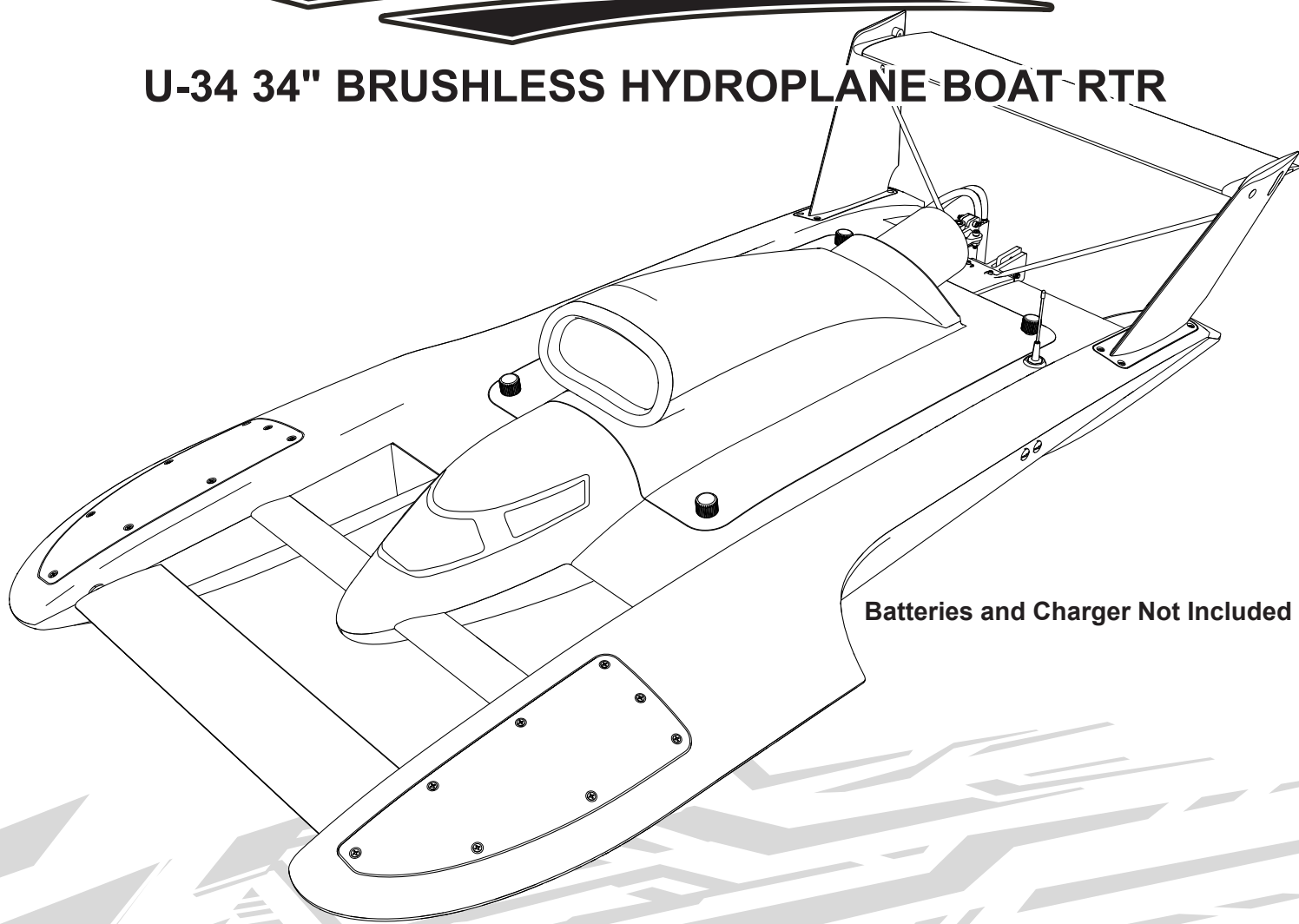




Miss ILLINOIS

U-34 34" BRUSHLESS HYDROPLANE BOAT RTR



Batteries and Charger Not Included

Scan the QR code and select the Manuals and Support quick links from the product page for the most up-to-date manual information.

Scannen Sie den QR-Code und wählen Sie auf der Produktseite die Quicklinks Handbücher und Unterstützung, um die aktuellsten Informationen zu Handbüchern.

Scannez le code QR et sélectionnez les liens rapides Manuals and Support sur la page du produit pour obtenir les informations les plus récentes sur le manuel.

Scannerizzare il codice QR e selezionare i Link veloci Manuali e Supporto dalla pagina del prodotto per le informazioni manuali più aggiornate.



PRB-2072

**Owners Manual • Bedienungsanleitung
Manuel de l'utilisateur • Manuale dell'utente**

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.horizonhobby.com or www.towerhobbies.com and click on the support or resources 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:

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.

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

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of 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 use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. 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.

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

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.

- When handling and/or transporting your boat, always pick up the boat from the front, keeping all moving parts pointed away from you.
- 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 unprotected 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.

Water-Resistant Boat with Waterproof Electronics

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 ESC, 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, propeller 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 LiPo 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.

Included Equipment

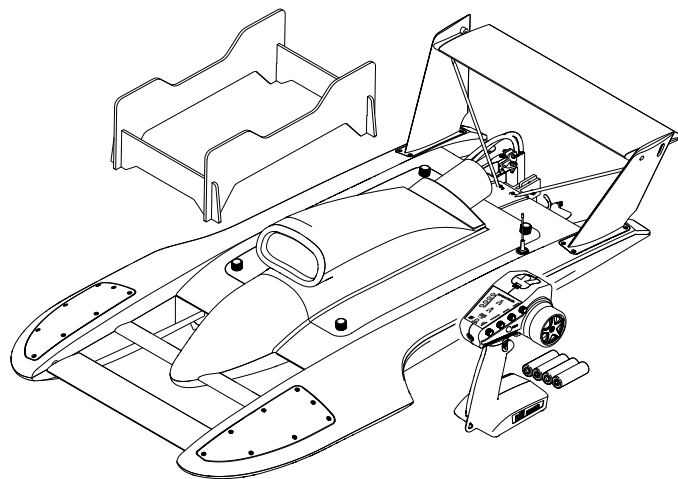
Receiver	Spektrum® SR315 DSMR 3-Channel Sport Receiver (SPMSR315)
Motor	Spektrum® 4685 4-Pole Brushless Marine Motor 1350Kv (SPMXMM1000)
ESC	Firma™ 160 Amp Smart Brushless Marine ESC 3S - 8S (SPMXSE1160M)
Servos	S605 Standard Analog Waterproof 9KG 23T Surface Servo (SPMS605)
Transmitter	DX3 Smart DSMR Transmitter Only (SPMR2355) and AA Alkaline Batteries (4)

Specifications

Length	34 inches (863.6mm)
Beam	19.17 inches (487.0mm)
Hull Height	7.44 inches (189.0mm)
Weight	8.14 pounds (3.7kg)

Required Equipment

Battery	(2) 100C+ 4S LiPo with IC5® or EC5™ Connector
Charger	(1) Dual LiPo



Recommended Tools and Materials

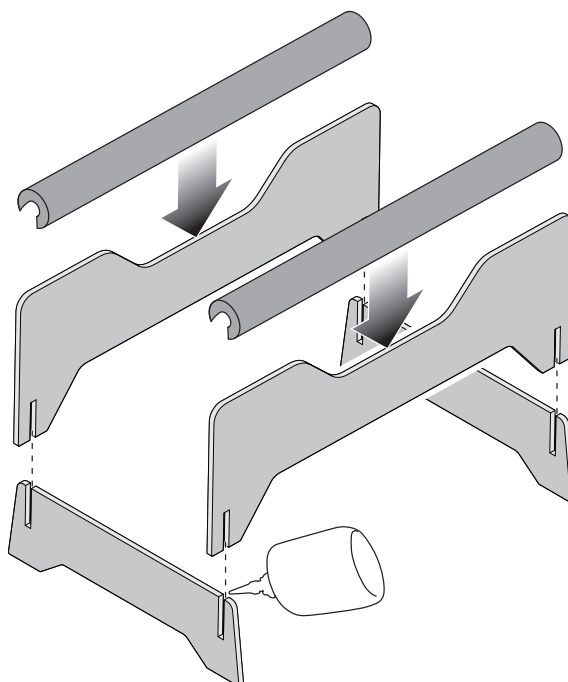
- Needle Nose Pliers
- Paper Towel
- Rubbing Alcohol
- Clear Flexible Marine Tape (18m): DYNM0102
- Open-End Wrench: 12mm (2)
- Nut Driver: 5.5mm, 7mm, 8mm
- Phillips Screwdriver: #1
- Hex Wrench: 1.5mm, 2mm, 2.5mm, 3mm

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Assemble the Boat Stand

1. Attach the side stand pieces to the end pieces, as shown.
2. Use medium CA or epoxy adhesive to secure the stand sides to the ends.
3. Install foam pads (2) on the top of the boat stand.
4. Allow the adhesive to dry before placing the boat on the stand.

