

GoolRC 124008

GoolRC WLtoys 124008 Brushless RC Car User Manual

Model: WLtoys 124008

1. INTRODUCTION

Thank you for purchasing the GoolRC WLtoys 124008 Brushless RC Car. This 1:12 scale, 4WD high-speed racing car is designed for off-road performance. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting. Please read it thoroughly before using the product.

2. SAFETY PRECAUTIONS

- This product is recommended for users aged 16 years and up.
- Always operate the RC car in open areas, away from people, pets, and obstacles.
- Do not operate near public roads, power lines, or water bodies.
- Ensure the battery is fully charged before each use.
- Never leave charging batteries unattended.
- Avoid contact with moving parts to prevent injury.
- Turn off the RC car and remote control when not in use.
- Use only original or approved replacement parts and accessories.

3. PACKAGE CONTENTS

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

- GoolRC WLtoys 124008 RC Car (1 unit)
- 2.4GHz Remote Controller (1 unit)
- 11.1V 2000mAh Car Battery (1 unit)
- USB Charging Cable (1 unit)
- Cross Wrench (1 unit)



Image: The GoolRC WLtoys 124008 RC car, remote controller, battery, charging cable, and cross wrench included in the package.

4. PRODUCT OVERVIEW

4.1 RC Car Features

- **High-Speed Brushless Motor:** Equipped with a 3500KV brushless motor, capable of speeds up to 60 KM/H. Features aluminum fins for enhanced heat dissipation and motor longevity.
- **Durable Construction:** Features zinc alloy gears for wear resistance and improved service life. The body utilizes anti-explosion PVC color printing, designed for anti-collision and anti-fall functionality across various terrains.
- **Advanced Electronics:** Includes an independent 35A Electronic Speed Controller (ESC) for good performance, an independent receiver for stable signal, and an independent servo for flexible control.
- **All-Terrain Capability:** Four anti-slip wheels with shockproof springs provide stability and adaptability to rough terrains such as sand, snow, grass, mountain roads, and rocky paths.
- **Modular Battery Design:** Features a modular battery for high efficiency and power density.

NO. 124008

3S ELECTRIC 4WD



1:12



METAL GEARS
INDEPENDENT SUSPENSION DRIVEN SYSTEM



3S

BRUSHLESS MOTOR



60 KM/H

MAX SPEED



2.4 GHz

REMOTE CONTROL MODE



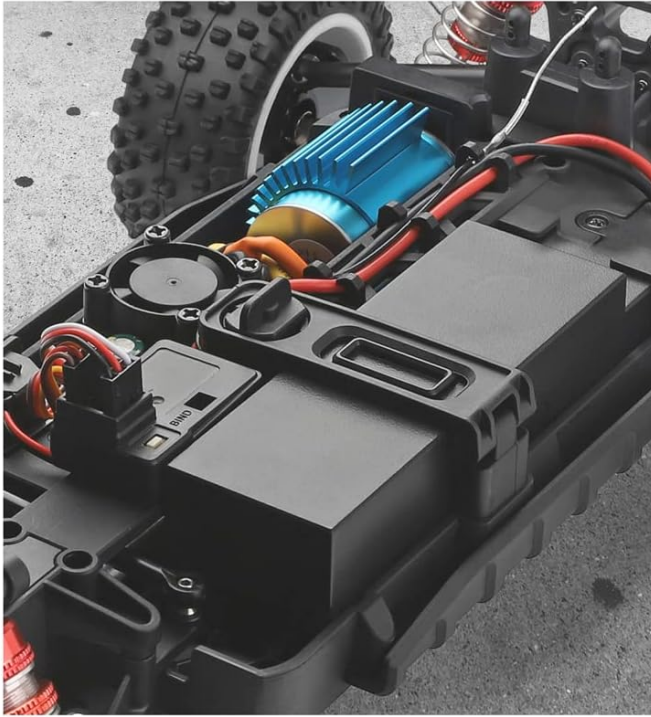
100 M

CONTROL DISTANCE

Image: The WLtoys 124008 RC car, highlighting its 3S Electric 4WD capabilities and 1:12 scale.



4POLES 3500KV



Brushless Motor

Brushless motor, with **3S** 35A electric adjustment, fast speed, high efficiency, up to 60Km/h. Premium motors give more horsepower and are faster than comparable cars.

