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## WLtoys 104009

# WLtoys 104009 1:10 Scale 4WD RC Racing Car Instruction Manual

Model: 104009

## 1. INTRODUCTION

Thank you for purchasing the WLtoys 104009 1:10 Scale 4WD RC Racing Car. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new remote control vehicle. Please read it thoroughly before use to ensure optimal performance and longevity of the product.

### 1.1 Package Contents

- 1 x WLtoys 104009 RC Car
- 1 x 2.4G Remote Control Transmitter
- 1 x User Manual
- 1 x USB Charging Cable
- 1 x Zinc Alloy Cross Sleeve
- 1 set x 7.4V 1500mAh Lithium Battery (quantity may vary based on package)



Figure 1.1: WLtoys 104009 RC Car. This image shows the complete remote control car with its vibrant blue, orange, and black livery, large off-road tires, and roof-mounted LED light bar.



Figure 1.2: Package Contents. This image illustrates the WLtoys 104009 RC car alongside its remote control, battery, USB charging cable, and original packaging, highlighting what is included in the box.

## 2. SAFETY PRECAUTIONS

Always operate the RC car responsibly to prevent injury or damage. Failure to follow these safety guidelines may result in serious injury or property damage.

- **Age Recommendation:** This product is recommended for users 14 years and up.
- **Battery Safety:** Use only the specified battery and charger. Do not overcharge or short-circuit batteries. Keep batteries away from heat and open flames.

- **Operating Environment:** Avoid operating the car in crowded areas, near people, pets, or obstacles. Do not operate in public roads or areas with vehicle traffic.
- **Water and Moisture:** While the car features a sealed gearbox and waterproof/dustproof electronic board, prolonged exposure to water or extreme moisture is not recommended.
- **Inspection:** Before each use, inspect the car for any loose parts, damaged components, or worn tires.

## 3. SETUP

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### 3.1 Battery Installation (RC Car)

1. Ensure the RC car is powered off.
2. Carefully remove the body shell by detaching the body clips.
3. Locate the battery compartment.
4. Connect the 7.4V 1500mAh Lithium Battery to the car's ESC connector.
5. Place the battery securely in the compartment and reattach the body shell.

### 3.2 Transmitter Battery Installation

1. Open the battery cover on the back of the remote control.
2. Insert the required AAA batteries (1 included) according to the polarity markings.
3. Close the battery cover.

### 3.3 Pairing the Transmitter and Receiver

1. Turn on the transmitter. The indicator light will flash.
2. Turn on the RC car. The car's indicator light will also flash.
3. Once the indicator lights on both the transmitter and car become solid, the pairing is complete.

## 4. OPERATING INSTRUCTIONS

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Familiarize yourself with the remote control functions before operating the vehicle.

### 4.1 Remote Control Functions



## 2.4 Ghz Remote Control

2.4GHz has great advantages, even there are other people in the operation of car in the same space, the frequency will not be interfered with the same frequency.



Figure 4.1: Remote Control. This image displays the 2.4 GHz remote control with labels for the power switch, steering wheel, turned fine-tune, and throttle trim, indicating its various control features.

- **Steering Wheel:** Controls left and right turning.
- **Throttle Trigger:** Pull to accelerate forward, push to brake/reverse.
- **Steering Trim:** Adjusts the neutral position of the steering.
- **Throttle Trim:** Adjusts the neutral position of the throttle.
- **Power Switch:** Turns the transmitter on/off.

## 4.2 Driving Tips

- Start with slow speeds to get accustomed to the controls.
- Practice steering and throttle control in an open area.
- The 4WD system provides excellent traction on various terrains.
- Utilize the proportional steering and throttle for precise control.

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Video 4.2: WLtoys 104009 1:10 2.4G Racing Remote Control Car 45KM/H 4WD. This video demonstrates the WLtoys 104009 RC car in action, showcasing its speed and handling capabilities on various terrains, including sand dunes.

## 5. FEATURES

The WLtoys 104009 is engineered for performance and durability.

- **High-Speed Performance:** Achieves speeds up to 45 KM/H.
- **4WD System:** Provides superior traction and control on diverse surfaces.
- **550 Carbon Brush Motor:** Offers powerful drive and acceleration.
- **Anti-Explosion PVC Car Shell:** Designed for anti-collision and anti-falling protection.
- **Sealed Gearbox & Waterproof Electronics:** Allows for operation on dusty or wet surfaces.
- **Independent Suspension System:** Equipped with qualified spring shocks for smooth driving and effective vibration reduction over obstacles.
- **Aluminum Alloy Swing Arms:** High-strength components for enhanced stability and durability.
- **Zinc Alloy Gears:** Ensures smooth steering and extended service life.
- **Bright LED Lights:** Front headlights and roof-mounted light bar for visibility in low-light conditions.



