

# Valere 22

**Electric-Powered Ready-To-Run Deep-V**

## **Owners Manual**



### **Specifications**

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Hull Length.....	22 in (558.8mm)
Beam.....	7.5 in (190.5mm)
Motor.....	Water-cooled 550-sized
Radio System.....	Pro Boat 2.4GHz Spektrum Marine DSM Pistol-Grip
Speed Control.....	Electronic speed control with reverse
Battery .....	8.4V 1600mAh 2/3 A NiMH Battery
Charger.....	12V DC 1.2A Peak Charger

[www.ProBoatModels.com](http://www.ProBoatModels.com)



## 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 [www.horizonhobby.com](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 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.

## Additional Safety Precautions and Warnings

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

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

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

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.

## Introduction

Thank you for purchasing the Pro Boat® Volere™ 22 Electric-Powered Ready-To-Run boat. Please read these instructions carefully before attempting to operate the boat.

The Volere comes ready-to-run with an 2.4GHz Spektrum radio system and electronic speed controller already installed. All assembly is done at the factory, allowing you to quickly get the boat running.

## Features

- No assembly required
- Real wood trim layered on a hand-crafted fiberglass hull
- Pro Boat 2.4GHz Spektrum Marine DSM Pistol-Grip
- Preinstalled electronic speed control with reverse
- Includes a 8.4V 1600mAh battery for longer run times
- Includes a DC 1.2A Peak Charger

## Additional Required Items

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

- 4 AA alkaline batteries for the radio transmitter

## Inspection

- 1. Carefully remove the boat and radio transmitter from the box.
- 2. Inspect the boat. If you notice damage from shipping, please contact the hobby shop where you purchased it.

The items included with your Volere 22 are:

- Assembled Volere 22 EP RTR
- Pro Boat radio transmitter
- Boat stand
- 8.4V, 1600mAh Ni-MH battery pack
- DC 1.2A Peak Charger



## Installation of Transmitter Batteries

- 1. Remove the battery cover from the transmitter.

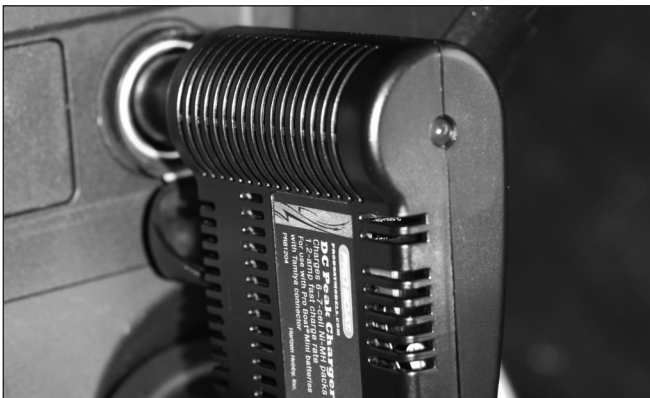


- 2. Install 4 AA alkaline batteries into the transmitter. Be sure each battery cell is installed in the proper polarity. The polarity is marked at each cell's location inside the transmitter.
- 3. Slide the battery cover in place.
- 4. Move the switch to the "ON" position. The LED will light if the batteries are in good condition and installed properly.
- 5. Make sure to turn off the transmitter before proceeding with the installation of the battery in the boat.

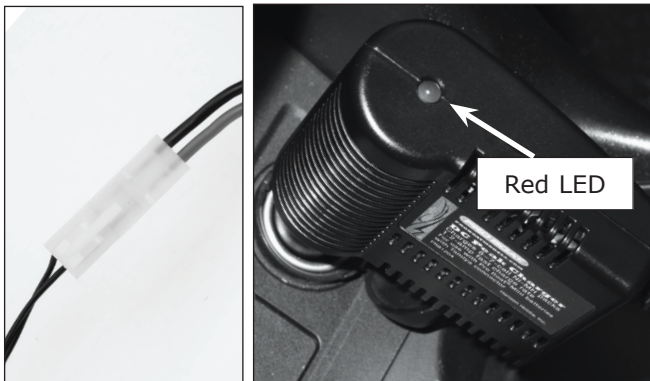
## Charging and Installing the 8.4V Ni-MH Battery

### Charging:

- 1. Connect the charger to a 12V DC power source such as an auxiliary power connection in a vehicle. The red LED light will flash three times when power connection is made.



