

WLtoys A959-B

WLtoys A959, A959-A, A959-B 1:18 Scale RC Rally Racing Car Instruction Manual

Models: A959, A959-A, A959-B

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1. INTRODUCTION

This manual provides instructions for the WLtoys A959, A959-A, and A959-B 1:18 scale 2.4GHz 4WD Rally Racing Cars. Please read this manual thoroughly before operating the vehicle to ensure proper use, optimal performance, and safety. Keep this manual for future reference.

2. SAFETY PRECAUTIONS

- Always operate the RC car in open areas, away from people, pets, vehicles, and obstacles to prevent accidents.
- Do not operate the RC car near water unless specifically designed for it. While the A959 series has good water resistance, it is not fully submersible.
- Keep fingers, hair, and loose clothing away from moving parts such as wheels and motors.
- Adult supervision is recommended for users under 14 years of age.
- **Battery Safety:**
 - Always disconnect the battery from the car when not in use or during charging.
 - Charge the battery only with the provided charger.
 - Do not overcharge or completely discharge the battery. If the battery is completely empty, it may not charge.
 - Never leave charging batteries unattended.
 - If the battery is damaged or swollen, discontinue use immediately and dispose of it properly.
- Do not modify the RC car or its components, as this may void the warranty and compromise safety.

3. PACKAGE CONTENTS

The package typically includes the following items:

- WLtoys A959, A959-A, or A959-B RC Car (depending on model purchased)
- 2.4GHz Remote Control Transmitter
- Rechargeable Lithium-Ion Battery (quantity and capacity may vary by model)
- Battery Charger (e.g., 7.4V balanced charger for A959-B)
- Small Cross Wrench / Sleeve
- English Instruction Manual

4. PRODUCT OVERVIEW

The WLtoys A959 series consists of 1:18 scale 4WD rally racing cars designed for high-speed performance and off-road capabilities. Each model offers a full simulation structure design for a realistic driving experience.

4.1 Model Variations



Image: Overview of WLtoys A959, A959-A, and A959-B models, highlighting key features like 4WD, 2.4GHz RC system, powerful high-speed motor, and large capacity rechargeable battery.

- **A959:** Standard model with a 390 brush motor, offering a maximum speed of 50km/h.
- **A959-A:** Entry-level model with a 390 brush motor, offering a maximum speed of 35km/h.
- **A959-B:** High-performance model with a 540 brush motor, offering a maximum speed of 70km/h.

4.2 Key Features

- **Full Simulation Structure:** Provides a realistic driving experience with remote control for high-speed driving, acceleration, deceleration, braking, backing, and turning.
- **Independent Suspension:** Front and rear wheels feature independent suspension for smooth cornering and stable body posture.
- **All-Terrain Rubber Tires:** Designed for strong ground adhesion and friction resistance across various surfaces.
- **Four-Wheel Shock Absorbers:** Enhances adaptability to bumpy terrains.
- **Digital Steering Gear:** 5-wire 3-wire digital steering gear for flexible and stable steering.
- **2.4GHz Radio System:** Allows multiple RC cars to operate simultaneously without interference, with a remote control range of approximately 100 meters.
- **Durable Construction:** High-quality PVC material, shock absorption, and anti-collision design for extended service life.

- **Water Resistance:** Good water resistance allows driving through puddles and on beaches.



Image: The WLtoys A959-B RC car driving through water, illustrating its water-resistant design.

4.3 Internal Components



Image: Comparison of brush motors used in the A959/A959-A (390 motor) and A959-B (540 motor) models.

- **Brush Motor:** A959 and A959-A models use a 390 brush motor, while the A959-B uses a more powerful 540 brush motor.
- **Active Shock Plate:** The fuselage wheel section includes an active shock-absorbing plate to reduce instability from vibrations at high speeds.
- **Differential:** Installed to ensure stable cornering and prevent rollovers, comparable to a real car's differential system.
- **Bearings:** Essential for supporting rotating parts, reducing friction, and ensuring rotation accuracy.



Image: Diagram illustrating the differential, including side gears, right axle shaft, left axle shaft, and ring gear.

5. COMPONENTS IDENTIFICATION

5.1 Remote Control Transmitter



Image: Diagram of the 2.4GHz remote control transmitter, showing the steering wheel, trigger, ON/OFF switch, and fine-tuning adjustments for steering and forward/backward movement.

- **Steering Wheel:** Controls the direction of the car (left/right).
- **Trigger:** Controls forward and backward movement, and speed. Pull to accelerate forward, push to brake/reverse.
- **ON/OFF Switch:** Powers the remote control on or off.
- **Steering Fine-Tune:** Adjusts the steering trim to ensure the car drives straight when the steering wheel is centered.
- **Forward/Backward Fine-Tune:** Adjusts the throttle trim to ensure the car remains stationary when the trigger is in the neutral position.

