River Jet™ Boat

PRB08025

23-INCH RTR

Owners Manual • Bedienungsanleitung
Manuel de l’utilisateur • Manuale dell’utente
Your new Horizon Hobby boat has been designed and built with a combination of waterproof and water-resistant components to allow you to operate the product in calm, fresh water conditions.

While the entire boat is highly water-resistant, it is not completely waterproof and your boat should NOT be treated like a submarine. The various electronic components used in the boat, such as the servo(s) and receiver are waterproof, however, most of the mechanical components are water-resistant and require additional maintenance after use.

Metal parts, including the bearings, pins, screws and nuts, propeller, rudder, rudder mounts, prop struts, as well as the contacts in the electrical cables, will be susceptible to corrosion if additional maintenance is not performed after running in wet conditions. To maximize the long-term performance of your boat and to keep the warranty intact, the procedures described in the “Wet Conditions Maintenance” section must be performed regularly.

**CAUTION:** Failure to exercise caution while using this product and complying with the following precautions could result in product malfunction and/or void the warranty.
**General Precautions**

- Read the **WET CONDITIONS MAINTENANCE** procedures and make sure that you have all the tools you will need to properly maintain your boat.
- Not all batteries can be used in wet conditions. Consult the battery manufacturer before use. Caution should be taken when using Li-Po batteries in wet conditions.
- Most transmitters are not water-resistant. Consult your transmitter’s manual or the manufacturer before operation.
- Never operate your transmitter or boat when lightning is present.
- Salt water is very conductive and highly corrosive. If you choose to run your boat in salt water, immediately rinse the boat in fresh water after each use. Operating your boat in salt water is at the sole discretion of the modeler.

**Wet Conditions Maintenance**

- Drain any water that has collected in the hull by removing the drain plug or canopy and tilting the boat in the appropriate direction to drain the water.

  **CAUTION:** Always keep hands, fingers, tools and any loose or hanging objects away from rotating parts.

- Remove the battery pack(s) and dry the contacts. If you have an air compressor or a can of compressed air, blow out any water that may be inside the recessed connector housings.
- Remove all moving parts. Dry and lubricate parts after every 30 minutes of operation or if the boat becomes submerged.

  **NOTICE:** Never use a pressure washer to clean your boat.

- Use an air compressor or a can of compressed air to dry the boat and help remove any water that may have gotten into small crevices or corners.
- Spray the bearings, fasteners and other metal parts with a water-displacing light oil or lubricant.
- Let the boat air dry before you store it. Water (and oil) may continue to drip for a few hours.

**Specifications**

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<tr>
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<td>6.5 in (165mm)</td>
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<td>Transmitter</td>
<td>STX2™ 2CH (SPMSTX200)</td>
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<td>ESC</td>
<td>90A Brushless Marine ESC 2-4S (DYNM3970)</td>
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<td>Servo</td>
<td>3KG, Plastic Gear Servo, VP, 23T (SPMS6063)</td>
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**Product Inspection**

Carefully remove the boat and radio transmitter from the box. Inspect the boat for damage. If your product is damaged, please contact the hobby shop where you purchased your boat, or contact Product Support. Refer to the Warranty and Service Contact Information section for more info.

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2. **Throttle Trigger** Controls speed and direction (forward/brake/reverse) of the model
3. **ON/OFF Switch** Turns the power ON/OFF
4. **Throttle Limiting Switch** Adjusts the throttle limit from 50%, 75%, and 100%
5. **TH Rate** Adjusts the end point of the throttle
6. **TH Trim** Adjusts the throttle neutral point
7. **TH REV** Reverses the function of the speed control when pulled back or pushed forward
8. **ST REV** Reverses the function of the steering when the wheel is turned left or right
9. **ST Trim** Adjusts the steering center point
10. **ST Rate** Adjusts the end point of the steering
11. **Antenna** Transmits the signal to the model
12. **Indicator Lights**
   - **Solid red lights**—indicates radio connectivity and adequate battery power
   - **Flashing red lights**—indicates the battery voltage is critically low. Replace batteries

### Installing Transmitter Batteries
This transmitter requires 4 AA batteries.
1. Remove the battery cover from the transmitter.
2. Install the batteries as shown.
3. Install the battery cover.

⚠️ **CAUTION:** If using rechargeable batteries, charge only rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.

⚠️ **CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to national regulations.

### Antenna Tube Installation
Install the receiver antenna in the tube as shown. Do not bend the end of antenna over the antenna tube and place the cap over it or damage may result. The antenna does not have to be outside of the tube to operate properly.

Keep the end of the antenna above the boat’s waterline to get the best transmitter reception. Apply clear tape (DYNM0102), if desired.

