

PRO BOAT

HYPERSPORT

HyperSport™ 48 Gas-Powered Deep-V Owners Manual



Specifications

Total length	51.5 in (1308mm)
Hull length	48 in (1219mm)
Beam.....	13.75 in (350mm)
Engine	Zenoah G26 Marine
Radio System.....	Spektrum DX3S marine
Weight	11.8 lb (5.35 kg)
Propeller	2.74 in x 4.2 in Polished Aluminum

www.ProBoatModels.com

The Spektrum trademark is used with permission
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Introduction

Congratulations on the purchase of your Pro Boat® HyperSport™ 48 Deep-V. You are just minutes from one of the most thrilling experiences the radio control hobby has to offer. The Pro Boat HyperSport 48 is a professionally built, ready-to-run Deep-V fiberglass composite model. Powered by the potent Zenoah™ G26M engine, you will be able to race across the water at speeds in excess of 35 mph!

Read this owners manual thoroughly. You also need to read the included Zenoah G26 engine manual, along with the Spektrum DX3S radio system manual.

Carefully unpack your HyperSport 48 and examine the boat and its contents. The box should contain the HyperSport 48 RTR with installed radio, a boat stand, and the Spektrum DX3S radio transmitter. If you are missing any of these items or notice any damage, immediately contact the place of purchase.

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Inspection

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.

General Guidelines

It is important that you read and follow this instruction manual, along with the radio system manual and the engine 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 HyperSport 48 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 HyperSport 48 in low wake, low wind conditions and in areas free of people, wildlife and objects.

Confirm that all batteries are new and fully charged prior to each run and that the failsafe feature has been set properly in the event of signal loss (see Spektrum radio manual for details).

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.**

Contents

- Assembled HyperSport™ 48 RTR
- Spektrum DX3S transmitter
- Boat stand



Additional Required Items

Although the HyperSport™ 48 comes fully assembled and ready for action, you will need a few additional items in order to run your boat. You will need the following:

Evolution Synthetic 2-Cycle Oil, quart (EVOX1001Q)	CA or epoxy glue
Flex Shaft Lubrication (PRB0100)	Fuel container
Fuel Pump (HAN155)	Gasoline (+87 Octane), ethanol-free
8 AA alkaline batteries (4 for the transmitter and 4 for the receiver)	

Suggested Field Equipment and Supplies

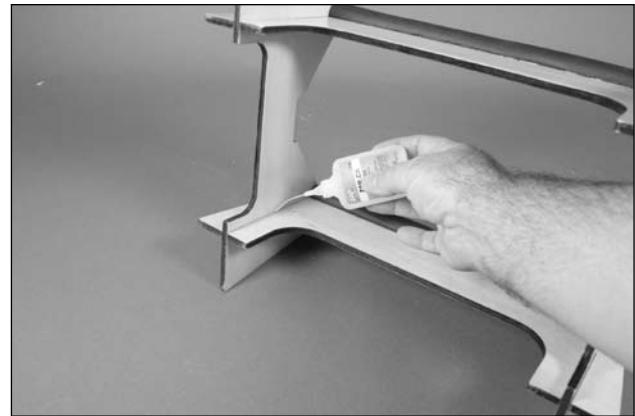
In addition to the items needed to run the HyperSport 48, we recommend that you carry the following in your field box:

Engine Tuning Screwdriver (DYN2775)
Extra Propellers (PRB2369)
#1 Phillips screwdriver
8mm wrench
Screw-locking compound

Clean towels
Hex wrench: 2mm, 2.5mm, 4mm
16mm wrench (2)
Wax

Section 1: Building the Boat Stand

- 1. There are 4 plywood boat stand pieces. The 2 short plywood pieces are the ends of the boat stand.
- 2. Secure the 2 long plywood pieces of the interlocking boat stand to one end of the short plywood pieces. Repeat with the remaining short plywood pieces.
- 3. Secure the stand together where each piece is joined with epoxy or CA glue (not included).