- 2. Connect the battery to the charger. The LED will quickly flash on and off during the fast charge process. When the red light (LED) stops flashing and is solid "on", the battery is fully charged and ready for use.



### Installing:

- 1. Carefully lift the magnetic rear deck lid to expose the battery compartment.

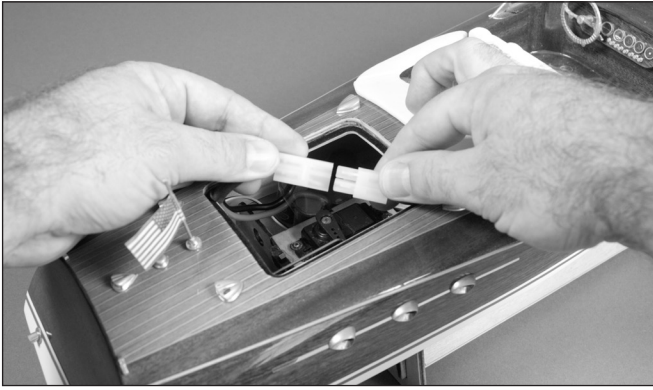


- 2. Install a fully charged 8.4-volt Ni-MH battery pack into the hull. (Follow the instructions included with the fast charger to ensure a safe charge.)

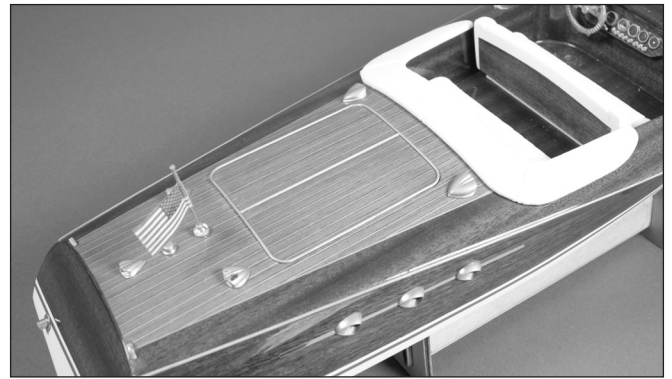




- 3. Connect the battery plug to the matching connector on the electronic speed control.

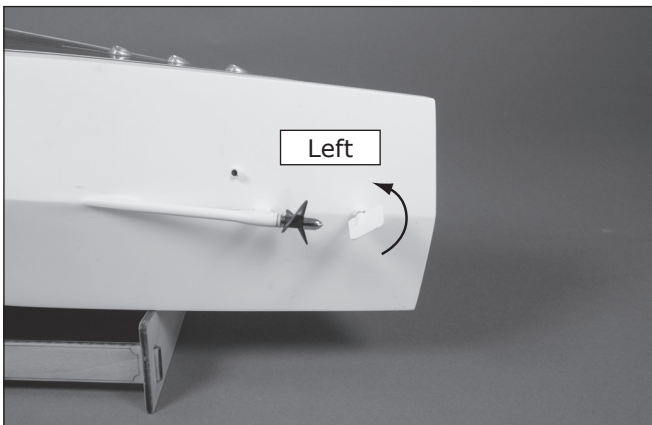
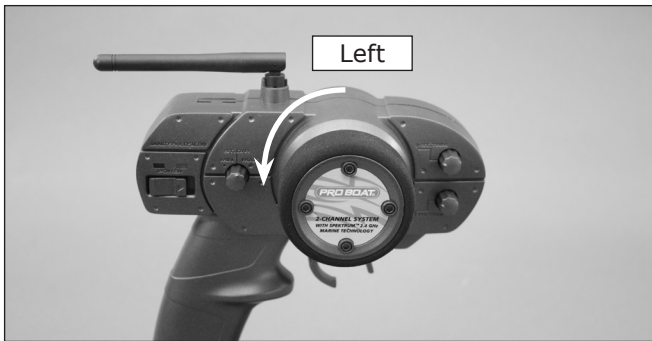


- 4. Replace the hatch.