**NOTICE:** Do not cut or kink the receiver antenna or damage may result.
Battery Pack Installation

1. Loosen the 4 screws located at each corner of the canopy.
2. Remove the canopy from the hull starting with the 2 rear screws. Ensure that the 4 screws have disengaged from their bases before lifting the canopy carefully.
   To secure the battery, use either the included self adhesive foam pad or hook and loop tape (DYNK0300). We recommend hook and loop tape when running your boat in rough water.
3. Install the battery in the battery tray using the hook and loop straps.
4. Connect the battery pack to the EC3™ connector on the ESC.

Control Check

IMPORTANT: Perform a control check at the beginning of each boating session, after repair or after installing new batteries.

1. Power ON the transmitter and the boat. Do not install the boat canopy.
2. Place the boat securely on the boat stand.
3. Test the steering: Turn the transmitter steering wheel to the left and to the right to check for proper control movement of the steering nozzle in response to your transmitter input.
4. Test the throttle: Apply minimal throttle and check that the motor and flywheel are rotating counterclockwise.
5. If everything appears to be operating correctly, prepare to operate the boat in the water.

Getting Started

1. Remove the canopy from the hull.
2. Install the receiver antenna in the antenna tube.
3. Install the fully charged battery in the compartment and secure it with the hook and loop straps.
4. Power on the transmitter. Ensure the throttle is not reversed and the throttle trim is neutral.
5. Connect the battery to the ESC.
6. Keep the throttle at neutral and power on the ESC by pushing and holding the power switch for 2 seconds.
   - Once armed, the ESC will beep and the LED will flash, indicating the number of battery cells it has detected.
   - 1 short beep will sound and the LED will turn solid when the ESC is ready to run.

NOTICE: Pressing and holding the ESC SET button for 3 seconds allows you to change the battery chemistry from LiPo to NiMH. Refer to Electronic Speed Control (ESC) Programming for more information.

7. Install the canopy on the hull.
When running your boat for the first time, we recommend calm wind and water conditions so that you can learn how the boat responds to your control. Maximum speeds are only achieved when the water conditions are smooth and there is little wind. A sharp turn, wind or waves can turn over a boat when it is moving quickly. Always pilot your boat for the wind and water conditions so that the boat does not turn over. Consult local laws and ordinances before choosing a location to pilot your boat.

**Self-Righting**

If the boat turns over, release the throttle until the boat comes to a stop. Return the boat to upright by applying a short throttle burst.

The boat sitting in the water normally leans to the battery side. Apply throttle to level the boat. No weight adjustment is necessary.

**NOTICE:** The included weighted motor coupler aids self-righting after the boat has flipped and full throttle is applied. This coupler is intended for use with the included battery or other batteries with a 4000mAh maximum capacity.

To self-right the boat in calm water:
1. Apply a burst of reverse.
2. Apply a burst of full throttle.
   The boat should rock and right itself.

To self-right the boat in rough water:
1. Release the throttle.
2. Apply a burst of forward, reverse and forward throttle. The boat should rock and right itself.

**When You Are Finished**

1. Power off the receiver by pressing the power button for 2 seconds.
2. Power off the transmitter.
3. Disconnect and remove the battery from the boat.

**Tip:** Always remove the canopy before storage or moisture may allow mold and mildew to grow in the boat. Drain water from inside the hull using the drain plug.

- Fully dry the inside and outside of the boat, including the water cooling lines and jacket around the motor
- Remove the hatch before storing your boat
- Repair any damage or wear to the boat
- Lubricate the drive shaft using Pro Boat® Marine Grease (DYNE4200 or DYNE4201) (see, Drivetrain Lubrication)
- Make note of lessons learned from the trimming of your boat, including water and wind conditions

**Tip:** The hook and loop strips in the boat retain water. To dry them, press on them with a dry cloth.

**NOTICE:** When you are finished boating, never leave the boat in direct sunlight or in a hot, enclosed area such as a car. Doing so can damage the boat.

1. Power off the receiver by pressing the power button for 2 seconds.
2. Power off the transmitter.
3. Disconnect and remove the battery from the boat.

**Boating Tips**

When running your boat for the first time, we recommend calm wind and water conditions so that you can learn how the boat responds to your control.

Avoid boating near:
- watercraft
- people (swimming areas, fishing areas)
- stationary objects
- waves, wakes
- rapidly moving water
- wildlife
- floating debris
- overhanging trees
- vegetation
Unlike rudder steerable boats, jet boats must have power applied to the motors in order for the boat to turn. When making turns, decrease the throttle to reduce the probability of flipping the boat over. The boat will not steer when coasting off power.

Never operate your boat in less than 3 inches (7.6 cm) of water.

**CAUTION:** Running your boat in shallow water increases the chance of debris entering the jet pump. Verify that the jet pumps are free of debris, as operating the boat with a blocked jet drive for a prolonged period will damage the motor and ESC.

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**Optional Trim Adjustment Servo**

You can install a servo that allows you to adjust the boat’s trim via a 3-channel radio.