Section 2: Removing the Canopy

- Unscrew the knurled hatch-mounting screw from the rear of the hatch. Lift the hatch from the rear and pull to the rear.



Section 3: Installing the Radio System Batteries

Receiver Batteries

- 1. Use a 2.5mm hex wrench to remove the eight 2.5mm hex head screws that secure the radio box cover.
- 2. Remove the battery holder and install 4 AA alkaline batteries in the polarity shown on the battery box.

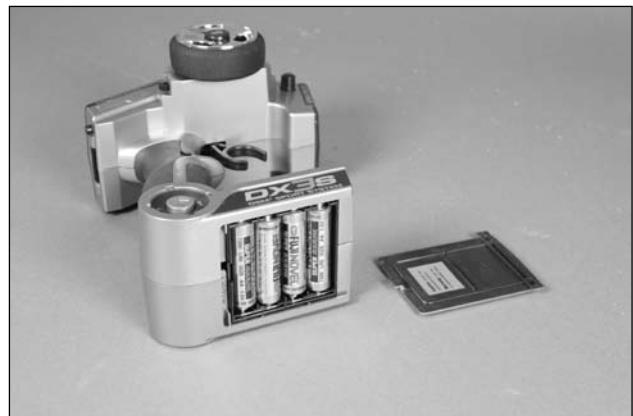
Note: You may consider upgrading the receiver battery to a rechargeable battery pack. We recommend a 6-volt 1400mAh 3+2 hump rechargeable battery pack or equivalent (DYN1445). See your local Pro Boat dealer.

- 3. Wrap the battery pack in foam and reinstall the radio box cover.



Transmitter Batteries

- 1. Remove the transmitter from the box.
- 2. Remove the battery cover on the bottom of the transmitter.
- 3. Insert 4 AA alkaline batteries into the battery holder.
Note the proper polarity of the batteries.
- 4. Turn on the transmitter and confirm that the LCD illuminates, indicating proper installation of fully charged batteries.
- 5. Turn on the receiver switch and move the controls. Confirm that all controls operate in the proper direction and are controlled by the proper transmitter input.
- 6. Turn the transmitter and the receiver switch off. To keep the boat from receiving stray signals, the transmitter should be turned on first, followed by the receiver. Likewise, the receiver should be turned off first, then the transmitter.



Section 4: Installing the Wing

- 1. Install the wing in the direction shown.
- 2. Use two 10mm nuts to secure the wing to the hull.

Note: The wing is not intended to be a handle.



Section 5: Propeller Balancing

For optimum performance, propeller balancing can add several mph to top speed and reduce vibration. There are several different propeller balancing tools available. Read the instructions that accompany the propeller balancing tool as removing material from the correct part of the propeller is crucial. Contact a local hobby retail store for assistance.



Section 6: Fueling the Tank

Use only Zenoah or Evolution (EVOX1001Q) 2-Cycle Synthetic Oil and premium gasoline mixed 32:1 to power the HyperSport 48. Fill the tank completely and secure the fuel cap. Keep fuel in a moisture-free environment, as stale fuel will cause the Zenoah G26M engine to lose performance.

Section 7: Range Checking the Spektrum DX3S Radio System

Before the first run of the HyperSport 48, you should check the radio for proper operation and to ensure proper control movement of the rudder and throttle. Also ensure that the antenna on the boat is extended properly and that all batteries are in working condition. The shorter receiver antenna may be left inside the radio box. Confirm that it does not interfere with any linkages.

- 1. With the radio system turned on (transmitter and receiver) and with the engine off, walk off 40 to 50 paces from the HyperSport 48.
- 2. Have an assistant remain with the boat to check for proper control movement of the rudder from your transmitter input.

- 3. If everything appears to be operating correctly, start the engine. Place the boat in the water and run it (at about 1/3 throttle) close to the shoreline. If the radio system is operating properly, you can begin to run the boat faster and further away from the shoreline.