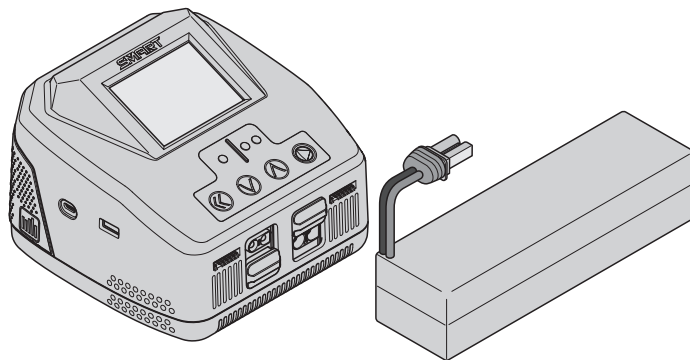


Charge the Vehicle Battery

Follow the manufacturer's charger instructions to properly charge the vehicle battery. We recommend Spektrum 14.8V 5000 mAh 4S 100C Smart G2 LiPo IC5 (SPMX54S100H5) batteries (two required).

NOTICE: Never charge a battery in the boat, or damage may result.

CAUTION: Only use chargers designed to charge the chosen battery. Using an incompatible charger or incorrect charge settings could result in fire causing personal injury or property damage.

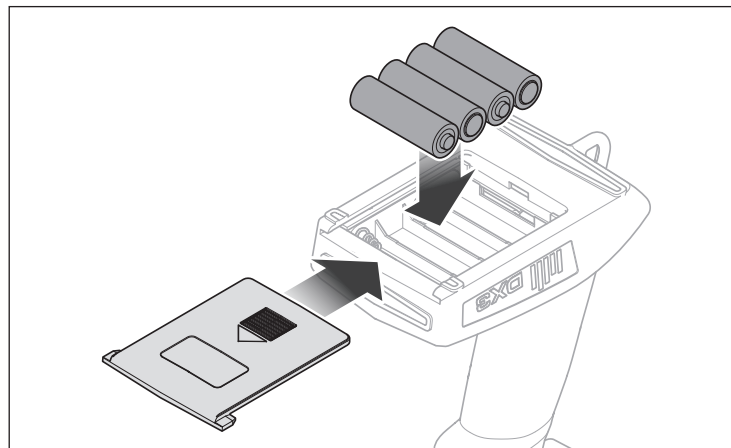


Install the Transmitter Batteries

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: NEVER remove the transmitter batteries while the model is powered on. Loss of model control, damage, or injury may occur.

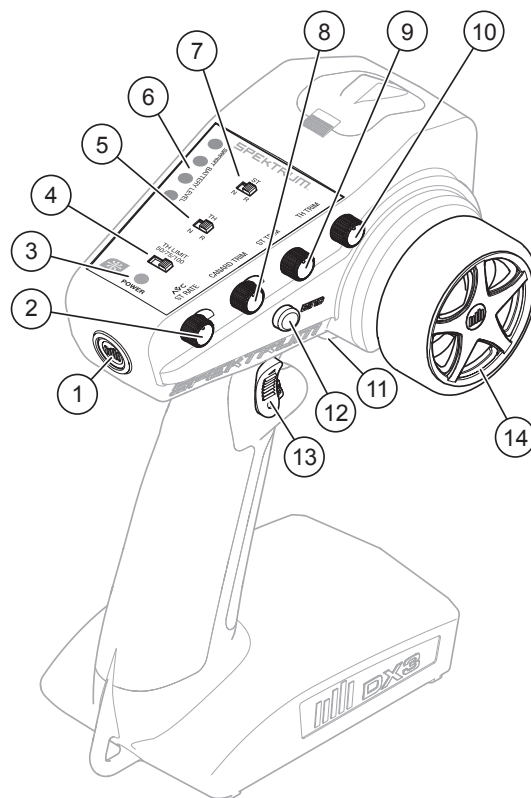


Transmitter Functions

Function	
1	Power Button
2	AVC® Steering Rate
3	LED Indicator
4	Throttle Limit Switch
5	Throttle Reverse Switch
6	Smart Battery Level Indicator
7	Steering Reverse Switch
8	Canard Trim
9	Steering Trim
10	Throttle Trim
11	Throttle/Brake Trigger
12	Bind Button
13	A/B Rocker Switch A Button: Increase lift of the canard 10% over trimmed position B Button: Applies emergency full downforce
14	Steering Wheel

When the transmitter batteries are low, the LED indicator flashes, alternating between red and green, and the transmitter beeps intermittently. The beeps become increasingly persistent as the battery voltage gets lower.

Change the transmitter batteries when the LED indicator flashes red and green.



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

Binding

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

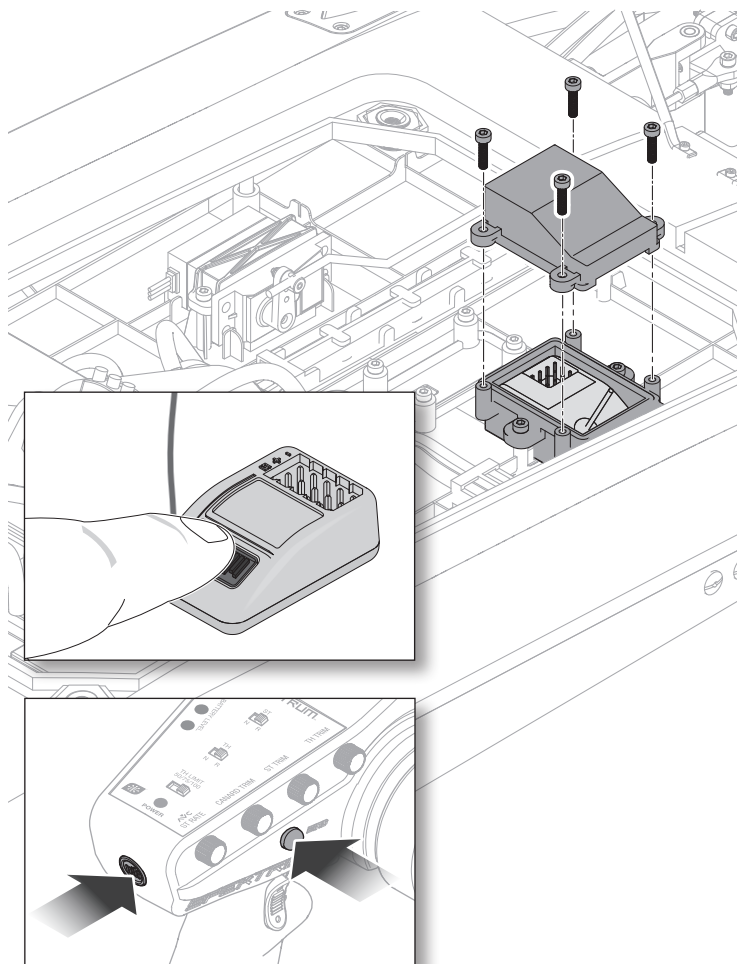
1. Remove the four screws from the receiver box, then remove the receiver box lid.
2. Connect two fully-charged batteries to the ESC.
3. Press and hold the receiver bind button, then power on the boat. The receiver light blinks rapidly while in bind mode.
4. Release the bind button.
5. Press and hold the transmitter bind button while powering the transmitter ON.
6. Release the transmitter bind button. Binding is complete when the transmitter and receiver LEDs remain lit.
7. Reinstall the receiver box lid, ensuring the wires exit the box over the wire ports and are not pinched.

You must rebind when:

- Different failsafe positions are desired e.g., when throttle or steering reversing 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 of the boat. Doing so may result in unexpected binding.

When using a Spektrum Smart ESC and Smart battery, the transmitter's Smart battery level indicator displays the vehicle battery level within 10 seconds of powering on and binding.