**IMPORTANT:** This option is not available with the included radio system.

The servo tray fits a 1/18-scale or 1/16-scale servo (SPMS401). To install a trim servo in the servo tray:

1. Use a 1.5mm hex driver to loosen:
   - the set screw holding the steering link push rods to the servo arm, and
   - the set screw holding the trim link push rod to the servo tray
2. Disconnect the steering servo wire from the receiver.
3. Use a 2mm hex driver to remove the 4 screws holding the servo tray to the jet pump.
4. Insert a 1.5mm hex driver into the servo link end nut and use it as a handle to loosen the link end nut from the radio tray.
5. Install the servo in the radio tray.
   - **Tip:** Servo hold down screws are not included. We recommend M3 stainless steel button head screws with a 2mm hex head.
6. Attach the servo link end nut to the trim servo control arm.
   - **Tip:** Over tightening the servo link end nut can cause your servo to burn out prematurely. Test the servo arm movement by hand to ensure there is no drag or excessive friction.
7. Use a 2mm hex driver to install the servo tray on the jet pump using the 4 M3 screws removed in Step 3.
8. Power ON the ESC, allowing both the steering servo and the newly installed trim servo to center.
9. Center out the steering nozzle and tighten the set screw using a 1.5mm hex driver.
10. With the trim servo powered and centered, install the servo arm perpendicular to the servo.
11. Slide the trim link push rod through the rubber bellow and into the servo link end nut.
   - **Tip:** Use marine grease on the link for smoother installation.
12. Set the steering nozzle trim to its desired position. Using a 1.5mm hex driver, tighten the set screw. This is now the default trim setting until you make adjustments with the new trim servo.
13. Using your transmitter, actuate the servo up and down to find the maximum travel. Ensure the servo end points are properly set.
   - **NOTICE:** If you do not properly set the servo end points damage to the servo and/or the jet pump will result.
14. Test the servo trim function in calm water and adjust the settings accordingly.

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If you need to retrieve your boat from the water, use fishing equipment or another boat.

**CAUTION:** Never operate your boat in extreme temperatures or turbulent water.

**CAUTION:** Never attempt to retrieve a downed boat by swimming to retrieve it.
Maintenance

Servicing the Drive Shaft

1. Remove the silicone cooling line from the brass fitting on the jet pump housing.
2. Use a 1.5mm hex driver to remove the bolts holding the steering and trim links from the steering and trim assemblies on the pump.
   Use needle nose pliers to hold the nut that holds the bolt to the lever.
3. Use a 1.5mm hex driver to loosen:
   • the set screw holding the steering link to the steering servo arm
   • the set screw holding the trim adjustment link in place
4. Remove the trim adjustment link from the boat.
   Inspect the links for damage and set them aside, taking care not to mix up the steering and trim adjustment links.
5. Use a 2mm hex driver to remove the 7 screws surrounding the main jet pump nozzle.
   These screws are held to the hull by 2 plates that hold the nuts. If the plates and nuts loosen inside the hull, carefully remove them.
6. Gently pull the housing away from the hull by grabbing it at the base.
   It is normal for the rubber bellows to come off the hull along with the nozzle.
7. Use a 2mm hex driver to remove the set screw that holds the drive shaft to the weighted motor coupler.
8. Remove the drive shaft from the boat.
   Use pliers to grab the shaft by the nut if removal by hand is difficult. Do not use pliers on the drive shaft threads or damage will result.
9. Inspect the impeller and drive shaft for excessive wear or damage and replace them when necessary.
   A discolored drive shaft indicates a lack of lubrication.
   Increase the amount of marine grease you are using.
   If you replace the drive shaft, you must also replace the stuffing tube. See Replacing the Stuffing Tube for more information.
10. Use the Dynamite® Grease Gun with Marine Grease (DYNE4200) to apply 3–5 pumps of grease directly into the brass stuffing tube.
    Before installing the drive shaft into the brass tube, place a paper towel between the motor coupler and the brass stuffing tube to catch excess grease.
11. Install the drive shaft into the brass tube.
    Insert the drive shaft into the brass tube using a plunging and spinning motion thereby coating the drive shaft with grease.
12. Using the paper towel placed in between the stuffing tube and the motor coupler, push the drive shaft out of the brass stuffing tube.
    Ensure you have used enough marine grease. If there is not excess grease, remove the drive shaft and apply additional grease. Repeat Step 10.
13. Push the drive shaft into the motor coupler.
14. Apply a small amount of blue Thread Lock on the set screw. Use a 2mm hex driver to install the set screw into the motor coupler and tighten the set screw by hand.
   **Tip:** Apply marine grease to the tip of your 2mm driver. The grease will keep the set screw in place.
15. Ensure the impeller does not touch the jet pump housing by spinning the motor or flywheel by hand.
    If the drive shaft and impeller housing are touching, loosen the set screw and pull the drive shaft out just enough to provide the appropriate amount of clearance.
16. Install the jet pump nozzle on the hull.
    Once all the screws are loosely in place, tighten the screws down in a crisscross pattern. Do not over tighten the screws or you will damage the flange on the jet pump nozzle.
17. Install the rubber bellows from inside the hull outward.
    Apply a small amount of marine grease to the bellows to ease their movement through the hull. Remove excess grease after installation.