Note: It is a good idea to range check prior to operating your boat after any repair, installation of new batteries, or at the beginning of each boating session.

Radio Failsafe

The Spektrum DX3S radio system has a built-in failsafe that returns the throttle to neutral in the event of signal loss. See the radio's instruction manual for instructions on how to set the failsafe position.

Section 8: Starting the Engine

Fill the tank with 2-cycle fuel and firmly tighten the fuel cap.

Note: The Zenoah G26M carburetor is factory adjusted to deliver optimum performance. See the Zenoah Engine manual for fine-tuning adjustments and other helpful information to make your RC boating experience trouble-free.



Priming the Engine

Press the priming bulb several times until it becomes filled with fuel. This is not necessary if the engine has recently been run.

Section 8: Starting the Engine

Choking the Engine

Close the choke by rotating the small yellow tubing extension. This is not necessary if the engine has recently been operated.



Pull-starting the Engine

With an assistant holding the boat to the boat stand and bracing the engine with one hand, pull the starting cord briskly several times. Once the engine fires (begins to start), partially open the choke. Prolonged choking will flood the engine with fuel until the engine warms up. See Section 12: Troubleshooting Guide to correct the flooding condition. It may be necessary to trim the throttle open slightly during initial starting. Once the engine is warmed up (10-20 seconds) open the choke completely.

Note: Do not allow the boat to run out of the water for an extended period of time or engine overheating will occur.



Section 9: Stopping the Engine

Idle the boat near shore and press the kill switch located on the hull as shown.



Section 10: Handling Adjustments

Propeller Trim Angle

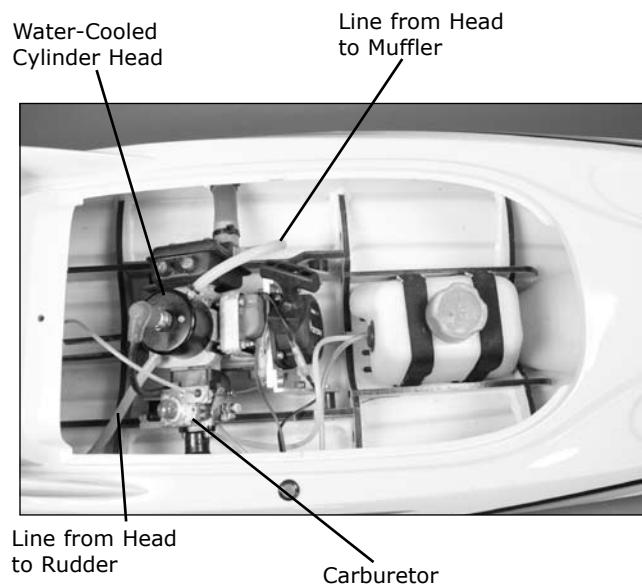
You may adjust the propeller strut to add up or down trim to the propeller by loosening the propeller strut bolt and sliding the propeller strut up to increase top-end speed (but steering response will decrease and cavitation may occur if excessively adjusted). Lowering the trim angle will increase handling performance (but may cause the boat to oversteer and decrease speed).



Section 11: Cooling System

Water-Cooled Cylinder Head and Muffler Cooling

The exhaust system is cooled after the cylinder head. See photo for proper cooling line routing. Do not alter the cooling line routing method.



