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ALPHAREV R608

ALPHAREV R608 Brushless RC Boat User Manual

Model: R608

1. INTRODUCTION

Thank you for purchasing the ALPHAREV R608 Brushless RC Boat. This high-performance remote control boat is designed for use in pools and lakes, offering speeds of 30+ MPH. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your RC boat. Please read it thoroughly before first use.



Image: The ALPHAREV R608 RC boat, its remote control, and a brushless motor component, highlighting the core elements of the product.

2. SAFETY PRECAUTIONS

- Always operate the boat in open water areas, away from swimmers, wildlife, and obstacles.
- Do not operate in saltwater.
- Ensure the boat's hatches are securely closed before placing it in water to prevent water ingress.
- Keep fingers, hair, and loose clothing away from the propeller when the boat is powered on.
- Adult supervision is recommended for users under 14 years of age.
- Disconnect the battery from the boat when not in use and during charging.
- **Warning:** The water cooling system outlet can become hot. Avoid touching it immediately after operation to prevent burns.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x R608 RC Boat
- 1 x 2.4 GHz Transmitter
- 1 x 3S 11.1V/2000mAh Li-ion Battery
- 1 x USB Charging Cable
- 1 x Nose Guard
- 1 x Spare Propeller and Tool
- 1 x User Manual (this document)
- 1 x Display Stand



Image: A visual representation of all components included in the ALPHAREV R608 RC Boat package, including the boat, remote, battery, charger, and accessories.

4. PRODUCT OVERVIEW

4.1 RC Boat Components



Image: An exploded view diagram illustrating the internal components and hull structure of the ALPHAREV R608 RC boat, highlighting the battery, motor, and water cooling system.

The R608 features a robust hull design with a triple-hatch system for improved waterproofing. It is equipped with a powerful brushless motor and an advanced water cooling system to ensure stable performance and extended life.

4.2 2.4 GHz Radio Control Transmitter

2.4 GHZ RADIO CONTROL



Image: A detailed diagram of the 2.4 GHz radio control transmitter, with labels pointing to the antenna, steering trim, LED lights, speed switch, power switch, and battery cover.

The 2.4 GHz transmitter provides a stable connection and allows for multiple boats to operate simultaneously without interference. Key controls include:

- **Steering Trim:** Adjusts the boat's steering to maintain a straight course.
- **LED Lights:** Indicates power and connection status.
- **Speed Switch:** Adjusts the boat's speed settings.
- **Power Switch:** Turns the transmitter on/off.
- **Steering Wheel:** Controls left and right turning.
- **Trigger:** Controls forward (pull), brake (neutral), and backward (push) movement.

5. SETUP

5.1 Charging the Boat Battery

The boat uses a 3S 11.1V/2000mAh Li-ion battery. Use the provided USB charging cable.

1. Connect the battery to the USB charging cable.
2. Plug the USB cable into a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The red light on the charger will stay lit during charging.
4. The red light will turn off when the battery is fully charged. Charging typically takes 4 to 6 hours.
5. Do not leave the battery charging unattended.



Image: A visual guide demonstrating the process of charging the large capacity 11.1V 2000mAh battery for the RC boat.

5.2 Installing Batteries in the Transmitter

The transmitter requires 4 x AA batteries (not included).

1. Open the battery cover on the back of the transmitter.
2. Insert 4 AA batteries, ensuring correct polarity (+/-).
3. Close the battery cover securely.

5.3 Installing the Boat Battery

1. Open the boat's top hatch.
2. Connect the fully charged battery to the boat's power connector.
3. Place the battery securely inside the battery compartment.
4. Ensure all internal wiring is clear of moving parts and securely close all hatches to prevent water entry.

6. OPERATING INSTRUCTIONS

6.1 Pairing the Transmitter and Boat

1. Ensure the boat battery is connected and the boat's power switch is ON.
2. Turn on the transmitter. The transmitter's LED light will blink.

3. Once the boat and transmitter are successfully paired, the transmitter's LED light will become solid.

6.2 Basic Controls

- **Forward:** Pull the trigger towards you.
- **Brake:** Release the trigger to the neutral position.
- **Backward:** Push the trigger away from you.
- **Turn Left/Right:** Rotate the steering wheel left or right.

6.3 Self-Righting Function

The ALPHAREV R608 features a self-righting hull design. If the boat capsizes during operation, it will automatically flip back upright without any manual intervention.



Image: A sequence showing the ALPHAREV RC boat capsizing and then automatically righting itself in the water, demonstrating its self-righting function.