Drivetrain Lubrication

Always replace the drivetrain parts when they are damaged or show visible wear or injury and damage may result.

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 tube.
Replacing the Stuffing Tube

We recommend replacing the brass stuffing tube if you replace the drive shaft or if you notice wear or vibration in the drive line.

1. Follow Servicing the Drive Shaft Steps 1–9.
2. Use a 2.5mm hex driver to remove both screws from the motor mount.
3. Disconnect the motor wires and remove the motor from the hull, placing the motor aside.
4. Using a 2mm L-shaped hex driver, loosen the jet pump housing bolt until it is even with the nut holding it in place. **Do not remove the bolt completely.**
5. Insert the drive shaft into the brass stuffing tube, applying minimal lateral force while simultaneously pushing away from yourself. **NOTICE:** Applying too much force prevents the drive shaft from entering the brass tube correctly.
6. Install the new brass stuffing tube (from inside the boat) pushing it toward the back of the boat. Verify the brass tube sits inside the jet pump housing support webbing. **NOTICE:** Do not push the brass tube flush with the pump or you will damage the support webbing.
7. Follow Servicing the Drive Shaft Steps 10–20 to reassemble the jet pump.

**WARNING:** Do not allow the drive shaft to push the brass tube out the back of the pump. Doing so could damage the pump webbing.

Water Cooling System

If water does not stream out of the water outlets while the boat is moving forward, immediately stop the boat and inspect the water cooling system.

1. Disassemble and clean the water cooling system to remove blockage and prevent overheating.
2. Replace any damaged parts.
3. Inspect the system for loose connections, kinks or tears in the line.

**NOTICE:** Running the boat in saltwater could cause some parts to corrode. If you run the boat in saltwater, rinse it thoroughly in freshwater after each use and lubricate the drive system. You can also use water displacement spray to help prevent the parts from corroding.

**NOTICE:** Because of its corrosive effects, running RC boats in saltwater is at the discretion of the modeler. Corrosion is not covered under warranty.
**General Information**

**Binding**

Binding is the process of programming the receiver to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. The STX2™ transmitter and SPMSRX200 receiver are bound at the factory. If you need to rebind, follow the instructions below:

1. Insert the Bind Plug in the BIND port of the ESC.
2. Connect a fully charged battery to the ESC.
3. Power on the ESC. The red receiver LED flashes, indicating the receiver is in bind mode.
4. Center the ST TRIM and TH TRIM dials on the transmitter.
5. Turn the Steering Wheel to Full Right. Power ON the transmitter while holding the Steering Wheel to the Right.
6. Release the Steering Wheel when the receiver LED goes solid.
7. Remove the Bind Plug and store it in a convenient place.
8. Power OFF the ESC to save the settings.
9. Power OFF the transmitter.

You must rebind when:
- When you want different failsafe positions (e.g. when throttle or steering reverse has been changed).
- Binding the receiver to a different transmitter.

**NOTICE:** Do not attempt to bind the transmitter and receiver if there are other compatible transmitters in bind mode within 400 feet. Doing so may result in unexpected binding.

**Throttle Range Calibration**

1. Power on the transmitter and set the TH TRIM dial to the center position and the TH RATE to full clockwise position.
2. Install the battery in the boat and connect it to the ESC.
3. With the ESC powered OFF, pull the throttle trigger to FULL throttle and press the power button on the ESC simultaneously. The ESC will beep twice. The green light will flash with each beep.
4. Return the throttle to neutral. The ESC will beep once and the green light will flash once.

The calibration process is now complete. The ESC will arm with beeps and flashes to announce the number of battery cells it has detected. Reverse calibration is unnecessary.

**Failsafe**

In the unlikely event that the radio connection is lost during use, the receiver will drive the servo and ESC to their pre-programmed failsafe positions (normally no throttle and straight steering).

If the receiver is powered on before powering on the transmitter, the receiver will enter this failsafe mode. When the transmitter is powered on, normal control is resumed.

**Low Voltage Cutoff (LVC)**

**IMPORTANT:** The ESC must be in LiPo mode to safely operate the boat under LiPo power. Please refer to the ESC manual for more information.

Discharging a LiPo battery below 3V per cell may damage your battery. The included ESC protects the boat battery from over-discharge using Low Voltage Cutoff (LVC). Before the battery charge decreases too much, LVC removes power supplied to the motor. Power to the motor decreases, showing some power is reserved for the boat to return safely to shore.

Disconnect and remove the LiPo battery from the boat after use to prevent trickle discharge. Charge your LiPo battery to about half capacity before storage. During storage, make sure the battery charge does not fall below 3V per cell. LVC does not prevent the battery from over-discharge during storage.