Section 12: Troubleshooting Guide

Problem	Possible Solution
Engine will not start	Improper needle setting: see Zenoah Engine Manual; baseline settings are 2 turns out for high-speed, 1 turn out for low-speed Out of fuel: fill fuel tank Improper fuel: use fresh Gasoline & Zenoah or Evolution 2-Cycle Oil (mixed 32 parts gas to 1 part oil) Bad Spark plug: replace Flooded engine: remove spark plug, invert boat and operate the pull-starter to remove fuel
Engine starts, then dies	Fuel line blocked or broken: connect or replace fuel line Reset needles to baseline setting: see Zenoah instructions
Engine starts and runs for several minutes, then dies	Bad fuel: replace Improper needle settings: see Zenoah Engine Manual Overheated engine: check for clogged or damaged cooling system Debris in carburetor or filter clunk; disassemble and clean

Section 13: Hull Care

The hull of the HyperSport™ 48 is finished using the highest quality paints and the most advanced painting methods available. The base coat/clear coat technique delivers an amazing shine that is as durable as it is beautiful. To keep your HyperSport 48 looking new, you should apply a wax coating as used on automotive finishes to prevent oxidation and to further protect against damage caused by fuel and other harmful chemicals.

Section 14: Maintenance

The Pro Boat HyperSport 48 should provide many hours of exciting high-speed racing fun with just minor maintenance. Preventative maintenance is very important. Taking the time to ensure that all the setscrews and bolts are tight before each operation of the boat will prevent many problems.

Before operating the HyperSport 48

Check that all screws and hardware are securely in place. This is very important, as the muffler screws may occasionally vibrate loose during the initial runs.

Check the propeller for damage in the form of chipping or cracking. If you find any damage, replace the propeller, as the damage will effect the performance of the boat and could also cause safety concerns.

When refueling, always wipe away any excess fuel that may have spilled into or on the boat.

After operating the HyperSport 48

Drain all the fuel from the fuel system. Wipe off any exhaust residue from the boat. If you operate the HyperSport 48 in salt water, thoroughly rinse the deck, hull, and all the metal hardware with fresh water, then dry them with a clean towel. Flush the cooling system with fresh water. After cleaning, coat all metal parts with a silicone spray lubricant. This will help to prevent corrosion.

Ensure that the radio box and equipment inside are dry.

Any damage caused by saltwater corrosion or fuel damage is not covered under warranty.

Section 15: HyperSport 48 Replacement Parts

In the event that you need to purchase replacement parts for your engine or the HyperSport 48, please see your local hobby store. You can also purchase them from Horizon Hobby by calling 1-800-338-4639 or shop online @ www.horizonhobby.com

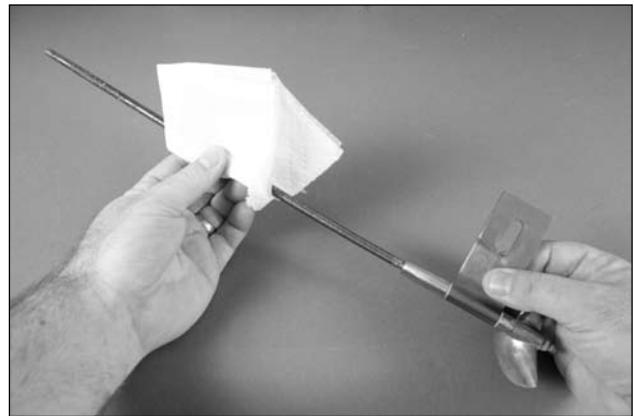
Stock #	Description	Stock #	Description
PRB2663	Throttle Cable	PRB2367	Prop shaft strut
PRB2668	Canopy Mounting Nut	PRB2368	Prop bracket
PRB2669	Pushrod Bellow	PRB2369	Drive Dog
PRB2680	Ball Linkage Set	PRB2370	Propeller (Aluminum)
PRB2692	Throttle Cable Mount	PRB2371	Rudder Strut
PRB2674	Propeller Nut	PRB2372	Rubber Boot (2)
PRB2239	Drain Plug	PRB2373	Rudder Pushrod
PRB2355	Vibration Dampener (4)	PRB2374	Rudder Bracket
PRB2356	Stuffing Box	PRB2375	Rudder Arm
PRB2357	Flex Shaft Liner	PRB2376	Rudder Shaft
PRB2358	Servo Tray	PRB2377	Rudder
PRB2359	Radio Box Cover	PRB2378	Muffler
PRB2360	Cable Collet	PRB2379	Prop. Shaft
PRB2361	Fuel Tank	PRB2380	Rudder Servo Horn (Aluminum)
PRB2362	Kill Switch	PRB2381	Screw Set
PRB2363	Tank Straps	PRB2382	Motor Mount
PRB2364	Flex shaft	PRB2383	Silicone Exhaust Tube
PRB2365	Exhaust Port		On/Off Switch Mount

