

WLtoys WL916

WLtoys WL916 RC Boat Instruction Manual

Model: WL916

1. INTRODUCTION

Thank you for purchasing the WLtoys WL916 RC Boat. This high-speed racing boat is designed for thrilling aquatic adventures, featuring a brushless motor, water-cooled heat dissipation, and advanced control functions. To ensure safe operation and maximize the lifespan of your product, please read this instruction manual thoroughly before use and retain it for future reference.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x WLtoys WL916 RC Boat
- 1x Lithium Polymer Battery (as chosen at purchase)
- 1x Remote Controller
- 1x USB Charging Cable
- 1x Boat Holder Set
- 1x Instruction Manual
- 1x M3 Hex Screwdriver
- 1x M4 Hex Screwdriver
- 1x M4 Hex Socket



Image: The WLtoys WL916 RC Boat, remote controller, battery, charging cable, boat stand, and tools, all neatly arranged next to its product box.

3. SAFETY GUIDELINES

Operating an RC boat requires attention to safety. Please observe the following guidelines:

- **Age Recommendation:** This product is recommended for users 14 years and up.
- **Water Safety:** Operate the boat only in open water areas free from obstacles, swimmers, or wildlife. Avoid strong currents or high winds.
- **Battery Handling:** Use only the specified Lithium Polymer battery. Do not overcharge, puncture, or expose batteries to extreme temperatures. Always charge under supervision.
- **Remote Control Range:** Be aware of the remote control's range to prevent loss of control.
- **Moving Parts:** Keep fingers, hair, and loose clothing away from the propeller when the boat is powered on.
- **Low Voltage Alarm:** Pay attention to the low voltage alarm from the remote control and return the boat to shore immediately to prevent loss of power in the water.



Image: A warning label indicating small parts and choking hazard, not suitable for children under 3 years, and other safety icons.

4. PRODUCT OVERVIEW AND FEATURES

The WLtoys WL916 RC Boat is engineered for high-performance and durability. Key features include:

- **High-Speed Performance:** Equipped with a brushless motor and brushless ESC, achieving speeds of approximately 55 KM/H.
- **Water Cooling System:** Integrated water-cooled heat dissipation for the motor and ESC ensures stable performance and extended lifespan.
- **Durable Design:** The hull is constructed from ABS plastic with a streamlined design to reduce water resistance.
- **Capsize Recovery:** Features a self-righting function to easily flip the boat back over if it capsizes.
- **Low Voltage Alarm:** The remote control provides an alarm signal when the battery is low, prompting you to return the boat.
- **Waterproof Design:** The waterproof cover protects internal components from water ingress.
- **2.4GHz Remote Control:** Provides a stable and interference-free control signal.

TOTAL LENGTH
46.7

SPEEDBOAT

>> 55Km/h

Speedboat.
>> 2.4GHz Remote Control System

HIGH SPEED

>>> SUPER RACING BOAT.
Simulation yacht shape, strong magnetic power, the use of water cooling system heat dissipation life longer.
Full proportional forward left and right steering function, the size of the rudder
adjustment left and right steering fine-tuning adjustment.

High speed
brushless motor

Feature.

| | | |
|---------------------------------|-----------------|------------------------------|
| 55KM/H | BRUSHLESS MOTOR | WATER CIRCULATION COOLING |
| AUTOMATIC ANTI-TILT FUNCTION | REPLACE BATTERY | WATER PROOF |

Image: A detailed view of the WLtoys WL916 RC Boat, emphasizing its 55 KM/H speed, 2.4GHz remote control system, and brushless motor.



Image: Close-up showing the crash-protected shield at the bow and the adjustable rudder mechanism for precise steering.

>> 55K/h

Water Cooling System.

2216
HIGH SPEED
BRUSHLESS MOTOR



TOTAL LENGTH
46.7

>>> High speed brushless motor with water cooling and heat dissipation and brushless electric adjustment, full power and longer life, more stable performance, to ensure the ultimate use of power and prolong the life of products

>> 55km/h

Brushless Electric Machine.

11.1V
1800MAH
45C

2216



>>>

Brushless external motor, speed up to 55km/h.
No brush, full power, longer life, more stable performance.