**NOTICE:** Repeated operation after LVC is activated will damage the battery.

**Tip:** Monitor your boat battery’s voltage before and after boating by using a LiPo Cell Voltage Checker (DYN4071, sold separately).
**Changing the Battery Chemistry**

1. Power on the ESC. By default, the ESC is programed for LiPo battery chemistry. The ESC status light flashes green and emits a tone, indicating LiPo mode, when you power on the ESC.
2. Press and hold the SET button for 3–5 seconds, then release it. The ESC status LED flashes.
3. Press and hold the SET button again for 5–7 seconds, then release it. The ESC status LED changes color and flashes red for 7–10 seconds.
4. The ESC status light goes solid and the ESC emits a tone indicating NiMH mode. The ESC is now armed and ready to use.

**Electronic Speed Control (ESC) Programming**

**Step 1: Enter Program Mode**

1. Power on the transmitter and set the throttle to full.
2. Connect the battery pack to the ESC. After 2 seconds, the ESC beeps twice.
3. Wait 5 seconds and the ESC emits a musical tone.

**Step 2: Select Programmable Item**

The ESC emits four groups of beeps in a loop.

Move the throttle to neutral within 3 seconds of the tone matching the item you want to select.

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<tr>
<td>Beep Beep Beep Beep</td>
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</table>

**Step 3: Set Item Value**

After selecting a programmable item, you will hear several tones in a loop.

4. Move the throttle to full to select the value matching the tone. The ESC emits an alternating tone to indicate selection.
5. Keep the throttle in full to return to Step 2 and continue item selection. Move the throttle to the neutral within 2 seconds to exit the Program Mode.

**Step 4: Exit Program Mode**

1. In Step 3, after hearing the alternating tone, move the throttle to neutral within 2 seconds. –or–
2. Disconnect the battery pack from the ESC.

**ESC Programming Procedure**

Programming can be accomplished using the Dynamite® LED Program Card (DYNS3005, sold separately) or via the transmitter. Please refer to your DYNM3870 manual for transmitter programming instructions.

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<th>Programmable Items</th>
<th>B</th>
<th>BB</th>
<th>BBB</th>
<th>BBBB</th>
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<td>15.00°</td>
<td>18.75°</td>
<td>22.50°</td>
<td>26.25°</td>
</tr>
</tbody>
</table>

![Green ESC status indicator light](LiPo battery chemistry)

![Red ESC status indicator light](NiMH battery chemistry)

**WARNING:** Operating the ESC with LiPo chemistry in NiMH mode will permanently damage the LiPo battery.

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**Changing the Battery Chemistry**

1. Power on the ESC. By default, the ESC is programed for LiPo battery chemistry. The ESC status light flashes green and emits a tone, indicating LiPo mode, when you power on the ESC.
2. Press and hold the SET button for 3–5 seconds, then release it. The ESC status LED flashes.
3. Press and hold the SET button again for 5–7 seconds, then release it. The ESC status LED changes color and flashes red for 7–10 seconds.
4. The ESC status light goes solid and the ESC emits a tone indicating NiMH mode. The ESC is now armed and ready to use.
# Troubleshooting Guide