Section 16: Flex Shaft Lubrication

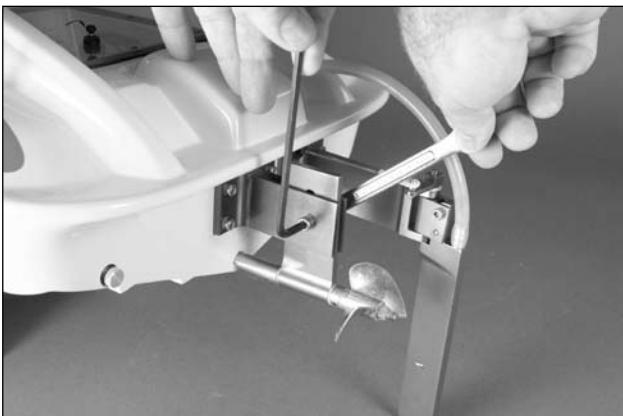
- 1. Use two 16mm wrenches to loosen the flex shaft collet.



- 4. Clean all residue off of the flex shaft with a de-greasing cleaner and wipe dry.



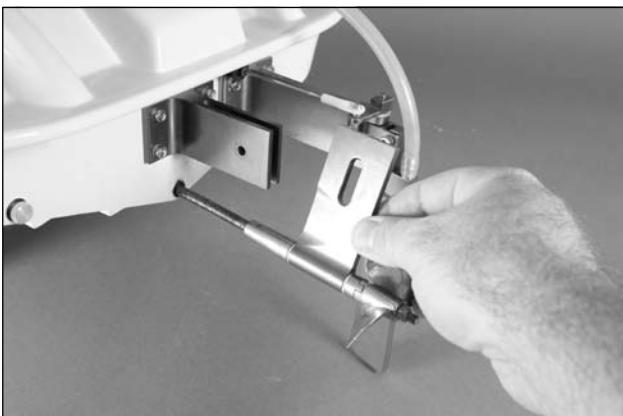
- 2. Remove the propeller strut nut and bolt using a 4mm hex wrench and 8mm box or open end wrench.



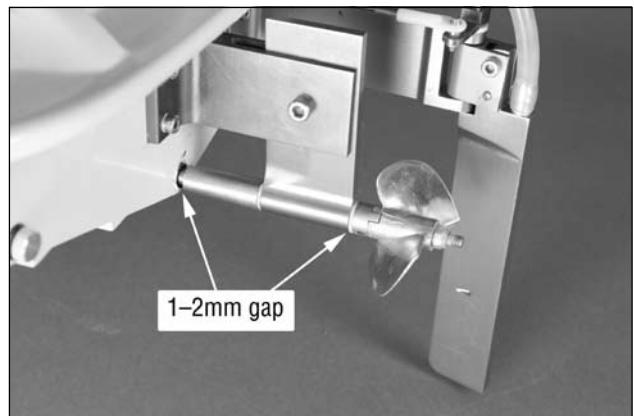
- 5. Liberally apply marine grease (PRB0110) to the flex shaft.



- 3. Slide the flex shaft/prop strut out of the stuffing box from the rear.



- 6. Install in reverse order, being sure to leave a 1-2mm gap between the drive dog and the rear of the propeller strut.