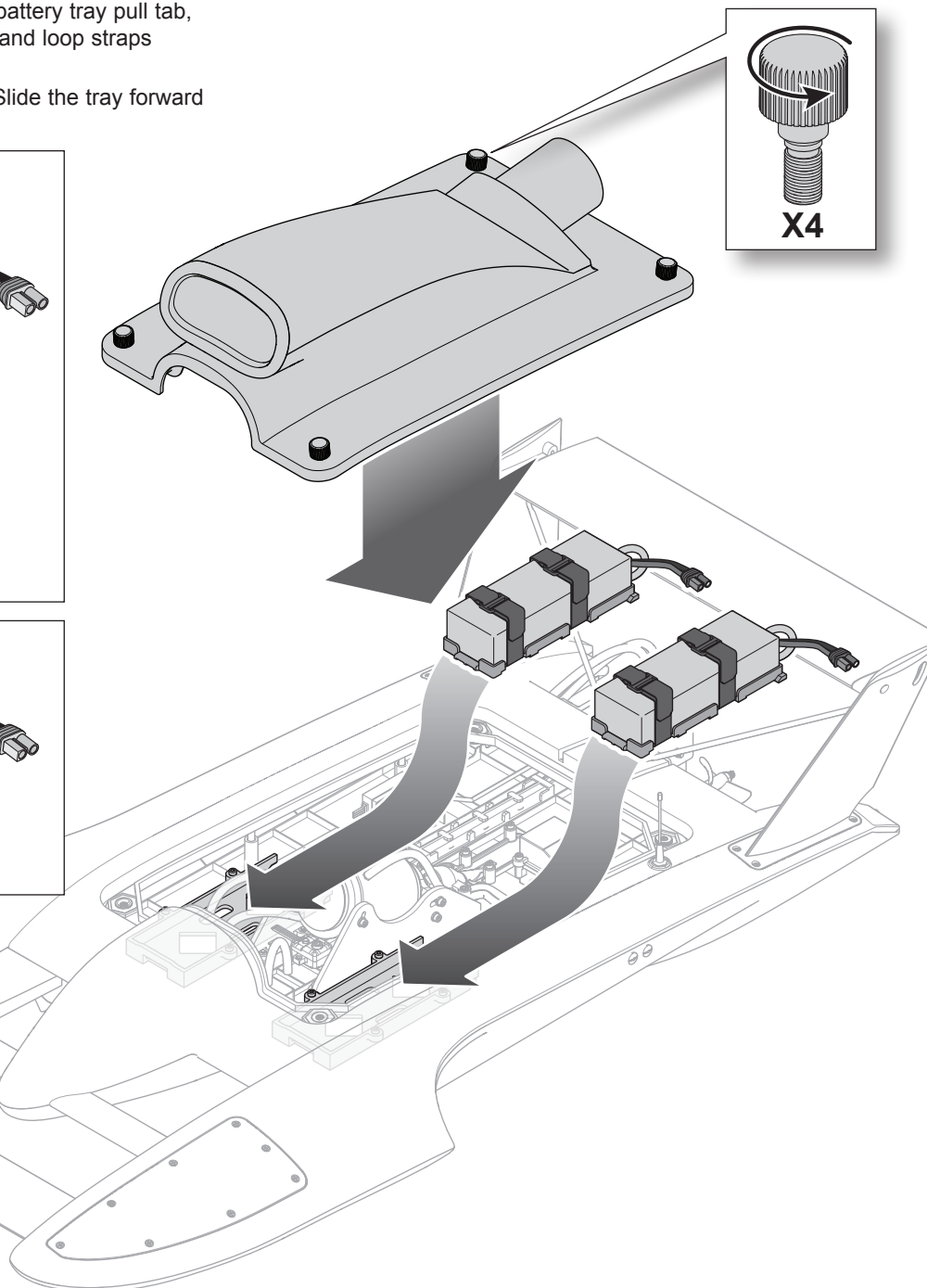
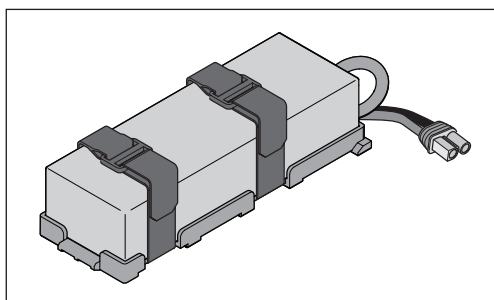
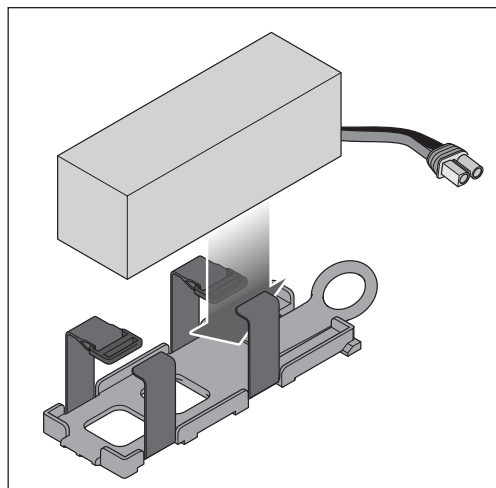


Install the Batteries

1. Set the boat on the included display stand.
2. Loosen the four canopy thumb screws, and remove the canopy from the hull.
3. Remove the Strap, Slide, Lock (SSL) tray from the battery base.
4. Install the recommended, fully-charged batteries into the SSL trays with the wires extending toward the battery tray pull tab, and secure them using the included hook and loop straps (located in the manual/accessories bag).
5. Place the SSL tray into the battery base. Slide the tray forward to lock it into place.

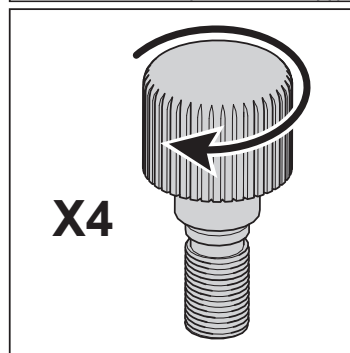
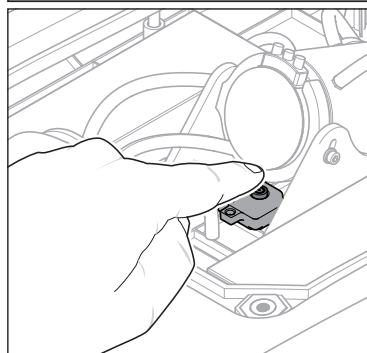
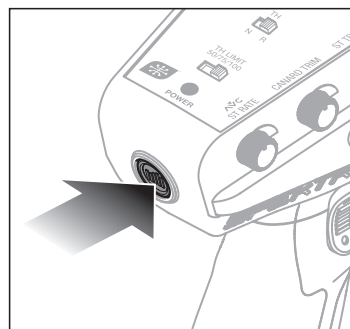
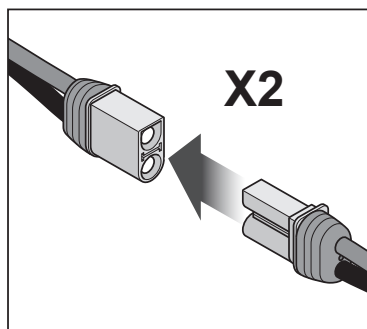


WARNING: When using two batteries, always make sure the batteries are of similar type (voltage and capacity). Connecting batteries of mismatched capacity may result in battery over discharge, which could result in fire causing property damage or personal injury.



Power On the Boat

1. Connect the batteries to the ESC using the IC5 connectors (2).
2. Power ON the transmitter.
3. Power ON the boat.
4. Perform a Range Check (below) to verify radio connectivity.
5. Reinstall the canopy, then tighten the four canopy thumb screws, clockwise.



Low Voltage Cutoff (LVC)

The factory default setting for the LVC in the ESC included with your boat is set at 3.2V per cell. 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.

The boat drastically slows or stops completely once LVC is activated. Releasing the throttle and reapplying it will provide a limited amount of power to safely return the boat to shore. Repeated use after LVC is activated will damage the batteries.

Once LVC has been activated, the ESC status light will flash red continuously indicating that the ESC is in LVC mode.

NOTICE: Repeated operation to LVC will damage the battery.

LVC can activate prematurely if you use (1) low C-rated batteries or (2) old, worn, and/or weak batteries.

The average run time—using the recommended batteries (SPMX54S100H5)—is between 3–4 minutes at non-stop, open throttle. Limited run time may indicate worn or weak batteries.

TIP: If you've installed freshly charged batteries, and LVC activates within the first minute of operation, replace your worn or weak batteries with the recommended batteries.

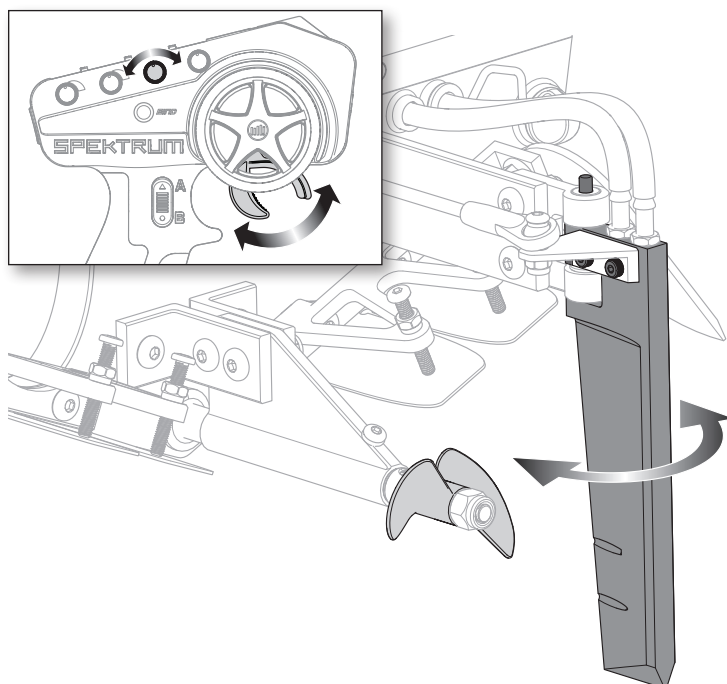
TIP: Use the Spektrum XBC200 Smart LiPo Battery Checker & Servo Tester (SPMXBC200) to monitor the battery voltage before and after boating.