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<td></td>
<td>Boat conditions may be too cold</td>
<td>Make sure the battery is warm (above 10º C [50º F]) before use</td>
</tr>
<tr>
<td></td>
<td>Battery capacity may be too low for conditions</td>
<td>Replace battery or use a larger capacity battery</td>
</tr>
<tr>
<td></td>
<td>Too little lubrication on driveshaft</td>
<td>Fully lubricate driveshaft</td>
</tr>
<tr>
<td></td>
<td>Vegetation or other obstacles block the propeller</td>
<td>Remove vegetation or obstacles from propeller</td>
</tr>
<tr>
<td>Boat will not Bind (during</td>
<td>Transmitter is too near boat during binding process</td>
<td>Move powered transmitter a few feet from boat,</td>
</tr>
<tr>
<td>binding) to transmitter</td>
<td></td>
<td>disconnect and reconnect battery to boat</td>
</tr>
<tr>
<td></td>
<td>Boat or transmitter is too close to large metal</td>
<td>Move the boat and transmitter to another location and attempt binding again</td>
</tr>
<tr>
<td></td>
<td>object, wireless source or another transmitter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Another compatible transmitter is powered</td>
<td>Power off all compatible transmitters except the one you are trying to bind</td>
</tr>
<tr>
<td></td>
<td>on within range of the receiver</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boat battery/transmitter battery charge is too low</td>
<td>Replace/recharge batteries</td>
</tr>
<tr>
<td></td>
<td>ESC switch is off</td>
<td>Power on ESC switch</td>
</tr>
<tr>
<td>Boat will not connect (after</td>
<td>Transmitter is too near boat during connecting</td>
<td>Move powered transmitter a few feet from boat,</td>
</tr>
<tr>
<td>binding) to transmitter</td>
<td>process</td>
<td>disconnect and reconnect battery to boat</td>
</tr>
<tr>
<td></td>
<td>Boat or transmitter is too close to large metal</td>
<td>Move the boat and transmitter to another location and attempt to connect again</td>
</tr>
<tr>
<td></td>
<td>object, wireless source or another transmitter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boat battery/transmitter battery charge is too low</td>
<td>Replace/recharge batteries</td>
</tr>
<tr>
<td></td>
<td>ESC switch is off</td>
<td>Power on ESC switch</td>
</tr>
<tr>
<td>Boat tends to dive in the</td>
<td>The boat hull is not completely closed</td>
<td>Dry out the boat and ensure the hatch is fully closed on the hull before returning the boat to the water</td>
</tr>
<tr>
<td>the water or takes on water</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Center of gravity is too far forward</td>
<td>Move batteries back in the hull</td>
</tr>
<tr>
<td>Boat tends to turn one</td>
<td>Debris is blocking a jet pump</td>
<td>Remove the debris from the jet pump</td>
</tr>
<tr>
<td>direction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controls reversed</td>
<td>Transmitter settings are reversed</td>
<td>Do the Control Direction Test and adjust controls on transmitter appropriately</td>
</tr>
<tr>
<td>Motor overheats</td>
<td>Blocked water cooler tubes</td>
<td>Clean or replace water tubes</td>
</tr>
<tr>
<td>Motor power pulses then motor</td>
<td>ESC uses default Soft Low Voltage Cutoff (LVC)</td>
<td>Recharge boat battery or replace battery that is no longer performing</td>
</tr>
<tr>
<td>loses power</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather conditions might be too cold</td>
<td>Postpone until weather is warmer</td>
</tr>
<tr>
<td></td>
<td>Battery is old, worn out or damaged</td>
<td>Replace battery</td>
</tr>
<tr>
<td>Boat moves forward or</td>
<td>Throttle trim on transmitter not centered</td>
<td>Adjust throttle trim to set neutral point</td>
</tr>
<tr>
<td>backward without input from</td>
<td></td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>Steering trim on transmitter not centered</td>
<td>Adjust steering trim so vehicle drives straight</td>
</tr>
<tr>
<td>Boat does not drive straight</td>
<td>Steering dual-rate (D/R) not adjusted</td>
<td>Adjusts steering dual-rate (D/R) knob on transmitter to desired steering throw</td>
</tr>
<tr>
<td></td>
<td>correctly</td>
<td></td>
</tr>
<tr>
<td>No steering or lack of</td>
<td>Servo failed</td>
<td>Contact Horizon Product Support</td>
</tr>
<tr>
<td>steering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No throttle or lack of throttle</td>
<td>Throttle dual-rate (D/R) not adjusted</td>
<td>Adjust the throttle dual-rate (D/R) knob on transmitter to desired steering throw</td>
</tr>
<tr>
<td></td>
<td>correctly</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ESC failed</td>
<td>Contact Horizon Product Support</td>
</tr>
<tr>
<td></td>
<td>Motor failed</td>
<td>Contact Horizon Product Support</td>
</tr>
</tbody>
</table>
Limited Warranty

What this Warranty Covers
Horizon Hobby, LLC, (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, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations or (vii) use that violates any applicable laws, rules, or regulations.

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 your local distributor or 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 visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services
If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, 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/content/service-center_render-service-center. 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 Li-Po batteries to Horizon. If you have any issue with a Li-Po 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 cashier’s 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/content/service-center_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender’s choice and at the sender’s expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.
## Warranty and Service Contact Information

<table>
<thead>
<tr>
<th>Country of Purchase</th>
<th>Horizon Hobby</th>
<th>Contact Information</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States of America</td>
<td>Horizon Service Center (Repairs and Repair Requests)</td>
<td>servicecenter.horizonhobby.com/RequestForm/</td>
<td>4105 Fieldstone Rd Champaign, Illinois, 61822 USA</td>
</tr>
<tr>
<td></td>
<td>Horizon Product Support (Product Technical Assistance)</td>
<td><a href="mailto:productsupport@horizonhobby.com">productsupport@horizonhobby.com</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>877-504-0233</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sales</td>
<td>websubscription.horizonhobby.com</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>800-338-4639</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Service/Parts/Sales: Horizon Hobby Limited</td>
<td><a href="mailto:sales@horizonhobby.co.uk">sales@horizonhobby.co.uk</a></td>
<td>Units 1–4, Ployers Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+44 (0) 1279 641 097</td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>Horizon Technischer Service</td>
<td><a href="mailto:service@horizonhobby.de">service@horizonhobby.de</a></td>
<td>Christian-Junge-Straße 1 25337 Elmshorn, Germany</td>
</tr>
<tr>
<td></td>
<td>Sales: Horizon Hobby GmbH</td>
<td>+49 (0) 4121 2655 100</td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>Service/Parts/Sales: Horizon Hobby SAS</td>
<td><a href="mailto:infofrance@horizonhobby.com">infofrance@horizonhobby.com</a></td>
<td>11 Rue Georges Charpak 77127 Lieusaint, France</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+33 (0) 1 60 18 34 90</td>
<td></td>
</tr>
</tbody>
</table>