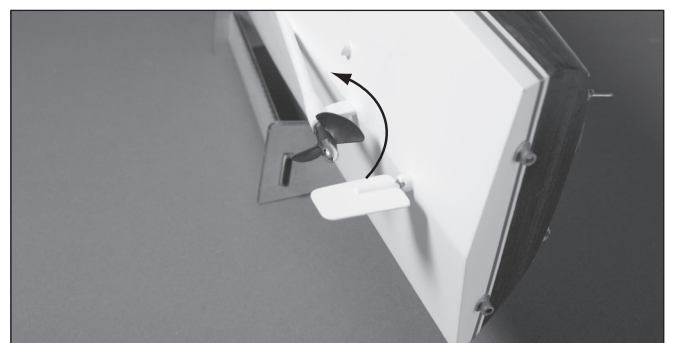


## Checking the Radio System

- 1. Turn on the transmitter then the receiver and check for correct operation. Move the Steering wheel on the transmitter left and right. The rudder should move relative to the stick movement.



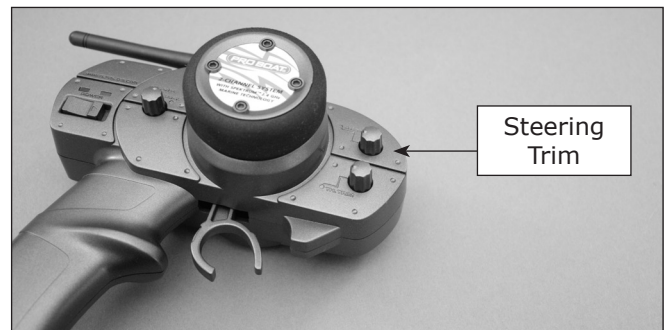
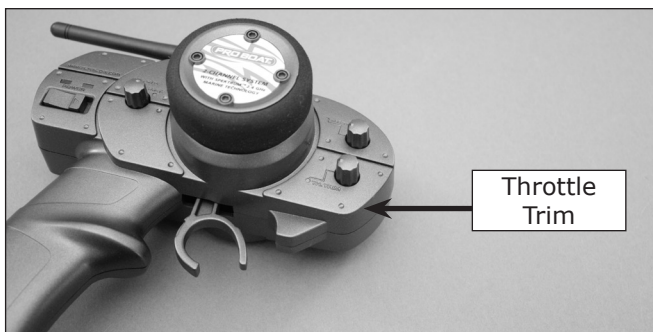
- 2. With the propeller free from any objects, give some throttle input to ensure that the motor is working. If everything appears to be functioning correctly, you are ready to run your boat! If any of these functions are reversed, change the respective reversing switch position.



**Note:** If you are transporting the boat, disconnect the battery from the speed controller and then turn the 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, making sure that the throttle is in the neutral position. Read the radio system instructions (included with the boat) before operating.

## Testing the Boat in the Water

- 1. Make sure that the radio is on and the battery is plugged into the speed controller and motor.
- 2. Carefully place the boat in the water. Pilot the boat at slow speeds, staying close to the shoreline to ensure that you have good control and that the boat is functioning correctly.
- 3. If the motor operates when the throttle is released, it may be necessary to adjust the trim on the transmitter so the motor is stopped when the throttle is released.
- 4. Be certain to avoid all objects in the water. Once you feel comfortable with the control of the boat, it is safe to go further from the shore and at faster speeds.
- 5. If the boat is losing speed, steer the boat carefully back to shore. It will be necessary to replace or recharge the battery before running your boat again.
- 6. If the boat tends to drift one direction during operation, adjust the steering trim to compensate.