MOTOR TYPE

3S

4POLES

BL MOTOR 3S
BRUSHLESS DRIVE MOTOR
FOR MORE POWER

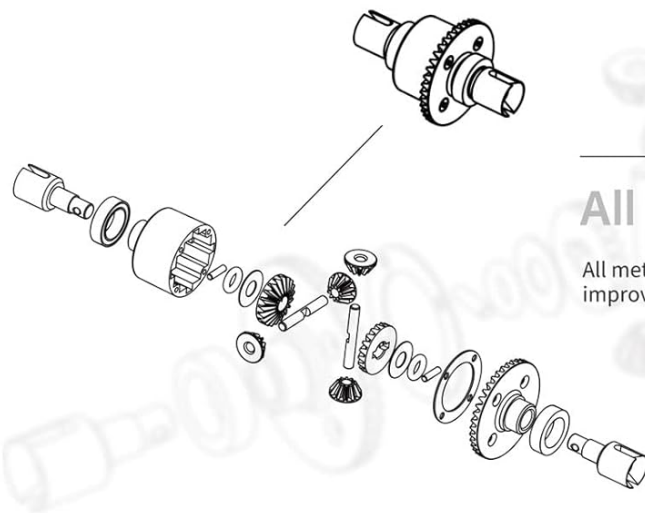
MOTOR VALUE

3500_{KV}

HIGH EFFICIENCY

LOW ENERGY CONSUMPTION
LOW NOISE (MUTE)
SMOOTH OPERATION

Image: Close-up view of the 3500KV brushless motor and internal components of the RC car.



All Metal Gear

All metal gear, wear resistance, improve the service life of gear.

MODULAR BATTERY

MODULAR BATTERY, SMALL SIZE, HIGH EFFICIENCY, HIGH POWER DENSITY.

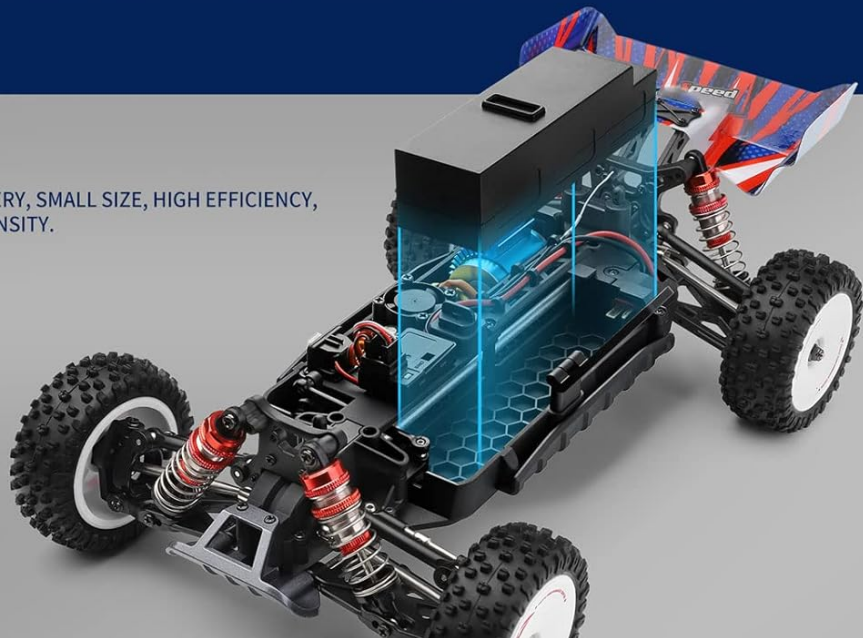


Image: Exploded diagram illustrating the all-metal gear system for durability.

INTEGRATED MOBILE PHONE HOLDER

In order to facilitate the external camera to achieve real-time control vision, The remote control is equipped with a built-in mobile phone bracket for smooth play.



Image: Diagram showing the modular battery installation within the RC car chassis.

4.2 Remote Controller Features

- **2.4GHz System:** Provides anti-jamming capability for stable control up to 100 meters.
- **Ergonomic Design:** Features a steering wheel with a lever for one-hand operation, enhancing control ease.
- **Integrated Phone Holder:** Equipped with a built-in mobile phone bracket to facilitate real-time control vision via an external camera (camera not included).

ONE HAND CONTROL

The new remote control adds a lever to the steering wheel, which can be operated with one hand. It makes it easier to control.



ELECTRIC 4WD CAR



Image: The remote control designed for comfortable one-hand operation.

2.4GHZ

RADIO CONTROL

100m
CONTROL DISTANCE



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.

Image: The remote control with a smartphone mounted in its integrated holder, enabling FPV (First Person View) driving with a compatible camera.