Disconnect and remove the LiPo battery from the boat after use to prevent trickle discharge. Charge your LiPo battery to 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.

Range Check

IMPORTANT: Perform a range check at the beginning of each boating session, after any repair, or after new battery installation. Ensure that the battery is fully charged and the receiver antenna is correctly positioned.

1. Place the boat securely on the included display stand.
2. With the radio system powered ON and connected, walk 90 feet (32 m) away from the boat.
3. Have an assistant remain with the boat to check for proper steering control movement in response to the transmitter input.
4. If everything is operating correctly, prepare to operate the boat.



Boating Tips

Consult local laws and ordinances before choosing a location to drive the boat.

CAUTION: Never attempt to retrieve a downed boat by swimming. If you need to retrieve the boat from the water, use fishing equipment, a recovery boat, or RC recovery boat.

During the first run, drive the boat in calm wind and water to ensure that the boat is properly set up. Top speed is determined by the battery's ability to efficiently deliver power to the motor via the ESC.

1. Carefully place the boat in the water.

NOTICE: Never operate your boat in less than 12 inches (30.5 cm) of water.

2. Operate the boat at slow speeds near the shoreline. Avoid objects in the water at all times. When the boat is moving forward, ensure water flows out of the coolant outlet. Once you are comfortable operating the boat at slow speeds, it is safe to operate the boat farther from the shore at higher speeds.
3. Bring the boat back to shore when the speed is reduced. The LVC lowers the power and allows for minimal throttle settings while bringing the boat to shore.

In rough water and windy conditions, consider mounting the batteries further forward for added stability

NOTICE: When running at full speed in choppy water, the propeller may exit and re-enter the water repeatedly and very quickly, subjecting the propeller and flex shaft to some stress. Frequent stress may damage the propeller and flex shaft.

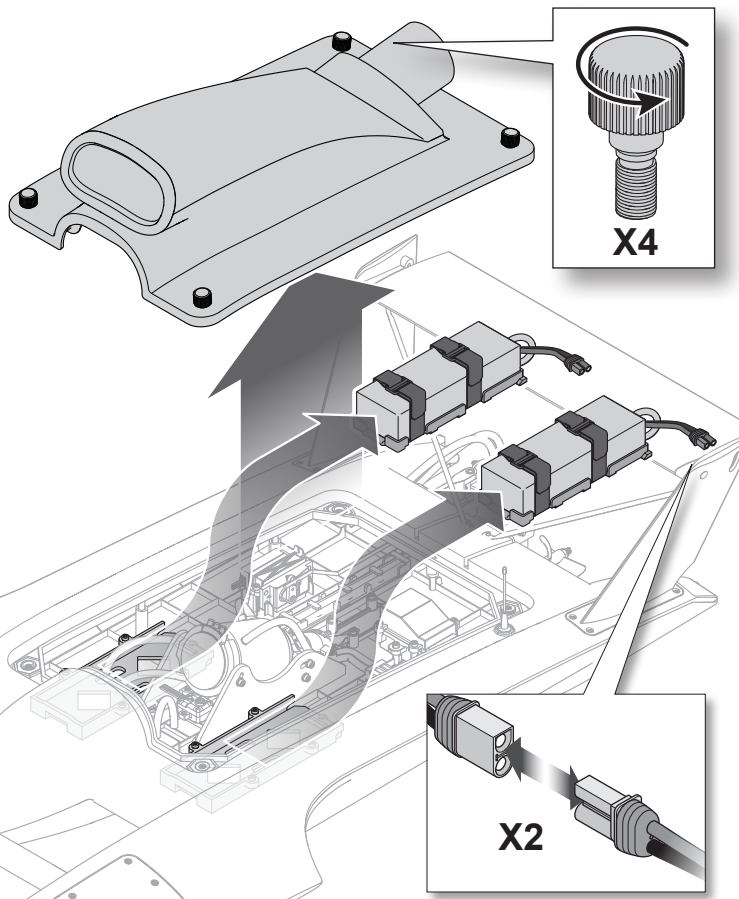
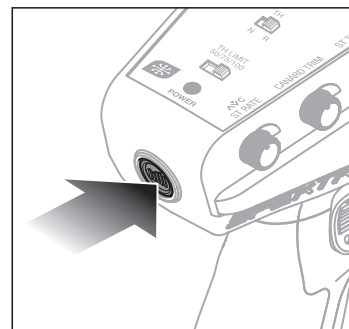
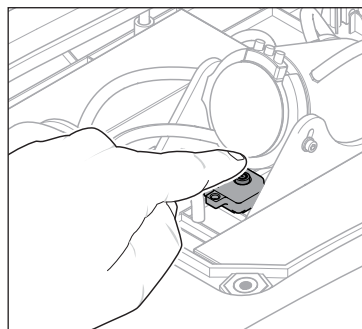
Avoid boating near:

- watercraft
- people (swimming areas, fishing areas)
- stationary objects
- waves and wakes
- rapidly moving water
- wildlife
- floating debris
- overhanging trees
- vegetation

When You Are Finished

1. Remove the canopy.
 2. Power OFF the ESC.
 3. Power OFF the transmitter.
 4. Disconnect the batteries, and remove them from the boat.
 5. Drain any water from inside the hull using the drain plug.
 6. Fully dry the inside and outside of the boat, including the water cooling lines and motor jacket.
 7. Leave the canopy off when storing the boat.
- TIP:** Removing the hatch before storage prevents mold and mildew from growing in the boat.
8. Repair any damage or wear to the boat.
 9. Lubricate the flex shaft using Pro Boat Marine Grease (PRB-3811).

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.



Maintenance

Motor Care

- Prolong motor life by preventing overheating conditions. Undue motor wear results from frequent turns, stops and starts, pushing objects, boating in rough water or vegetation and boating continuously at high speed.
- Over-temperature protection is installed on the ESC to prevent circuit damage, but cannot protect the motor from pushing against heavy resistance.

- Lubrication is important to prevent motor damage. If your motor gets wet, lubricate the busings supporting the motor shaft with light duty machine oil. Failure to do so can cause the motor shaft to seize against the motor bushings.



CAUTION: Do not touch the motor until it has had time to cool. It can become extremely hot when in use.

Water Cooling System

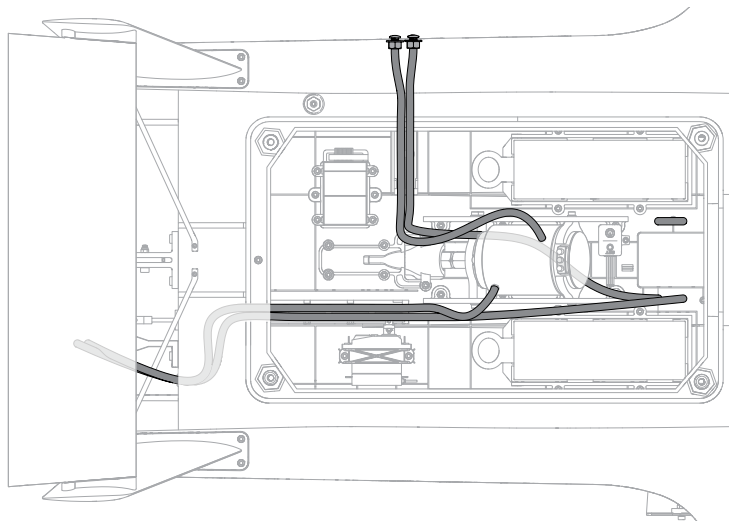
If water does not stream out of the right-side water outlets while the boat is moving forward, immediately stop the boat and clean the obstruction from the water-cooling system.

1. Disassemble and clean the water cooling system to remove blockage and prevent overheating.
2. Replace any damaged parts.

IMPORTANT: Ensure that the water cooling exit ports are securely attached to the outside of the hull. Failure to inspect this can result in excess water entering the hull.



CAUTION: Running a battery with less than 14.8V will not provide enough momentum to engage the water-cooling system and will cause damage to the electronics due to excessive heat.

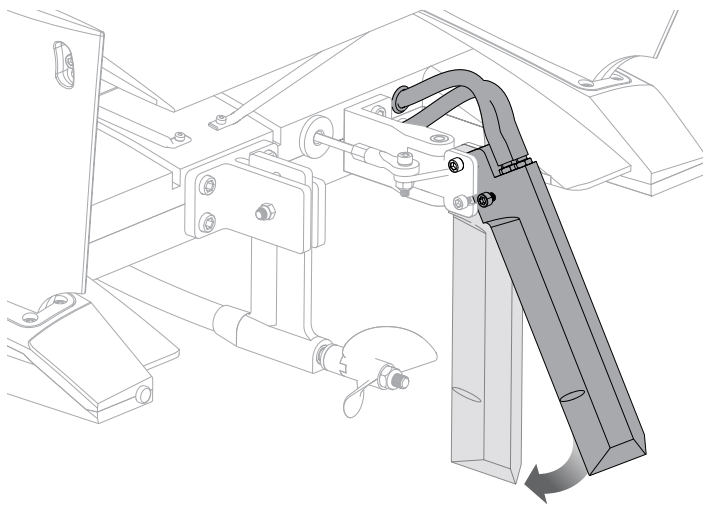


Rudder Service

The Hydroplane features a slotted rudder mount designed to swing out if it strikes a solid object.