BRUSHLESS MOTOR
2.4GHz
Remote Control System

Image: The boat's water cooling system, crucial for maintaining optimal motor and ESC temperatures during high-speed operation.



Image: Diagram illustrating the self-righting mechanism, allowing the boat to automatically return to an upright position after capsizing.

5. SETUP AND PREPARATION

5.1 Charging the Boat Battery

1. Connect the Lithium Polymer battery to the USB charging cable.
2. Plug the USB charging cable into a suitable USB power source (e.g., computer USB port, USB wall adapter).
3. The indicator light on the USB cable will show the charging status (refer to the charger's specific instructions for light indications).
4. Once fully charged, disconnect the battery from the charger. Do not leave unattended during charging.

5.2 Installing Remote Controller Batteries

The remote controller requires 4x AA batteries (not included). Open the battery compartment on the back of the remote controller and insert the batteries, ensuring correct polarity. Close the compartment securely.

5.3 Installing the Boat Battery

1. Carefully remove the boat's top cover.
2. Connect the charged Lithium Polymer battery to the boat's power connector.

3. Secure the battery within the compartment to prevent movement during operation.
4. Replace the boat's top cover, ensuring it is properly sealed to maintain waterproofing.

5.4 Pairing the Remote Controller and Boat

1. Turn on the remote controller. The indicator light will likely flash.
2. Place the boat in the water. The boat's receiver will automatically search for the remote control signal.
3. Once paired, the indicator lights on both the remote controller and the boat will become solid, indicating a successful connection.

6. OPERATING YOUR RC BOAT

Familiarize yourself with the remote control functions before operating the boat in open water.

6.1 Basic Controls

- **Throttle Trigger:** Pull to move forward, push to move backward.
- **Steering Wheel:** Turn left to steer the boat left, turn right to steer the boat right.

6.2 Advanced Functions

- **Rudder Volume Adjustment:** Adjust the rudder's turning radius for sharper or wider turns.
- **Steering Fine-Tuning:** Use the trim buttons on the remote to adjust steering if the boat does not track straight.
- **Capsize Recovery:** If the boat flips over, use the designated capsize recovery function on the remote (refer to remote manual for specific button) to right the boat.
- **Cool Lighting:** The boat features cool lighting for enhanced visibility and aesthetics, especially during evening operation.

Your browser does not support the video tag.

Video: A review of the WLtoys W916 RC Boat, demonstrating its features and operation on water.

7. MAINTENANCE AND CARE

Proper maintenance will extend the life and performance of your RC boat:

- **After Each Use:** Dry the boat thoroughly with a soft cloth. Remove the battery and allow the internal compartments to air dry.
- **Cleaning:** Clean any debris from the propeller, rudder, and water intake/outlet. Use fresh water to rinse off any salt or dirt.
- **Lubrication:** Periodically lubricate moving parts such as the propeller shaft (refer to specific product diagrams if available).
- **Storage:** Store the boat and remote control in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the remote control during long-term storage.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|--|--|---|
| Boat does not respond to remote. | Low battery in boat or remote; Not paired; Out of range. | Charge boat battery, replace remote batteries; Repair boat and remote; Bring boat closer to remote. |
| Boat runs slowly or loses power quickly. | Low boat battery; Propeller obstructed. | Recharge boat battery; Clear any debris from the propeller. |
| Boat does not steer straight. | Steering trim needs adjustment; Rudder damaged. | Adjust steering trim on remote; Inspect rudder for damage. |
| Boat capsizes frequently. | Rough water conditions; Incorrect speed for turns. | Operate in calmer water; Reduce speed during turns; Use capsize recovery. |

9. TECHNICAL SPECIFICATIONS

- **Model:** WL916
- **Brand:** WLtoys
- **Product Dimensions:** 5.51 x 5.12 x 183.46 inches
- **Item Weight:** 2.2 pounds
- **Max Speed:** Approximately 55 KM/H
- **Motor Type:** Brushless
- **Battery:** 1 Lithium Polymer battery required (included)
- **Remote Control Frequency:** 2.4GHz
- **Recommended Age:** 14 years and up
- **Manufacturer:** WLTOYS

10. WARRANTY AND SUPPORT

For warranty information, returns, or technical support, please refer to the retailer's policy where the product was purchased or contact WLtoys customer service directly. Keep your purchase receipt as proof of purchase.