## FCC Information

**FCC ID: 2AI3D-SS0001** 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.

## IC Information

**IC ID: 21682-SSTC9202** This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**Antenna Separation Distance**

When operating your Spektrum 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 following illustrations show the approximate 5 cm RF exposure area and typical hand placement when operating your Spektrum transmitter.

## EU Compliance Statement

**CE:** Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the R&TTE, EMC, and LVD Directives.

A copy of the EU Declaration of Conformity is available online at: [http://www.horizonhobby.com/content/support-render-compliance](http://www.horizonhobby.com/content/support-render-compliance).
### Replacement Parts / Ersatzteile / Pièces de rechange / Pezzi di ricambio

<table>
<thead>
<tr>
<th>Part #</th>
<th>English</th>
<th>Deutsch</th>
<th>Français</th>
<th>Italiano</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYNM3870</td>
<td>90A BL Marine ESC 2-4S</td>
<td>90 A BL Marine ESC 2-4S</td>
<td>Contrôleur Brushless 90A marin 2-4S</td>
<td>ESC BL Marine 90A 2-4S</td>
</tr>
<tr>
<td>DYNM3962</td>
<td>2300kV 14-Pole Brushless Outrunner Marine Motor</td>
<td>2300 kV 14-poles Brushless Outrunner Marine Motor</td>
<td>Moteur Brushless 14 pôles 2300 kV marin à cage tournante</td>
<td>Motore marino outrunner brushless 14 poli 2300 kV</td>
</tr>
<tr>
<td>PRB286031</td>
<td>Motor Coupler, 5mm Mtr x 3,7mm Flx Shift</td>
<td>Accoppiatore moteur, 5mm (moteur) x 3,7mm (flexible)</td>
<td>Accoppiatore motore, 5 mm motore x 3,7 mm albore flessibile</td>
<td>Accoppiatore motore, 5 mm motore x 3,7 mm albore flessibile</td>
</tr>
<tr>
<td>PRB286033</td>
<td>Motor Tray: 23” River Jet Boat: RTR</td>
<td>Motorkupplung: 5mm Mtr x 3,7mm Flx Shift</td>
<td>Accoppiatore motore, 5 mm motore x 3,7 mm albore flessibile</td>
<td>Accoppiatore motore, 5 mm motore x 3,7 mm albore flessibile</td>
</tr>
<tr>
<td>SPM5005</td>
<td>9KG Servo, VP, Metal, 23T</td>
<td>Servo 9kg à pignoni métalliques, étanche, tête 23T</td>
<td>Servo 9 kg, waterproof, metallo, 23T</td>
<td>Servo 9 kg, waterproof, metallo, 23T</td>
</tr>
<tr>
<td>SPMST200</td>
<td>STX2 2CH 2.4GHz FHSS Radio System</td>
<td>Émetteur STX2 2 voies 2,4GHz FHSS</td>
<td>Radiocomando STX2 2Ch 2,4 GHz FHSS</td>
<td>Radiocomando STX2 2Ch 2,4 GHz FHSS</td>
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</table>