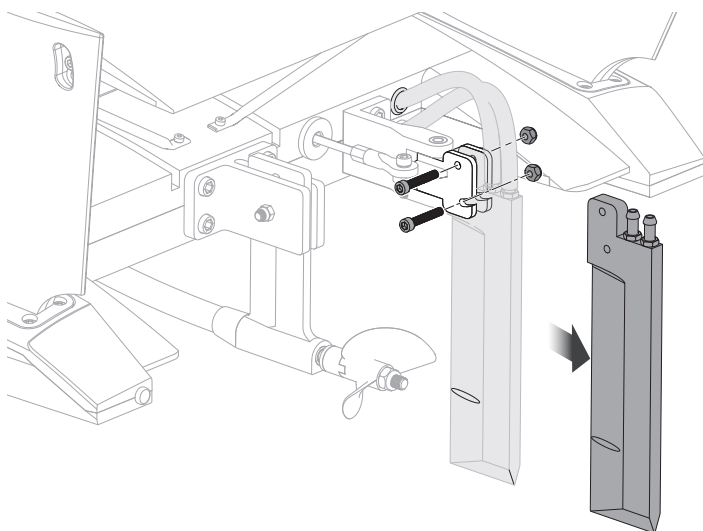
Break-Away

1. Push the rudder back into place.
2. Use a 2.5mm hex wrench and 5.5mm nut driver to tighten the screws.



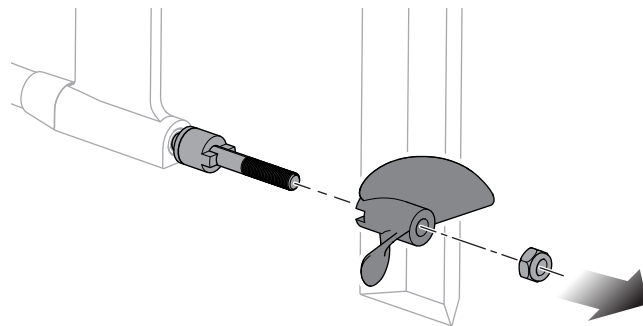
Removal

1. Disconnect the water cooling system tube from the rudder.
2. Use a 2.5mm hex wrench and 5.5mm nut driver to remove the 3mm nut and M3 x 13mm screw from the rudder arm.
3. Assemble in reverse order.



Propeller Service

1. Use an 8mm nut driver to loosen the nut from the driveshaft.
2. Remove the nut and propeller from the driveshaft.
3. Inspect the propeller for any damage or wear and replace as necessary.
4. Assemble in reverse order. Correctly align the propeller with the drive dog on the driveshaft.



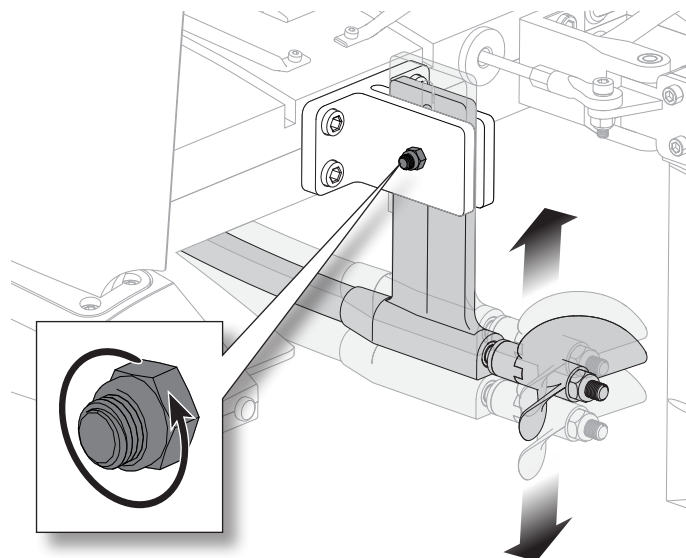
Propeller Angle Adjustment

Raising the drive strut increases speed, decreases steering response, and increases cavitation.

Lowering the drive strut increases steering response and sensitivity and decreases speed.

1. Use a 3mm hex driver and 7mm nut driver or wrench to loosen the drive strut nut and bolt.
2. Slide the drive strut up or down to adjust the angle of the propeller in relation to the hull.
3. Once you have selected the drive strut position, tighten the nut.

TIP: Use a scribe or sharp point to mark your preferred reference line at the bottom of the prop strut bracket.



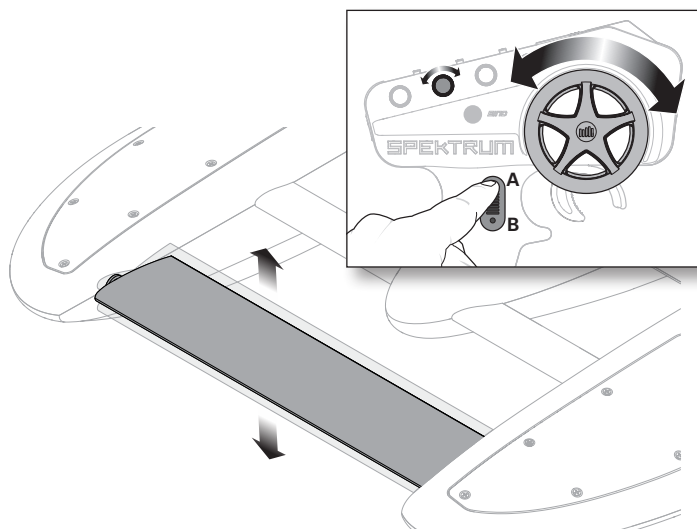
Wing Angle Adjustment

Adjust the front canard and rear wing to increase or reduce lift. Start with the canard/wing level, and adjust it based on how the boat behaves on the water.

Front Canard

Check for A and B button functionality.

1. Adjust the **Canard Trim** to neutral with slight downforce (trailing edge up).
2. Press the transmitter **Button A** to increase canard lift (less downforce).
3. Press the transmitter **Button B** to apply emergency full downforce.

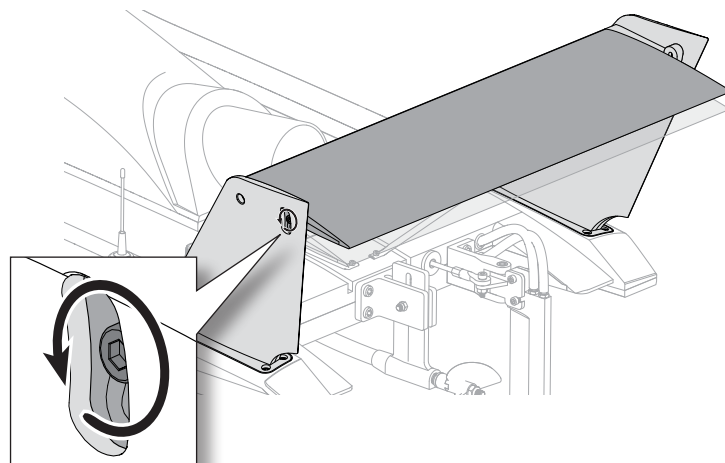


Rear Wing

1. Use a 3mm hex wrench to loosen the M3 x 12mm vertical fin screw.
2. Manually adjust the rear wing up or down to change the angle of the wing in relation to the hull.

Trailing Edge Down: Causes more rear lift, providing more forward weight to help keep the boat nose down at higher speeds.

Trailing Edge Up: Forces the rear end down, providing more planted and stable rear-end while lightening the front end to avoid blow over.