Section 17: Appendix

Photo 1

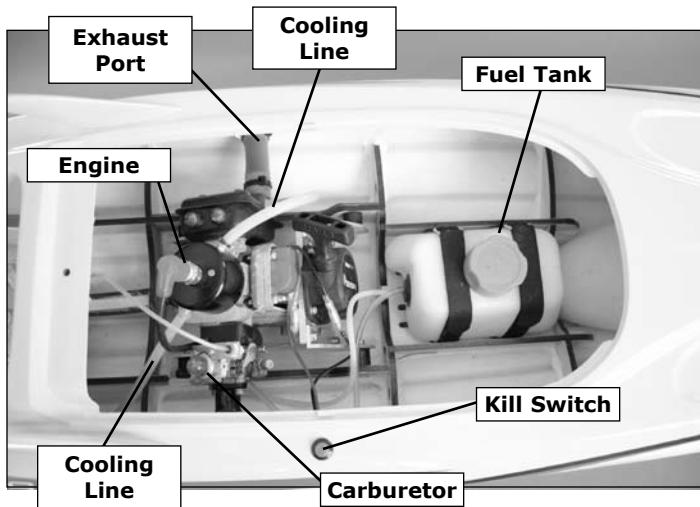


Photo 2

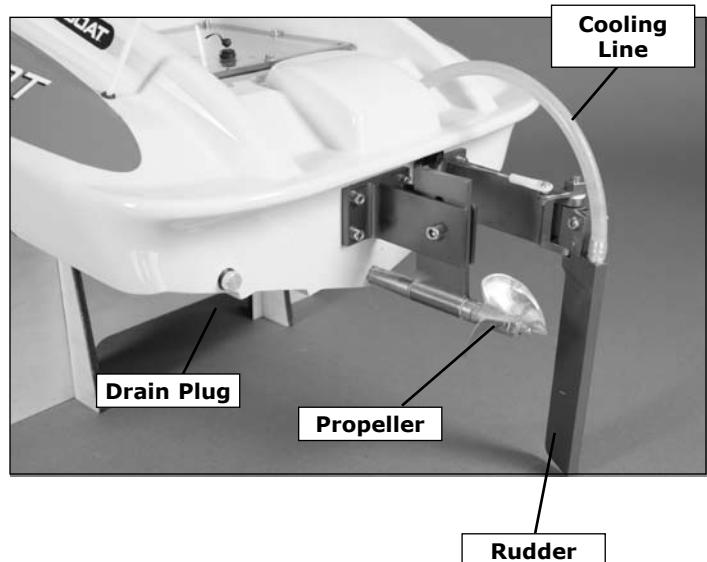


Photo 3

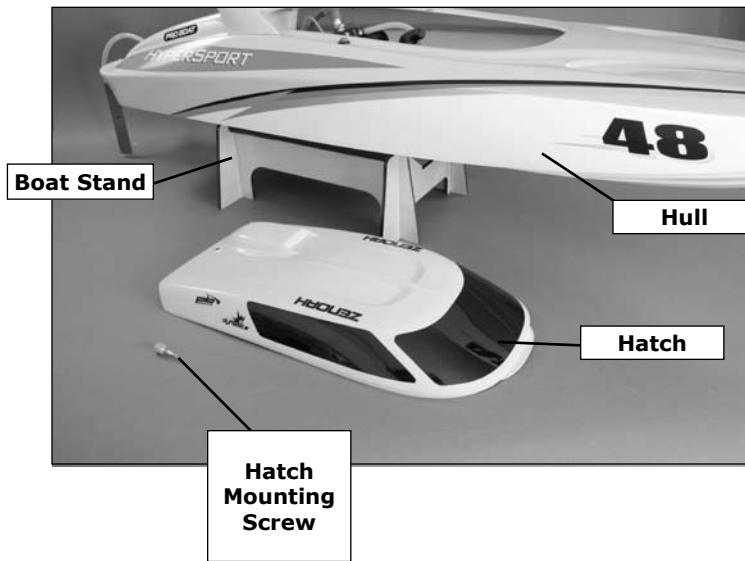
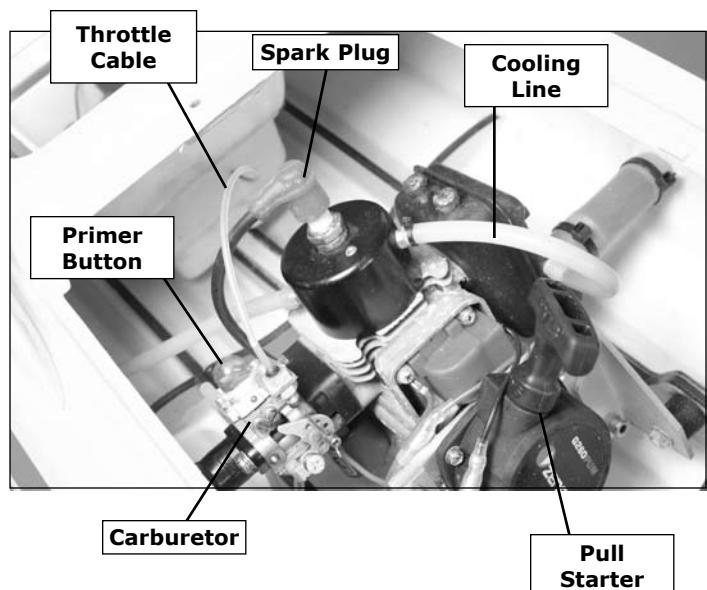


Photo 4



Warranty Information

Age Recommendation

Age Recommendation: 14 years or over. This is not a toy. This product is not intended for use by children without direct adult supervision.

Warranty Period

Exclusive Warranty- 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.

Warranty Information

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 feedback@teamlosi.com, or call 888.899.LOSI (5674) 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.**

United States:

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 or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.

Warranty Information

United Kingdom:

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

Horizon Hobby UK
Units 1-4 Ployters Rd
Staple Tye
Harlow, Essex
CM18 7NS
United Kingdom

Please call +44 (0) 1279 641 097 or e-mail us at sales@horizonhobby.co.uk with any questions or concerns regarding this product or warranty.

Germany:

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

Horizon Technischer Service
Hamburger Strasse 10
25335 Elmshorn
Germany

Please call +49 4121 46199 66 or e-mail us at service@horizonhobby.de with any questions or concerns regarding this product or warranty.

FCC Information

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.

