@horizonhobby.de
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 infofrance@horizonhobby.com

Register your new boat at www.ProBoatModels.com

Regulatory Information

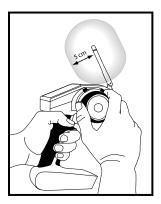
FCC Information (RTR Version)

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

Antenna Separation Distance (RTR Version)

When operating your transmitter, please be sure to maintain a separation distance of at least 5 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

The illustrations below show the approximate 5 cm RF exposure area and typical hand placement when operating your transmitter.





Compliance Information for the European Union

AT	BG	CZ	CY	DE
DK	ES	FI	FR	GR
HU	IE	IT	LT	LU
LV	MT	NL	PL	PT
RO	SE	SI	SK	UK

PRB4075S

Declaration of Conformity (in accordance with ISO/IEC 17050-1)

No. HH2011052901



Product(s): Mystic Catamaran 29 BL RTR

Item Number(s): PRB4075S

Equipment class:

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC:

EN 300-328 V1.7.1 EN 301 489-1 V1.7.1: 2006 EN 301 489-17 V1.3.2: 2008 EN 60950-1:2006+A11

Signed for and on behalf of: Horizon Hobby, Inc. Champaign, IL USA May 29, 2011

DE a Hall

Steven A. Hall Vice President

International Operations and Risk Management

Horizon Hobby, Inc.

Declaration of Conformity (in accordance with ISO/IEC 17050-1)

No. HH2011052902



Product(s): Mystic Catamaran 29 BL PNP

Item Number(s): PRB4075

Equipment class: 1

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC:

EN 301 489-1 V1.7.1: 2006 EN 301 489-3 V1.4.1: 2008

Signed for and on behalf of: Horizon Hobby, Inc. Champaign, IL USA May 29, 2011

Steven A. Hall Vice President

International Operations and Risk Management Horizon Hobby, Inc.

E a 7tall

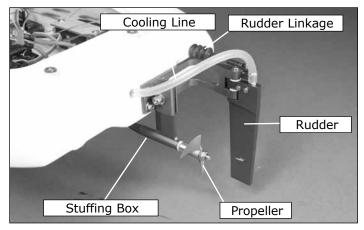
Instructions for Disposal of WEEE by Users in the European Union

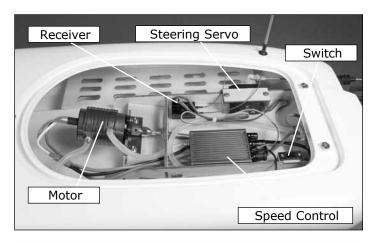


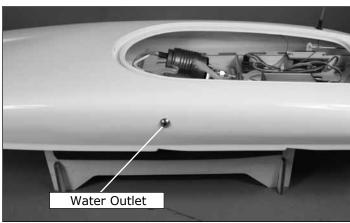
This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment 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.

Item Identification

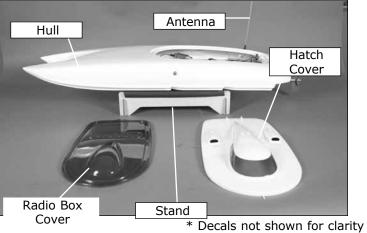






PRB3307

Motor Mount



Replacement Parts

Go to ProBoatModels.com to see photos of the replacement parts listed under Mystic 29 BL. If you have any questions concerning the setup or running of your model, please see pages 12 to contact the appropriate Horizon service center.

PRB4076 PRB4077 PRB4103 PRB4104 PRB4105 PRB4078 PRB4107 PRB4108 PRB4109 PRB4110 PRB4111	Hull and Canopy Canopy Radio Box Cover Boat Stand Prop Strut Rudder with Strut Flexshaft Drive Dog Prop Nut Stuffing Box Rudder Pushrod Set	PRB3308 PRB4018 PRB4017 PRB3311 PRB3312 PRB3315 PRB0100 PRB0101 PRB0102 PRB2239 PRB4079	Cable Collet 60-AMP Brushless ESC A3630-1800 Brushless Motor Brushless ESC Programming Module Tamiya/Deans Charge Adapter Antenna Mount Marine Grease Marine Grease Refill 5 oz Clear Flex Tape Drain Plug Decal
PRB2068	Water Outlet		
PRB4019	1.6" x 2.5" Stainless Steel Propeller	RTR Items (Only
PRB2288	Nylon Washer	PRB8060	Pistol-Grip 2.4GHz
PRB2223	Push Rod Connector		Transmitter Only
PRB2224	Silicone Tubing	PRB8061	MS113DS Digital Servo
PRB4012	Antenna Tube	SPMMR200	MR200 Marine 2.4GHz 2-Channel
PRB2073	Rubber Boot		Sport Receiver





Mystic is a trademark of mystic Powerboats Inc. and is used with permission by Horizon Hobby, Inc.

The Spektrum trademark is used with permission of Bachmann Industries, Inc.

Pro Boat, DSM2 and DSMX are trademarks or registered trademarks of Horizon Hobby, Inc.

JR is a trademark of Horizon Hobby, Inc., registered in the U.S.

US 7,391,320. Other patents pending.

© 2011 Horizon Hobby, Inc. horizonhobby.com www.proboatmodels.com

Printed 04/2011 30747