Turn Fin Adjustment

Horizontal

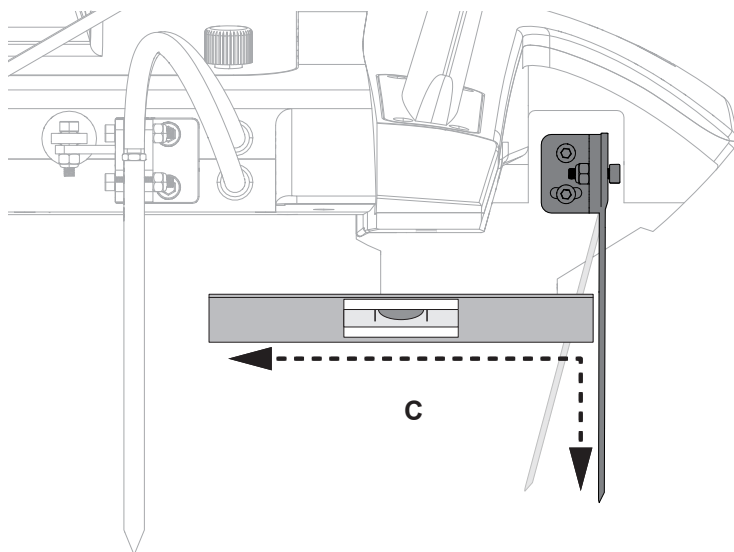
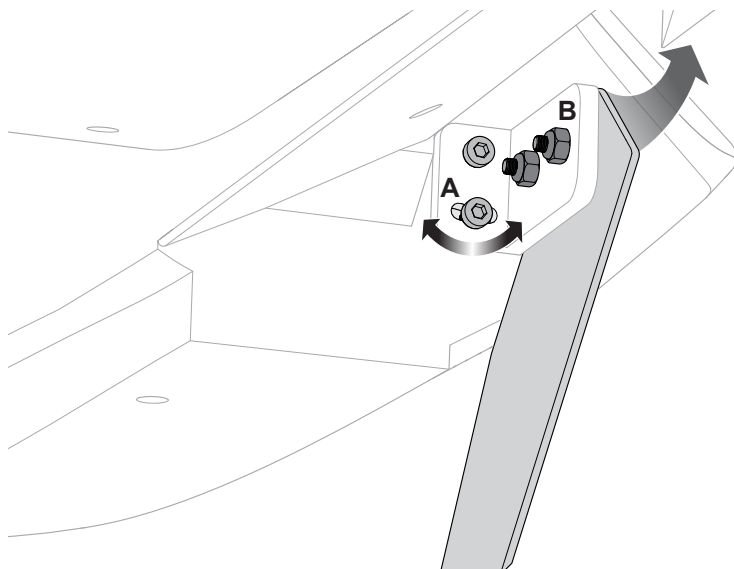
1. Use a 3mm hex wrench to loosen the bottom M3 turn fin bolt (**A**).
2. Slide the turn fin bracket right / left to the desired angle / height.
3. Re-tighten the turn fin bolt, and repeat on the other side.

Vertical

1. Use a 3mm hex wrench and 5.5mm nut driver to loosen the M3 turn fin bolt (**B**).
2. Slide the turn fin up / down to the desired angle and height.

TIP: Use a level (**C**) to set the turn fin at 90 degrees of the ride pad on the sponson.

3. Re-tighten the turn fin bolt, and repeat Steps 1 and 2 on the other side.



Optional Curved Turn Fin

Install and adjust the optional curved turn fin to enhance turning stability.

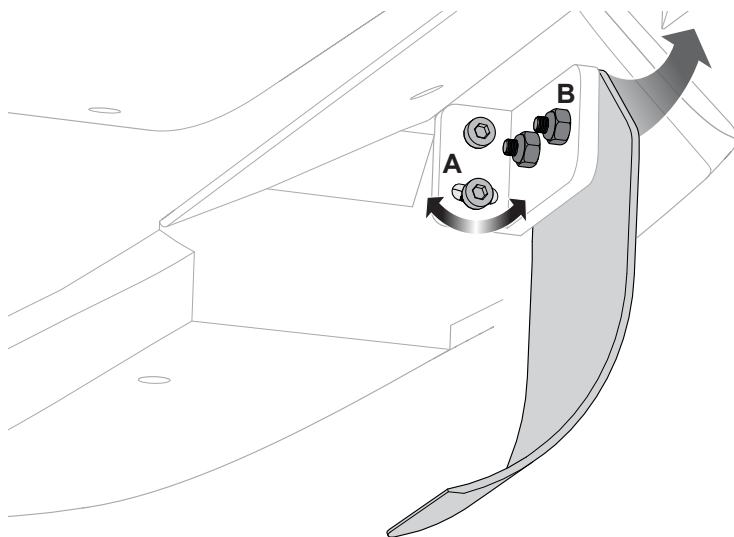
1. Use a 3mm hex wrench and 5.5mm nut driver to loosen the M3 turn fin bolt (**A**).
2. Remove the straight turn fin (starboard side).
3. Install the optional curved turn fin,
4. Adjust the curved turn fin.

Horizontal: Slide the curved turn fin right / left to the desired angle / height, and re-tighten the turn fin bolt (**A**).

Vertical: Slide the curved turn fin up / down to the desired angle / height, and re-tighten the turn fin bolt (**B**).

TIP: Use a level to set the turn fin at 90 degrees of the ride pad on the sponson.

5. Re-tighten the turn fin bolt.



Full Flex Shaft Lubrication

Remove, clean, and lubricate the flex shaft after every boating session. It is good practice to completely remove the flex shaft after a day of running to clean the old grease out and dry any water from the stuffing tube.

TIP: Use a scribe or fine tip screwdriver mark the propeller strut location before lubricating the flex shaft.

1. Loosen the two M3 x 10mm screws from the grease catch and lift it from the hull.
2. Loosen the flex shaft collet using two 12mm wrenches.
3. Remove the screw securing the propeller strut to the mounting bracket.
4. Slide the propeller strut back, and remove the propeller strut and flexshaft from the boat.

TIP: Twist the propeller slightly to disengage it from the motor collar.

5. Use a paper towel to remove old grease and water from the flex shaft and the bushing.
6. Remove the propeller nut, and slide the propeller from the shaft.
7. Use a 2.0mm driver to loosen the drive dog setscrew, and slide the drive dog off the propeller shaft.
8. Slide the propeller strut from the flex shaft, lubricate the propeller strut bearing.
9. Dry any water in the stuffing tube.
10. Use a Pro Boat grease gun (PRB-3811) to generously lubricate the bushing and the flex shaft.

TIP: Do not add grease to the last 2 inches of the flex shaft. This allows for a better grip inside the collet and prevents the flex shaft from loosening while boating.

11. Carefully reinstall the flex shaft and the drive strut into the stuffing tube and collet.

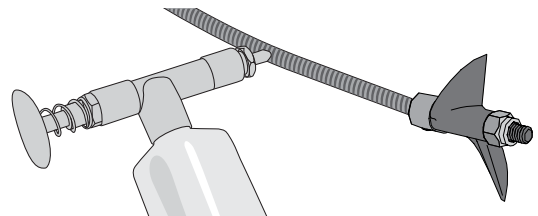
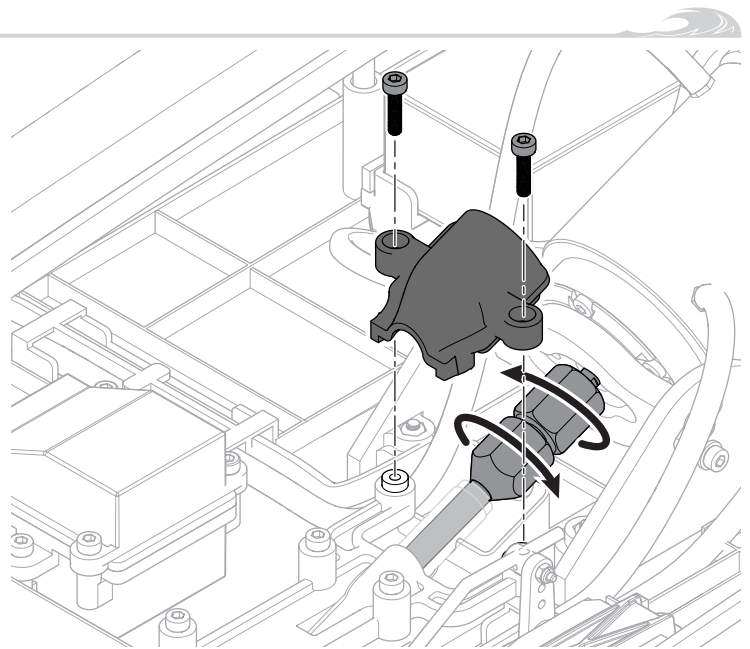
TIP: Ensure the flex shaft is fully seated into the collet. If the flex shaft is difficult to remove or install, use a flathead screwdriver to spread the collet grips.

TIP: If the flex shaft is not perfectly aligned with the collet, add shims to the stuffing tube support to center the flex shaft with the collet.

TIP: Ensure there is a 1–2mm gap between the drive strut and drive dog to allow for flex shaft shrinkage under load.

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. Running RC boats in saltwater is at the discretion of the modeler.