CE Compliance Information for the European Union

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.



The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use:

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

Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH20090514

Product(s): PRB Hypersport with
radio
Item Number(s): PRB2350

Equipment class: 2

The objects of declaration described above
are 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 ERM requirements
for wideband transmission systems operating
in the 2.4 GHz ISM band

EN 301 489-1 v.1.6.1 General EMC
requirements for Radio equipment
EN 301 489-17 v.1.2.1

(in accordance with ISO/IEC 17050-1)

No. HH20090513

Product(s): PRB Hypersport
without radio
Item Number(s): PRB2350

Equipment class: 1

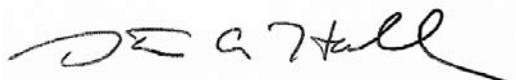
The objects of declaration described above
are in conformity with the requirements of
the specifications listed below, following the
provisions of the European R&TTE directive
1999/5/EC:

EN 301 489-1 v.1.6.1 General EMC
requirements

EN 301 489-17 v.1.2.1

Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
May 14, 2009

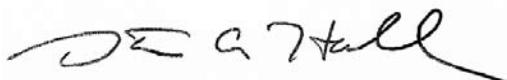
Steven A. Hall



Vice President
International Operations and Risk Management
Horizon Hobby, Inc.

Signed for and on behalf of:
Horizon Hobby, Inc.
Champaign, IL USA
May 13, 2009

Steven A. Hall



Vice President
International Operations and Risk Management
Horizon Hobby, Inc.



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