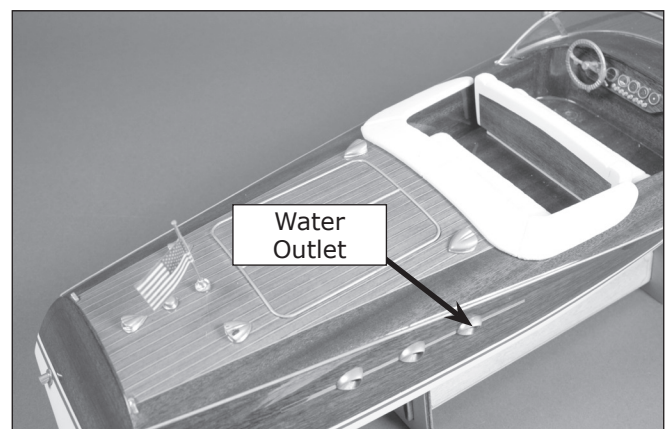
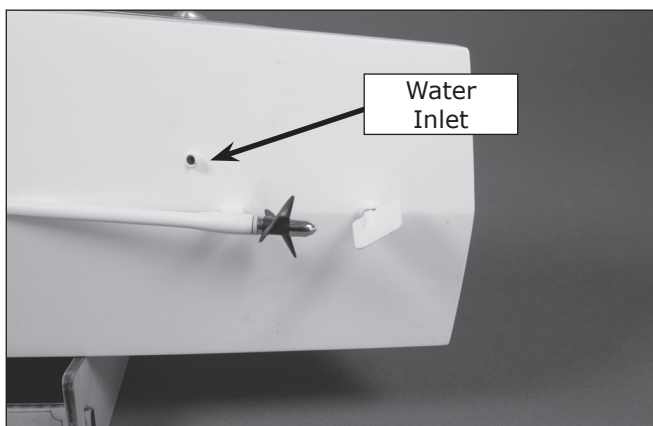


## Water Cooling

Lake water is forced into the cooling system when the boat is moving forward via a water pick-up mounted on the bottom of the hull and is exhausted through a port on the side of the boat.

If no cooling water is exhausting the port, stop operation and remove debris from the system or repair any breaks in the system.

Operating the Volere 22 without proper water cooling will damage the motor.



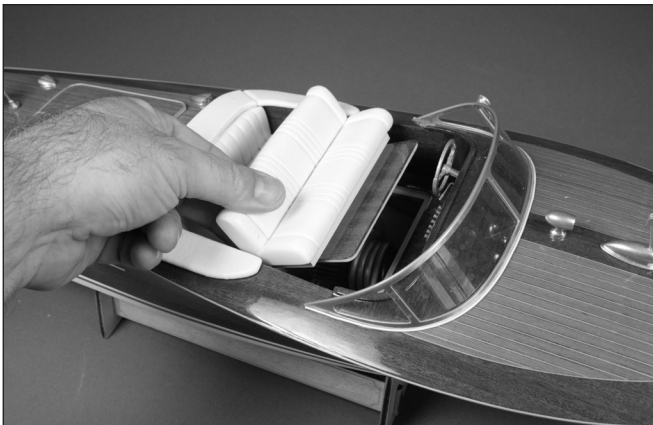
## Maintenance and Lubricating the Driveshaft

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

If you have any questions concerning the setup or running of the Volere, please contact the appropriate Horizon Product Support department.

Lubricating the driveshaft 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.

- 1. Remove the front seat from the cockpit by tipping it rearward and lifting it from the cockpit. The seat is held in position by magnets.

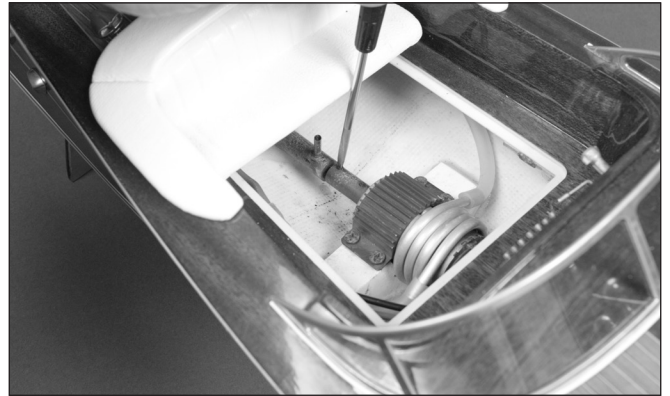


- 2. An oiling port has been installed on the stuffing box for lubricating the driveshaft. Fill the oil port with a light oil (available at any hardware store) prior to operation.