6. SETUP

6.1 Charging the Car Battery

1. Remove the rechargeable battery from the RC car.
2. Connect the battery to the provided charger.
3. Plug the charger into a suitable power outlet.
4. Monitor the charging indicator on the charger. Charging times vary by model (e.g., A959-B: approximately 180 minutes).
5. Once fully charged, disconnect the charger from the power outlet and then disconnect the battery from the charger.
6. **Important:** Do not leave the battery charging unattended. Ensure the battery has some remaining power before charging; a completely empty battery may not charge.

6.2 Installing Batteries

1. **Car Battery:** Insert the fully charged rechargeable battery into the battery compartment of the RC car and securely connect it. Ensure the battery is properly seated and the compartment cover is closed.
2. **Remote Control Batteries:** Open the battery compartment on the remote control. Insert the required batteries (usually AA, not always included) according to the polarity markings. Close the compartment cover.

7. OPERATION

7.1 Pairing the Remote Control

1. Ensure both the RC car and the remote control have fresh or fully charged batteries installed.

- 2. Turn on the RC car first.
- 3. Turn on the remote control. The indicator light on the remote control should blink and then become solid, indicating a successful connection.
- 4. If pairing fails, turn off both devices and repeat the steps.

7.2 Driving Controls

- **Forward/Backward:** Pull the trigger towards you to move the car forward. Push the trigger away from you to brake, then push further to reverse.
- **Steering:** Turn the steering wheel left or right to control the car's direction.
- **Trimming:** Use the fine-tune knobs on the remote control to adjust steering and throttle if the car does not drive straight or stops when the controls are centered.

7.3 Driving Tips

- Always operate the RC car in open, unobstructed areas.
- Avoid driving on public roads or near crowds.
- Practice gentle throttle and steering inputs to maintain control, especially at high speeds.
- The car is suitable for various terrains including flat ground, gravel, and grassland.

8. MAINTENANCE

8.1 Cleaning

- After each use, especially after driving in dirt or wet conditions, clean the car to remove debris.
- Use a soft brush or compressed air to remove dirt from the chassis, wheels, and suspension components.
- Wipe the body with a damp cloth. Do not use harsh chemicals or solvents.

8.2 Battery Care and Storage

- Always disconnect the battery from the RC car when storing it to prevent over-discharge.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to store Li-Ion batteries at a partial charge (around 50-60%) rather than fully charged or fully discharged.

8.3 General Inspection

- Regularly check for loose screws, damaged parts, or worn tires. Replace any damaged components promptly.
- Ensure all electrical connections are secure.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Car does not respond to remote control.	Low battery in car or remote; not paired; power switch off.	Charge/replace batteries; re-pair remote and car; ensure power switches are ON.
Car drives crooked.	Steering trim needs adjustment; damaged steering components.	Adjust steering fine-tune knob on remote; inspect and replace damaged parts.

Problem	Possible Cause	Solution
Reduced speed or short run time.	Battery not fully charged; old battery; motor issues.	Ensure battery is fully charged; consider replacing old battery; check motor for debris.
Remote control indicator light not solid.	Not paired; remote control battery low.	Re-pair the remote and car; replace remote control batteries.

10. SPECIFICATIONS

Detailed specifications for the WLtoys A959 series RC cars:



Image: Comparative table showing specifications for WLtoys A959, A959-A, and A959-B models.

Feature	A959	A959-A	A959-B
Item Name	959	959A	959B
Size (cm)	24.5 x 17.5 x 9.4	24.5 x 17.5 x 9.4	24.5 x 17.5 x 9.4
Max Speed	50 km/h	35 km/h	70 km/h
Battery	7.4V 1100mAh	6.4V 750mAh	7.4V 1500mAh
Driving Motor	390 brush motor	390 brush motor	540 brush motor
Weight	586.5 g	580 g	934 g
Use Time	Approx. 10 mins	Approx. 10 mins	Approx. 6 mins+
Charging Time	Approx. 150 mins	Approx. 180 mins	Approx. 180 mins
Controlling Distance	Approx. 100m (328ft)	Approx. 60m (196.8ft)	Approx. 100m (328ft)
Material Type	Metal, PVC		
Scale	1:18 Scale		

11. WARRANTY AND SUPPORT

Your WLtoys RC car comes with a manufacturer's warranty.

- **Warranty Period:** 30 days from the date of purchase.
- This warranty covers manufacturing defects. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

- For warranty claims or technical support, please contact your retailer or the WLtoys customer service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question