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



Replacement Parts

Part #	Description
PRB286056	Motor Coupler 5mm (Motor) / 4.7mm (Flexshaft)
PRB286091	Water Cooling Lines
PRB286108	Water Cooling Line Set
PRB-4055	Vertical Fins
PRB-4056	Propeller Strut Set
PRB-4057	Front Canard
PRB-4058	Propeller
PRB-4059	Turn Fin Mounting Bracket
PRB-4060	Turn Fin, Curved
PRB-4061	Turn Fin, Straight
PRB-4062	Flex Shaft Set
PRB-4063	Rear Horizontal Stabilizer
PRB-4064	Battery Strap Set, 3-4S
PRB-4065	Front Hatch Set
PRB-4066	Hull Seal Set
PRB-4067	Rudder Pushrod Set
PRB-4068	Rudder Set
PRB-4069	Canopy
PRB-4070	Stuffing Tube Set
PRB-4071	Canard Servo Pushrod Set
PRB-4072	Motor Mount Set
PRB-4073	Receiver Box Set
PRB-4074	Propeller Mounting Hardware
PRB-4075	Hull
PRB-4076	Propeller Strut Bushing
PRB-4817	Canopy Thumb Screw Set
SPMR2355	DX3 Smart DSMR ProBoat Hydroplane Transmitter Only
SPMS605HV	S605 Standard HV Waterproof 9KG 23T Metal Gear Surface Servo
SPMXMM1000	Spektrum 4685 4-Pole Brushless Marine Motor 1350Kv
SPMXSE1160M	Firma 160A Smart Brushless Marine ESC 3S - 8S

Recommended Parts

Part #	Description
SPMX54S100H5	14.8V 5000mAh 4S 100C Smart G2 Hardcase LiPo Battery: IC5
SPMXC2000	S2100 G2 2x100W AC Smart Charger
SPMXC2010	S2200 G2 AC 2x200W Smart Charger
SPMXC2060	S250 AC 2x50W Smart Charger
SPMXPSS850	Smart Powerstage 8S Surface Bundle: (2) G2 5000mAh 4S LiPo IC5 & S2100 Charger

Optional Parts

Part #	Description
DYNAM0102	Clear Flexible Marine Tape (18M)
DYNT0502	Start Up Tool Set
PRB-1658	Universal Propeller Cover
PRB-3811	Marine Grease with Injector
PRB-3812	Marine Grease Refill
SPM6130	DXC+ 12-Channel DSMR+ Transmitter with SR615 Receiver
SPM6425	iXSR+ 12-Channel DSMR+ Transmitter with SR515 Receiver
SPMSS6240	S6240 Standard Digital High Speed Waterproof Metal Gear Surface Servo
SPMX54S100H5	14.8V 5000mAh 4S 100C Smart G2 Hardcase LiPo Battery: IC5
SPMX50004S100H5	14.8V 5000mAh 4S 100C Smart Hardcase LiPo Battery: IC5
SPMXBC200	XBC200 Smart Lipo Battery Checker & Servo Tester
SPMXC3040	S450 G2 AC/DC Smart Charger 4x50W

Hardware

Quantity	Description
3	M3 x 3 Cup Point Set Screw, Stainless Steel
2	M3 x 4 Cup Point Set Screw, Stainless Steel
1	M4 x 3 Cup Point Set Screw, Stainless Steel
3	M4 x 4 Cup Point Set Screw, Stainless Steel
12	M3 Washer
2	M4 Washer
18	M3 Nylon Lock Nut, Stainless Steel
7	M4 Nylon Lock Nut, Stainless Steel
1	M5 Nylon Lock Nut, Stainless Steel
20	M2 x 4 Button Head Cross Screw, Stainless Steel
8	M2 x 6 Button Head Cross Screw, Stainless Steel
44	M3 x 10 Button Head Cross Screw, Stainless Steel

Quantity	Description
4	M2 x 8 Cap Head Screw, Stainless Steel
18	M3 x 8 Cap Head Screw, Stainless Steel
9	M3 x 10 Cap Head Screw, Stainless Steel
26	M3 x 12 Cap Head Screw, Stainless Steel
5	M3 x 14 Cap Head Screw, Stainless Steel
2	M3 x 18 Cap Head Screw, Stainless Steel
2	M4 x 12 Cap Head Screw, Stainless Steel
6	M4 x 14 Cap Head Screw, Stainless Steel
1	M4 x 20 Cap Head Screw, Stainless Steel
16	M2.5 x 10 Flat Head Screw, Stainless Steel
1	M3 x 8 Button Head Screw, Stainless Steel

Troubleshooting Guide

Problem	Possible Cause	Solution
Boat does not respond to throttle but responds to other controls	Throttle channel is reversed	Reverse throttle channel on transmitter
Extra noise or extra vibration	Damaged propeller, shaft or motor	Replace damaged parts
	Propeller is out of balance	Balance or replace propeller
	Boat squeals or makes a high pitch sound when applying power to the motor	Lubricate flex shafts
Reduced runtime or boat underpowered	Boat battery charge is low	Completely recharge battery
	Boat battery is damaged	Replace boat battery and follow battery instructions
	Blocking or friction on shaft or propeller	Disassemble, lubricate and correctly align parts
	Boat conditions may be too cold	Make sure the battery is warm (above 10° C [50° F]) before use
	Battery capacity may be too low for conditions	Replace battery or use a larger capacity battery
	Drive dog is too near the stuffing tube	Loosen drive shaft side of the motor coupling and move drive shaft small amount back
	Too little lubrication on drive shaft	Fully lubricate drive shaft
	Vegetation or other obstacles block the rudder or propeller	Remove vegetation or obstacles from rudder or propeller
	Motor couplers are loose	Tighten motor couplers and ensure the coupler is free of lubrication
Boat will not bind (during binding) to transmitter	Transmitter is too near boat during binding process	Move powered transmitter a few feet from boat, disconnect and reconnect battery to boat
	Boat or transmitter is too close to large metal object, wireless source or another transmitter	Move the boat and transmitter to another location and attempt binding again
	Another compatible transmitter is powered on within range of the receiver	Power off all compatible transmitters except the one you are trying to bind
	Incorrect binding protocol set	Verify binding procedure and use SLT binding for stock radio. If using a DSMR or DSM2 utilize the standard binding procedure listed in the manual
	Boat battery/transmitter battery charge is too low	Replace/recharge batteries
	ESC switch is off	Power on ESC switch
Boat will not connect (after binding) to transmitter	Transmitter is too near boat during connecting process	Move powered transmitter a few feet from boat, disconnect and reconnect battery to boat
	Boat or transmitter is too close to large metal object, wireless source or another transmitter	Move boat or transmitter to another location and attempt to connect again
	Boat battery/transmitter battery charge is too low	Replace/recharge batteries
	ESC switch is off	Power on ESC switch
Boat tends to dive in the water or takes on water	Boat hull is not completely closed	Dry out the boat and ensure the hatch is fully closed on the hull before returning the boat to the water
	Trim tabs are adjusted too deep	Adjust trim tabs up
	Center of gravity is too far forward	Move batteries back in the hull
Boat tends to turn one direction	Rudder or rudder trim is not centered	Repair rudder or adjust rudder and rudder trim for straight running when control is at neutral
	Break away screw is damaged or broken	Replace damaged screw
Rudder does not move	Rudder, linkage or servo damage	Replace or repair damaged parts and adjust controls
	Steering servo wire is damaged or connections are loose	Do a check of steering servo wires and connections, connect or replace as needed
	Transmitter is not bound correctly	Re-bind
	BEC of the ESC is damaged	Replace ESC
	ESC switch is off	Power on ESC switch
Controls reversed	Transmitter settings are reversed	Do the Control Direction Test and adjust controls on transmitter appropriately

Problem	Possible Cause	Solution
Motor overheats	Blocked water cooler tubes	Clean or replace water tubes
Motor power pulses then motor loses power	ESC uses default soft Low Voltage Cutoff (LVC)	Recharge boat battery or replace battery that is no longer performing
	Weather conditions might be too cold	Postpone until weather is warmer
	Battery is old, worn out or damaged	Replace battery
Boat blows over upon acceleration	Batteries are too far back in the battery tray	Move the batteries forward to adjust the boat's center of gravity
	Struts have too much positive angle, causing the nose of the boat to lift and blow over	Adjust a more neutral or negative strut angle
	Trim Tabs not adjusted, causing the nose of the boat to lift and blow over	Adjust the trim tabs further into the water to keep the nose of the boat in the water and provide additional stability
	Water conditions are too choppy or windy	Adjust the struts downward to drive the bow of the boat down or move the batteries further forward for better weight distribution

2-Year 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 for two years from 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 LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

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

Non-Warranty Service — Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost.

By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon

request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and 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.

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Warranty and Service Contact Information*

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	2904 Research Rd. Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 877-504-0233	
	Sales	websales@horizonhobby.com 800-338-4639	
EU	Horizon Technischer Service	service@horizonhobby.de	Hanskampring 9 D 22885 Barsbüttel, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	

*For the most up-to-date customer service contact information, please visit: www.horizonhobby.com/content/service-center-render-service-center

FCC Information

FCC ID: Contains 6157A-KATY1T

FCC ID: Contains BRWSRIRVINGV1

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and/or antenna and your body (excluding fingers, hands, wrists, ankles and feet). This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Supplier's Declaration of Conformity

Pro Boat Miss Illinois U-34 34" Brushless Hydro Boat RTR (PRB-2072): 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Horizon Hobby, LLC

2904 Research Rd.

Champaign, IL 61822

Email: compliance@horizonhobby.com

Web: HorizonHobby.com

IC Information

CAN ICES-3 (B)/NMB-3(B)

IC: Contains 6157A-KATY1T & BRWSRIRVINGV1

This device contains license-exempt transmitter(s)/receivers(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following 2 conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Information for the European Union



EU Compliance Statement:

Pro Boat Miss Illinois U-34 34" Brushless Hydro Boat RTR (PRB-2072): Hereby, Horizon Hobby, LLC declares

that the device is in compliance with the following: EU Radio Equipment Directive (RED) 2014/53/EU; RoHS 2 Directive 2011/65/EU; RoHS 3 Directive - Amending 2011/65/EU Annex II 2015/863.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.horizonhobby.com/content/support-render-compliance>.