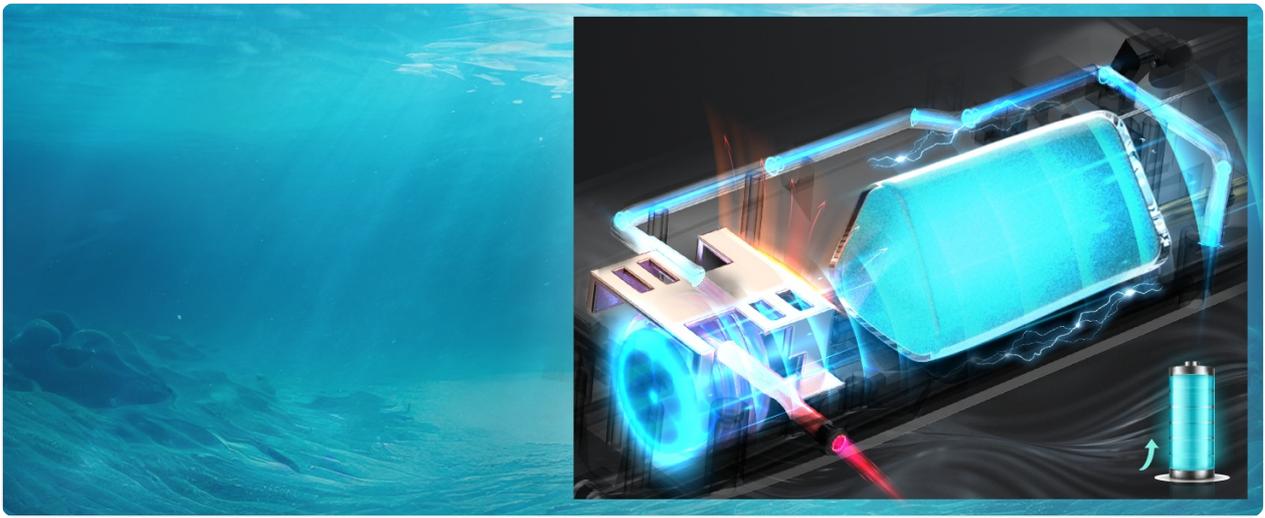


Image: An illustration detailing the 'Tumbler' design concept of the self-righting hull, showing how the boat automatically flips when capsized.

6.4 Water Cooling System

The boat is equipped with an advanced water cooling system that circulates water through the motor to dissipate heat, extending the life of the motor and ensuring stable performance.



Image: A diagram showing the internal workings of the water cooling system, with water flowing around the brushless motor to cool it during operation.

6.5 Low Battery Warning

The transmitter will emit an alarm and its LED light will flash when the boat's battery is low, indicating it's time to return the boat to shore for recharging.

**READY TO RUN
EVERYTHING IS INCLUDED!**

Package List

- 1 x R608 RC BOAT
- 1 x 2.4 GHz Transmitter
- 1 x 3S 11.1V/2000mAh Li-ion Battery
- 1 x USB Charging Cable
- 1 x Nose Guard
- 1 x Spare Propeller and Tool
- 1 x User Manual
- 1 x Display Stand



Alpharev

Image: An illustration depicting the remote control with a flashing red light and an alarm symbol, indicating the low battery warning for the RC boat.

6.6 Demo Driving Function

The boat features a one-click demo driving mode that allows it to run in an "8" shape automatically.

