

Pro Boat PRB282046



Pro Boat UL 19 30-inch Hydroplane Flex Shaft Instruction Manual

MODEL: PRB282046

1. Introduction and Overview

This manual provides essential information for the proper installation, operation, and maintenance of your Pro Boat Flex Shaft, designed for the UL 19 30-inch Hydroplane. The flex shaft is a critical component of your RC boat's drivetrain, transmitting power from the motor to the propeller. Adhering to these instructions will help ensure the longevity and optimal performance of your model.

2. Safety Information

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. 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. The product manual contains instructions for safety, operation, and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

3. What's in the Box

Your package includes the following components:

- Flex Shaft: UL-19



This image shows the Pro Boat Flex Shaft (PRB282046) for the UL 19 30-inch Hydroplane. It includes the flexible shaft, a nut, and washers, which are essential components for the boat's drivetrain.

4. Installation

Proper installation of the flex shaft is crucial for the performance and safety of your RC hydroplane. Follow these steps carefully:

1. **Preparation:** Ensure the boat is powered off and the battery is disconnected. Remove the propeller and any existing flex shaft components.
2. **Lubrication:** Apply a generous amount of marine-grade grease to the entire length of the new flex shaft. This reduces friction and prevents corrosion.
3. **Insertion:** Carefully slide the greased flex shaft into the stern tube from the rear of the boat. Ensure it seats correctly into the collet or coupler on the motor shaft.
4. **Secure Connection:** Tighten the collet or coupler screw securely onto the motor shaft, ensuring the flex shaft is firmly held.
5. **Propeller Installation:** Reinstall the propeller onto the threaded end of the flex shaft. Use the provided nut and washers, tightening them firmly but without overtightening to avoid damaging the propeller or shaft.
6. **Alignment Check:** Verify that the flex shaft rotates freely without binding. Any resistance could indicate improper alignment or insufficient lubrication.

Refer to your UL 19 30-inch Hydroplane's main instruction manual for specific diagrams and additional details regarding the drivetrain assembly.

5. Operation Considerations

While the flex shaft itself does not have operational controls, its proper function is integral to the boat's operation. Ensure the flex shaft is always well-lubricated before each use to prevent wear and tear. Avoid operating the boat in conditions that could cause excessive strain on the drivetrain, such as heavy debris

or prolonged high-speed runs without adequate cooling.

6. Maintenance

Regular maintenance of your flex shaft will extend its lifespan and maintain peak performance:

- **Lubrication:** After every 2-3 runs, or if the boat has been stored for an extended period, remove the flex shaft and re-lubricate it with marine-grade grease.
- **Inspection:** Periodically inspect the flex shaft for any signs of wear, kinks, or corrosion. Replace the shaft if any damage is observed.
- **Cleaning:** After each use, especially in saltwater, rinse the flex shaft and stern tube with fresh water to remove any salt or debris.
- **Storage:** Store the flex shaft in a clean, dry environment. If storing the boat for a long time, remove the flex shaft, clean, lubricate, and store it separately.

7. Troubleshooting

If you encounter issues related to the flex shaft, consider the following:

- **Loss of Power/Vibration:** This could indicate a damaged or worn flex shaft, insufficient lubrication, or a loose connection to the motor or propeller. Inspect, lubricate, and tighten connections.
- **Overheating:** Excessive friction due to lack of lubrication can cause the flex shaft and surrounding components to overheat. Ensure proper and regular lubrication.
- **Propeller Not Spinning:** Check if the flex shaft is properly seated in the motor collet and if the propeller nut is secure.

If problems persist, consult a qualified RC hobby technician or contact Pro Boat customer support.

8. Specifications

Brand	Pro Boat
Model Number	PRB282046
Included Components	Flex Shaft: UL-19
Material	Plastic
Item Weight	1.6 ounces
UPC	605482085752
Manufacturer	Horizon Hobby
Item Type Name	RC Boat
Power Source	Battery Powered (for associated boat)

9. Warranty and Support

This product is warranted to be free from manufacturer defect upon receipt by the original owner. For warranty claims or technical support, please contact Horizon Hobby, LLC. You can find more information

and support resources on the official [Pro Boat Store](#).