NOTE: This product contains batteries that are covered under the 2006/66/EC European Directive, which cannot be disposed of with normal household waste. Please follow local regulations.

Wireless Frequency Range and Wireless Output Power:

Transmitter:

2402.0 - 2478.0 MHz

17.7 dBm

Receiver:

2404 - 2476MHz

-1.33dBm

EU Manufacturer of Record:

Horizon Hobby, LLC

2904 Research Road

Champaign, IL 61822 USA

EU Importer of Record:

Horizon Hobby, GmbH

Hanskampring 9

22885 Barsbüttel Germany

WEEE NOTICE:



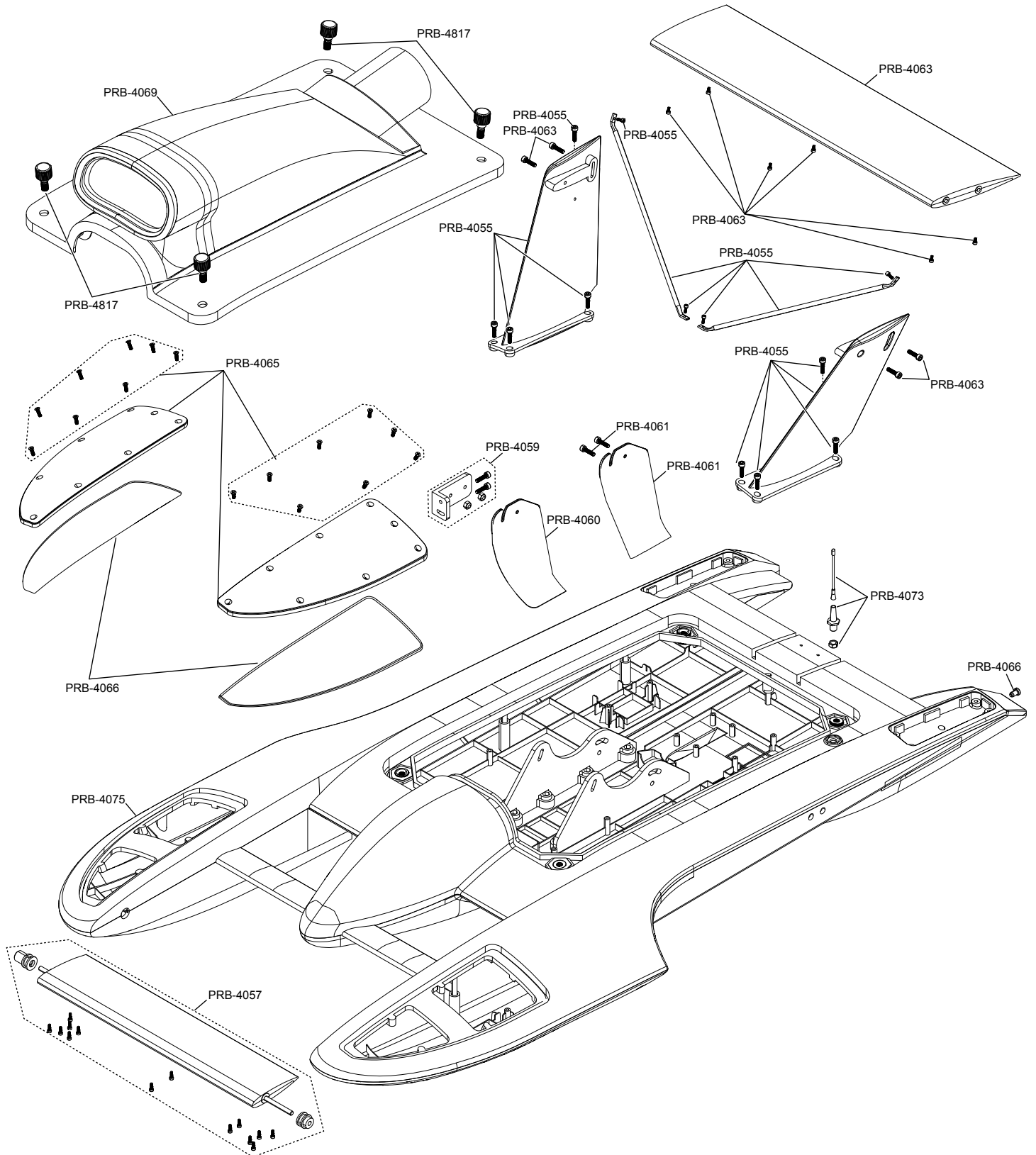
This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste.

It should be deposited at an appropriate facility to enable recovery and recycling.



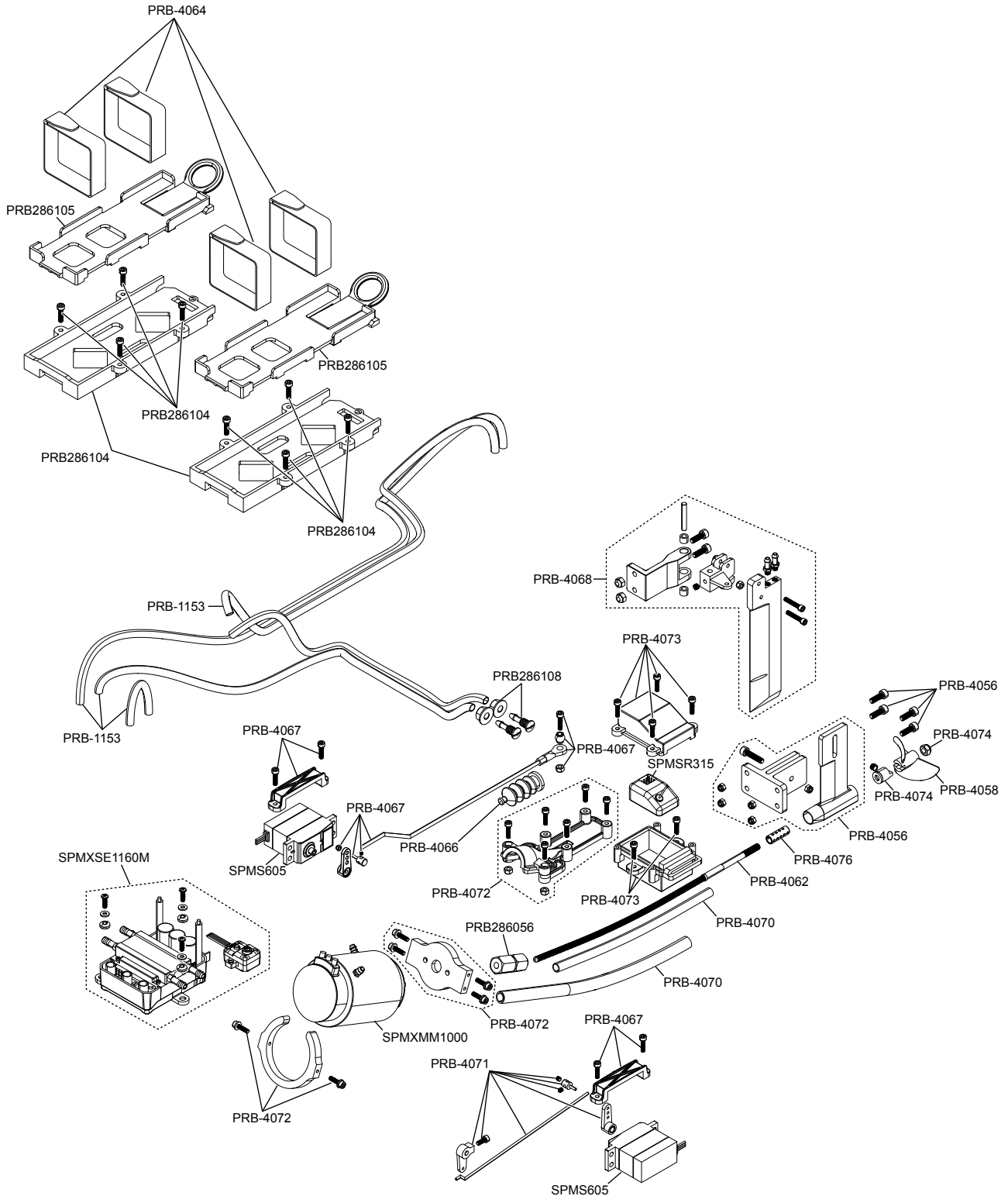
U-34 34" BRUSHLESS HYDROPLANE BOAT RTR

EXPLODED VIEWS // EXPLOSIONSZEICHNUNG // VUES ÉCLATÉES // VISTA ESPLOSA



U-34 34" BRUSHLESS HYDROPLANE BOAT RTR

EXPLODED VIEWS // EXPLOSIONSZEICHNUNG // VUES ÉCLATÉES // VISTA ESPLOSA





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Other patents pending.

Created 04/2026

PRB-2072

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