Figure 5.1: 4WD Climbing Car. This image highlights the WLtoys 104009's capability as an electric 4WD

climbing car, suitable for off-road, desert, mountainous, and rocky terrains.

## ELECTRIC 4WD CLIMBING CAR

The car adopts anti-explosion PVC color printing car shell, which has the function of anti-collision and anti-falling. The sealed gear box and the electronic board with waterproof and dustproof function can drive as usual even in the dusty or watery road surface.



Figure 5.2: 550 Carbon Brush Motor. This image focuses on the powerful 550 carbon brush motor, emphasizing its 45 KM/H speed capability and robust power for climbing slopes.

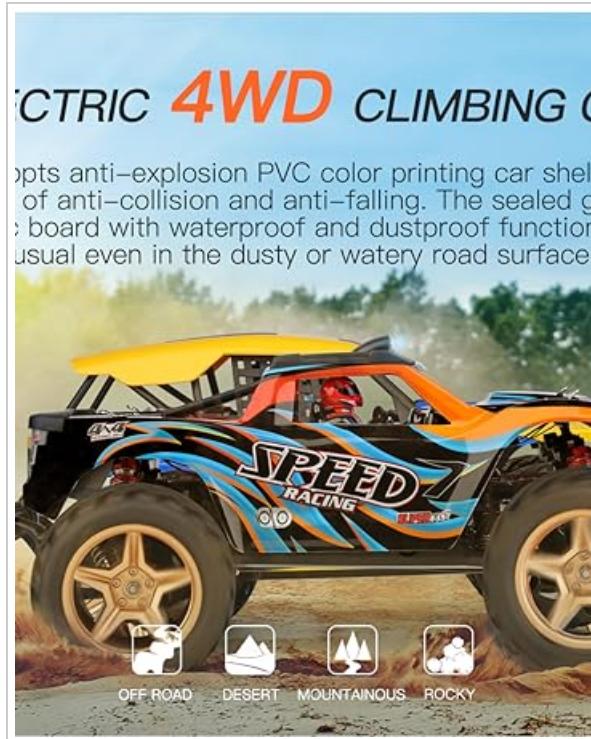


Figure 5.3: Aluminum Alloy Bodywork. This image showcases the high-strength aluminum alloy bodywork of the RC car, contributing to its strong stability and durability.

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Video 5.4: WLtoys 104019 1:10 2.4G Racing Rc. This video, featuring a related model (104019), demonstrates the robust construction and dynamic performance of WLtoys 1:10 scale RC racing cars, including jumps and high-speed maneuvers.

## 6. MAINTENANCE

Regular maintenance will extend the life and performance of your RC car.

- **Cleaning:** After each use, especially in dusty or muddy conditions, clean the car with a soft brush or compressed air. Avoid using water directly on electronic components.
- **Lubrication:** Periodically check and lubricate moving parts such as gears and bearings with appropriate RC lubricant.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely discharged for long periods. Charge before use.
- **Inspection:** Regularly check screws, nuts, and other fasteners for tightness. Inspect tires for wear and tear.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Car does not respond to transmitter	Low battery in car or transmitter; Not paired correctly; Power switch off	Charge/replace batteries; Re-pair transmitter and car; Ensure power switches are ON

Problem	Possible Cause	Solution
Reduced speed or power	Low car battery; Motor overheating; Obstruction in drivetrain	Charge car battery; Allow motor to cool; Check for debris in gears/wheels
Steering issues (e.g., not straight, unresponsive)	Steering trim incorrect; Damaged servo; Loose steering components	Adjust steering trim; Inspect servo and steering linkages for damage/looseness
Unusual noises during operation	Damaged gears; Debris in moving parts; Worn bearings	Inspect gears for damage; Clean out debris; Replace worn bearings

## 8. SPECIFICATIONS

Feature	Detail
Model Number	104009
Scale	1:10
Drive System	4-Wheel Drive (4WD)
Max Speed	45 KM/H
Motor Type	550 Carbon Brush Strong Magneto
Remote Control Frequency	2.4 GHz
Battery (Car)	7.4V 1500mAh Lithium Battery
Battery (Transmitter)	1 x AAA Battery (included)
Product Dimensions	8 x 14 x 5 inches
Item Weight	4.41 pounds
Recommended Age	14 years and up

## 9. WARRANTY AND SUPPORT

WLtoys products are manufactured to high-quality standards. For warranty information, technical support, or replacement parts, please refer to the contact information provided with your purchase or visit the official WLtoys website. Keep your purchase receipt as proof of purchase.