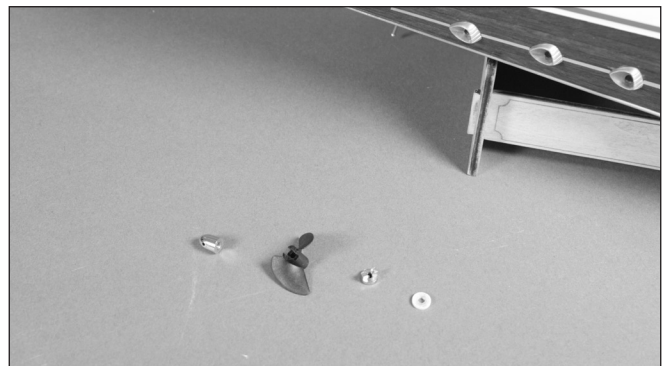


After each day of operation, remove the driveshaft to clean and remove debris.

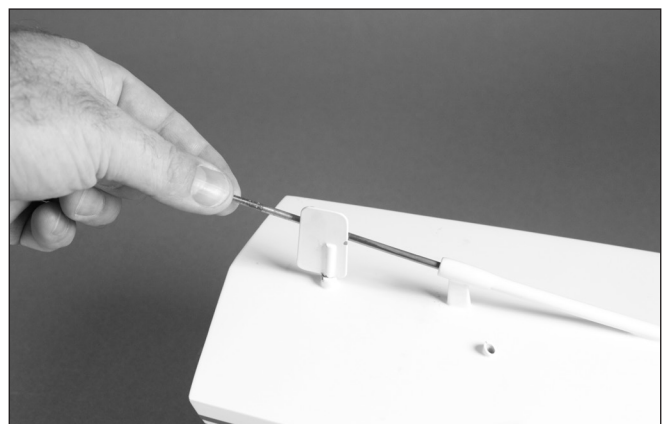
- 1. Remove the 1.5mm setscrew on the motor coupler.



- 2. Use a .050 hex wrench or a small piece of music wire to remove the nut securing the propeller. Remove the propeller and hardware from the driveshaft.

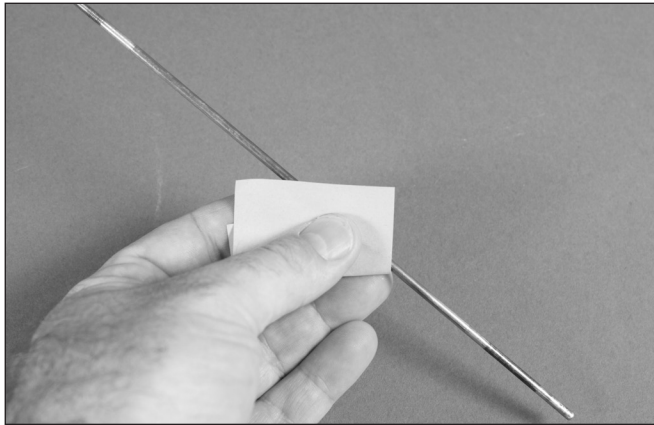


- 3. Slide the driveshaft out of the boat from the rear. Move the rudder slightly to clear the driveshaft.





- 4. Remove any debris, burned oil or rust from the driveshaft with fine emory cloth or sandpaper. Thoroughly oil the driveshaft.



- 5. Install the driveshaft back in the stuffing box. Remember to install the white nylon washer, drive dog, propeller and propeller nut back on the driveshaft. Tighten the setscrew to secure the driveshaft to the motor adapter.

**Note:** Running the Volere 22 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.

Because of its corrosive effects, running RC boats in saltwater is at the discretion of the modeler.

## Replacement Parts

PRB3051	8.4V 2/3A 1600mAh Ni-MH Battery	PRB3062	Hull Only
PRB3052	Front Seat	PRB3063	Boat Stand
PRB3053	Windshield	PRB3064	Decal Sheet
PRB3054	Steering Wheel	PRB3065	Motor Coupler
PRB3055	30 amp ESC with Reverse	PRB3066	Driveshaft with Stuffing Box
PRB3056	550-size Motor	PRB3067	Hull Accessories
PRB3057	Motor Mount	PRB8060	Transmitter
PRB3058	Propeller with Drive Dog	SPMMR200	Receiver
PRB3059	Cooling System	PRB8061	Servo
PRB3060	Rear Hatch Cover	PRB1204	12V DC 1.2A Peak Charger
PRB3061	Rudder with Linkage		

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of America	Sales	4105 Fieldstone Rd Champaign, Illinois 61822 USA	800-338-4539 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



# Warranty and Repair Policy

## **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**

**Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.**

(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 all warranty claims.