### Recommended Parts / Empfohlene Teile / Pièces recommandées / Pezzi consigliati

<table>
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<tr>
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<tbody>
<tr>
<td>DYNM071</td>
<td>LiPo Cell Voltage Checker</td>
<td>Li-Po-Zelle Spannungssprüher</td>
<td>Testeur de tension d’élément Li-Po</td>
<td>Strumento di controllo della batteria Li-Po</td>
</tr>
<tr>
<td>DYN0215</td>
<td>Proboat Preceptor DSMR 4Ch 2300KV 14-Pole</td>
<td>Proboat Preceptor DSMR 2300KV 14-poles</td>
<td>Proboat Preceptor DSMR 2300KV 14-poles</td>
<td>Proboat Preceptor DSMR 2300KV 14-poles</td>
</tr>
<tr>
<td>DYN0240</td>
<td>Rectifier &amp; Marine Electronics 5 oz</td>
<td>Rectifier &amp; Marine Electronics 5 oz</td>
<td>Rectifier &amp; Marine Electronics 5 oz</td>
<td>Rectifier &amp; Marine Electronics 5 oz</td>
</tr>
<tr>
<td>DYNK0300</td>
<td>Hoop and Loop Tape Set, 75x25mm 4pcs</td>
<td>Hoop and Loop Tape Set, 75x25mm 4pcs</td>
<td>Hoop and Loop Tape Set, 75x25mm 4pcs</td>
<td>Hoop and Loop Tape Set, 75x25mm 4pcs</td>
</tr>
<tr>
<td>DYNM0102</td>
<td>Clear Flexible Marine Tape (18m)</td>
<td>Transparent, flexible Marine Tape (18m)</td>
<td>Adhésif Marin transparent flexible (18m)</td>
<td>Nastro marino flessibile trasparente (18m)</td>
</tr>
<tr>
<td>EFL0200</td>
<td>EC3 Data Charge Lead with 12” Wire &amp; Jacks, 16AWG</td>
<td>EC3 Data Charge Lead with 12” Wire &amp; Jacks, 16AWG</td>
<td>EC3 Data Charge Lead with 12” Wire &amp; Jacks, 16AWG</td>
<td>EC3 Data Charge Lead with 12” Wire &amp; Jacks, 16AWG</td>
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<tr>
<td>EFLB3200350</td>
<td>3200mAh 11.1V 30C LiPo, 13AWG EC3</td>
<td>3200mAh 11.1V 30C LiPo, 13AWG EC3</td>
<td>3200mAh 11.1V 30C LiPo, 13AWG EC3</td>
<td>3200mAh 11.1V 30C LiPo, 13AWG EC3</td>
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</tbody>
</table>

### Optional Parts / Diverse Teile / Pièces optionnelles / Pezzi optionali

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<th>Part #</th>
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<th>Italiano</th>
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</thead>
<tbody>
<tr>
<td>EFLB40004S50</td>
<td>4000mAh 4S 14.8V 30C LiPo, 12AWG EC3</td>
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<td>4000mAh 4S 14.8V 30C LiPo, 12AWG EC3</td>
<td>4000mAh 4S 14.8V 30C LiPo, 12AWG EC3</td>
</tr>
<tr>
<td>DYN2801</td>
<td>Nut Driver: 4mm</td>
<td>Nutenmutter: 4 mm</td>
<td>Tournevis pour écrou: 4mm</td>
<td>Chiave da brugola: 4 mm</td>
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<tr>
<td>DYN2803</td>
<td>Nut Driver: 5mm</td>
<td>Nutenmutter: 5 mm</td>
<td>Tournevis pour écrou: 5mm</td>
<td>Chiave da brugola: 5 mm</td>
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<tr>
<td>DYN2819</td>
<td>5 pc Metric Hex Driver</td>
<td>5-teller metrischer Schachtellschlüssel</td>
<td>Assortiment de 5 tournevis hexagonaux métalliques (5pcs)</td>
<td>Assortimento 5 pz. chiavi esagonali metallici (5pz)</td>
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<tr>
<td>DYN401</td>
<td>GPS Speed Meter</td>
<td>GPS-Tachometer</td>
<td>Tachymètre GPS</td>
<td>Tachimetro GPS</td>
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<td>DYN4012</td>
<td>Marine Grease 5 oz</td>
<td>Marine Grease 5 oz</td>
<td>Marine Grease 140g</td>
<td>Grassino marino 5 oz</td>
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<tr>
<td>EFLB32004550</td>
<td>3200mAh 4S 14.8V 50C LiPo, 12AWG EC3</td>
<td>3200mAh 4S 14.8V 50C LiPo, 12AWG EC3</td>
<td>3200mAh 4S 14.8V 50C LiPo, 12AWG EC3</td>
<td>3200mAh 4S 14.8V 50C LiPo, 12AWG EC3</td>
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<tr>
<td>SMTP4000</td>
<td>DX4C DSMR 4CH Tx w/SR410</td>
<td>DX4C DSMR 4CH Tx w/SR410</td>
<td>Émetteur DX4C DSMR 4 voies avec SR410</td>
<td>Trasmittente DX4C DSMR 4CH con SR410</td>
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<tr>
<td>SMTPR4000</td>
<td>MR4000 DSMR 4 Ch Marine Receiver</td>
<td>MR4000 DSMR 4-Kanal Marine-Empfänger</td>
<td>Récepteur MR4000 DSMR 4 voies</td>
<td>Ricevente marina MR4000 DSMR 4 Ch</td>
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<td>DYNM0102</td>
<td>Waterproof Tape</td>
<td>Wasserfestes Befestigungband</td>
<td>Adhésif étanche</td>
<td>Nastro waterproof</td>
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<tr>
<td>SPM6805</td>
<td>9KG Servo, VP, Metal, 23T</td>
<td>9KG Servo, VP, Metal, 23T</td>
<td>9KG Servo, VP, Metal, 23T</td>
<td>9KG Servo, VP, Metal, 23T</td>
</tr>
</tbody>
</table>

*not compatible with included transmitter or receiver. See www.spektrumrc.com for more details.

*non compatibile con l’emettitore o il ricevitore inclusi. Consultate www.spektrumrc.com per più dettagli.