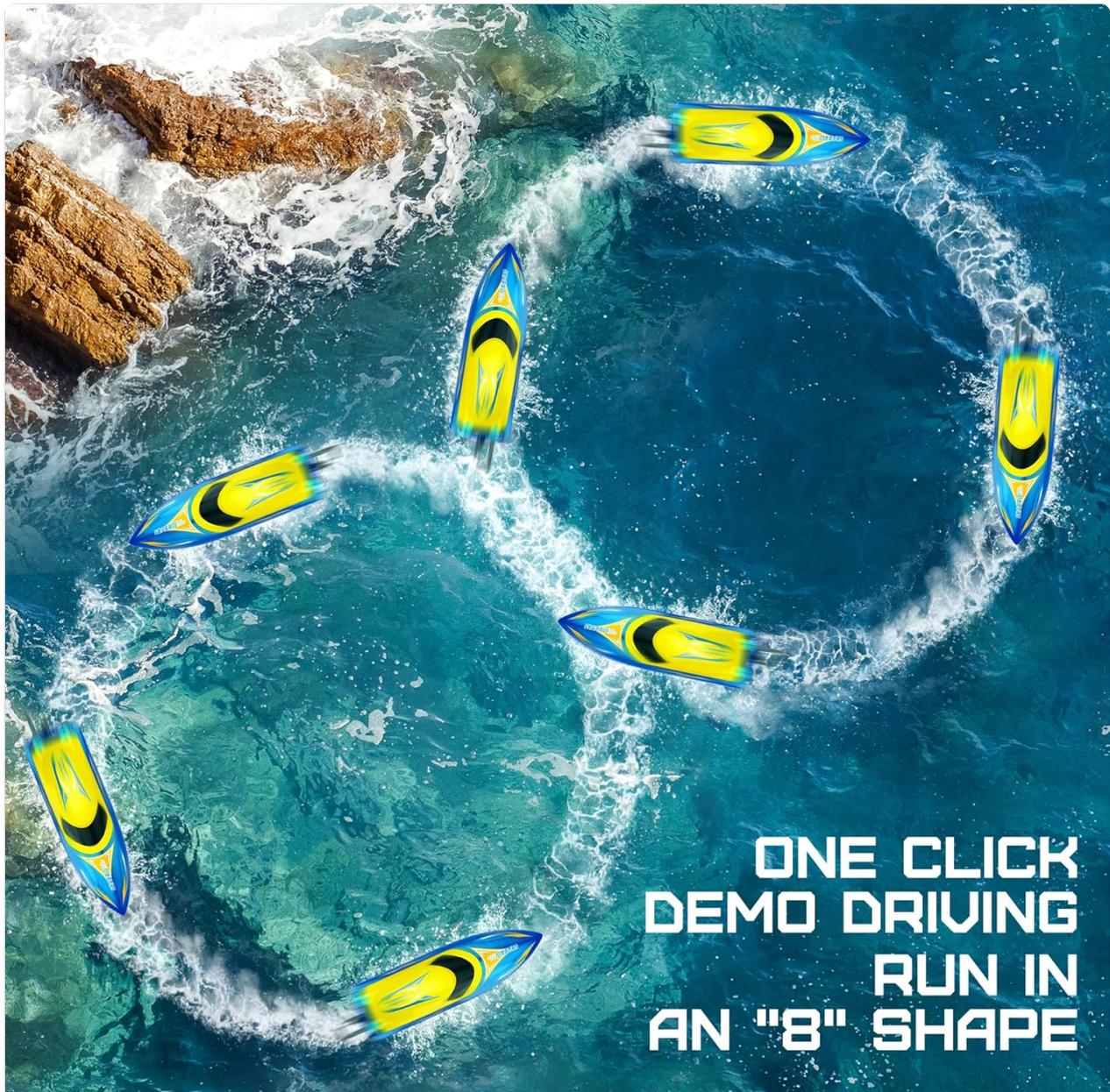


Image: An aerial view showing multiple instances of the ALPHAREV RC boat moving in an '8' shape on the water, demonstrating its one-click demo driving function.

7. MAINTENANCE

- After each use, wipe down the boat with a soft, dry cloth.
- Ensure all water is drained from the hull and cooling system.
- Remove the battery from the boat and transmitter when storing.
- Store the boat and transmitter in a cool, dry place, away from direct sunlight and extreme temperatures.
- Regularly check the propeller for any debris or damage. Use the provided tool to replace if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Boat does not respond to transmitter.	Low battery in boat or transmitter; Not paired; Out of range.	Charge boat battery; Replace transmitter batteries; Re-pair boat and transmitter; Operate within range (400ft).
Boat runs slowly or intermittently.	Low boat battery; Propeller tangled with debris; Motor overheating.	Charge boat battery; Clear propeller; Allow motor to cool down.
Boat capsizes frequently.	Operating in rough water; High speed turns.	Operate in calmer water; Reduce speed during turns. The self-righting function should correct it.
Water inside the boat.	Hatches not sealed properly; Damage to hull.	Ensure all hatches are securely closed before use; Inspect hull for cracks and repair if necessary.

9. SPECIFICATIONS

Features

SPEED
35+ KPH

RANGE
400ft

SELF-RIGHTING HULL
Avoids belly-up

BATTERY CHARGER
USB

MOTOR
2212 Brushless

RADIO SYSTEM
2.4GHz

SIZE
16.3 inch

PROPELLORS
2 blades

BATTERY
3S 11.1V/2000mAh

LIGHTING
LEDs



Image: An infographic summarizing the key features and specifications of the ALPHAREV R608 RC boat, including speed, range, radio system, and battery details.

Feature	Specification
Model Number	R608
Speed	30+ MPH (50+ KPH)
Radio System	2.4 GHz
Control Range	Approx. 400 ft
Boat Dimensions	16.3 inches (Length)
Motor Type	2212 Brushless Motor
Battery	3S 11.1V/2000mAh Li-ion
Battery Charger	USB
Propellers	2 blades
Lighting	LEDs
Self-Righting Hull	Yes, avoids belly-up

10. WARRANTY AND SUPPORT

ALPHAREV is committed to providing quality products and customer satisfaction. For any questions, technical support, or warranty inquiries, please contact our professional support team:

Phone: +1 (833) 633-0090

Operating Hours: 9:00 AM - 6:00 PM CST, Monday to Friday

Support Email: Support@alpharevrc.com



**PROFESSIONAL
SUPPORT TEAM**

+1 (833) 633-0090
9:00am - 6:00pm CST Monday to Friday

Support: Support@alpharevrc.com
Collab: Marketing@alpharevrc.com

Image: A professional customer support team member wearing a headset, representing the available support for ALPHAREV products.