(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 Product 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).

## **WARRANTY SERVICES**

### **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](mailto: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](http://www.horizonhobby.com).

### **Inspection or Repairs**

If this Product needs to be inspected or repaired, please use the Horizon Online Repair 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 Repair Request is available at [www.horizonhobby.com](http://www.horizonhobby.com) under the Repairs 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 repair. 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 batteries to Horizon. If you have any issue with a battery, please contact the appropriate Horizon Product Support office.**

### **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.

### **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. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for inspection or repair, you are agreeing to Horizon’s Terms and Conditions found on our website under the Repairs tab.

## Warranty and Service Contact Information

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

## FCC Information

### **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.



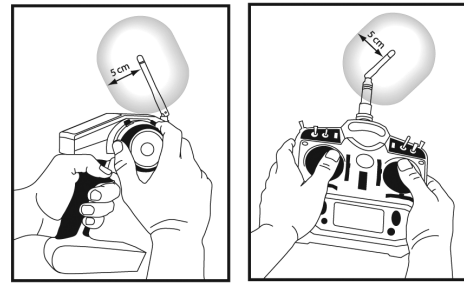
**Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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.

## Antenna Separation Distance

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 Spektrum 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

### Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2011022001

Product(s): PRB Volere 22 EP RTR  
Item Number(s): PRB3050S  
Equipment class: 2

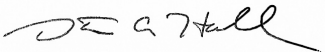
The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC and EMC Directive 2004/108/EC:

EN 300-328 V1.7.1	Technical requirements for Radio equipment
EN 301 489-1 V1.6.1, 301 489-17 V1.2.1	General EMC requirements
EN 60950-1:2006+A11	Safety

EN55022: 2006 Class B	Radio disturbance characteristics
EN55024:1998+A1:2001+A2:2003	Immunity characteristics



Signed for and on behalf of:  
Horizon Hobby, Inc.  
Champaign, IL USA  
Feb. 20, 2011

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

### 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.



**Konformitätserklärung laut Allgemeine Anforderungen (ISO/IEC 17050-1:2004, korrigierte Fassung 2007-06-15); Deutsche und Englische Fassung EN ISO/IEC 17050-1:2010**

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

Horizon Hobby GmbH  
Hamburger Straße 10  
D-25337 Elmshorn

erklärt das Produkt: PRB Volere 22 EP RTR  
declares the product::  
Artikelnummer(n) PRB3050S  
Item Number(s)  
Gerateklasse: 2  
Equipment class

im Einklang mit den Anforderungen der unten aufgeführten Bestimmungen nach den Bestimmungen der europäischen FTEG (Artikel 3 der R&TTE) und EMV-Richtlinie 2004/108/EG:  
The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European (Article 3 of the R&TTE directive) and EMC Directive 2004/108/EC:

Angewendete harmonisierte Normen:  
Harmonized standards applied:

EN 300 328 V1.7.1	Maßnahmen zur effizienten Nutzung des Frequenzspektrums § 3 (2)(Artikel 3 (2)) Measures for the efficient use of the radio frequency spectrum § 3 (2) (Article 3 (2))
EN 301 489-1, 301 489-17 V1.2.1	Schutzanforderungen in Bezug auf elektromagnetische Verträglichkeit §3 (1) 2, (Artikel 3 (1) b)) Protection requirement concerning electromagnetic compatibility §3 (1) 2, (article 3 (1)b))
EN 60950-1:2006+A11	Gesundheit und Sicherheit gemäß §3 (1) 1. (Artikel 3(1)a)) Health and safety requirments pursuant to §3 (1) 1. (article 3(1)a))
EN55022: 2006 Class B	Funkstöreigenschaften - Grenzwerte und Messverfahren Radio disturbance characteristics
EN55024: 1998+A1:2001+A2:2003	Störfestigkeitseigenschaften Immunity characteristics



Elmshorn, 20.02.2011

**Steven A. Hall**  
Geschäftsführer  
Managing Director

**Birgit Schamuhn**  
Geschäftsführerin  
Managing Director

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Internet: www.horizonhobby.de

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