2.4GHZ

RADIO CONTROL

100m
CONTROL DISTANCE



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.

Image: Detailed diagram of the 2.4GHz remote control, labeling the power light, power switch, throttle tuning, steering adjustment, steering regulating wheel, trigger, and battery cover.

5. SETUP

5.1 Charging the Car Battery

1. Connect the 11.1V 2000mAh car battery to the USB charging cable.
2. Plug the USB charging cable into a suitable USB power adapter (not included).
3. The charging indicator light on the USB cable will show the charging status. Refer to the charger's instructions for specific light indications.
4. Charging typically takes approximately 3 hours. Do not overcharge the battery.
5. Disconnect the battery once fully charged.

5.2 Installing Remote Control Batteries

1. Open the battery compartment cover on the back of the remote control.
2. Insert 4 AAA batteries (not included) into the compartment, ensuring correct polarity.
3. Close the battery compartment cover securely.

5.3 Installing the Car Battery

1. Locate the battery compartment on the RC car.
2. Carefully insert the fully charged 11.1V 2000mAh battery into the compartment.
3. Connect the battery connector to the car's power connector.
4. Secure the battery compartment cover.

6. OPERATING INSTRUCTIONS

6.1 Powering On and Pairing

1. Turn on the remote control first using the power switch. The power light will illuminate.
2. Next, turn on the RC car. The car and remote control should automatically pair. If pairing fails, turn both off and repeat the process.

6.2 Basic Controls

- **Throttle Trigger:** Pull the trigger towards you to accelerate forward. Push the trigger away from you to brake or reverse.
- **Steering Wheel:** Rotate the steering wheel left to turn the car left, and right to turn the car right.
- **Steering Adjustment:** Use the steering adjustment knob on the remote to fine-tune the steering trim if the car does not drive straight.
- **Throttle Tuning:** Use the throttle tuning knob to adjust the neutral position of the throttle.

OUTPUT DRIVING FORCESTRONG



To achieve high speed, rapid acceleration, deceleration, braking speed up to 60 Km/h. This may be your favorite equipment, is about to take you on a speed trip.

Image: The RC car demonstrating its high-speed driving capability on a sandy surface.



Image: The RC car navigating challenging rocky terrain, showcasing its off-road capabilities.

6.3 Driving Tips

- Start with slow speeds to familiarize yourself with the controls.
- Practice steering and throttle control in an open, clear area.
- Avoid driving in wet conditions or through deep puddles to prevent damage to electronics.
- Regularly check for loose screws or damaged parts after aggressive driving.

7. MAINTENANCE

7.1 Cleaning

- After each use, especially in dusty or dirty environments, clean the car.
- Use a soft brush or compressed air to remove dirt and debris from the chassis, wheels, and motor area.
- Wipe the body with a damp cloth. Do not use harsh chemicals.

7.2 Storage

- Store the RC car and remote control in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries from both the car and remote control if storing for extended periods to prevent leakage.

7.3 Component Inspection

- Periodically inspect all moving parts, including gears, axles, and suspension components, for wear or damage.
- Check for loose screws and tighten them as necessary.
- Ensure shock absorbers are functioning correctly.



Image: Detailed view of the simulated metal oil pressure shock absorbers, designed to reduce vibration.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Car does not respond to remote.	Low battery in car or remote; not paired; remote out of range.	Charge car battery; replace remote batteries; re-pair car and remote; ensure within 100m range.
Car drives crooked.	Steering trim needs adjustment.	Adjust the steering adjustment knob on the remote control.
Reduced speed or power.	Low car battery; motor overheating; debris in drivetrain.	Recharge car battery; allow motor to cool; clean car and inspect gears.
Unusual noises during operation.	Damaged gears; debris in moving parts.	Inspect gears for damage and replace if necessary; clean drivetrain.

9. SPECIFICATIONS

Feature	Detail
Model Number	WLtoys 124008
Scale	1:12
Drive System	4-Wheel Drive (4WD)
Motor Type	3500KV Brushless Motor
Max Speed	60 KM/H
Remote Control Frequency	2.4GHz
Control Distance	Up to 100 meters
Car Battery	11.1V 2000mAh Li-ion
Run Time	Approximately 16 minutes
Charging Time	Approximately 3 hours
Remote Control Batteries	4 x AAA (not included)

Feature	Detail
Dimensions (Car)	34.7 x 21.1 x 12.2 cm (13.66 x 8.31 x 4.8 inches)
Item Weight	4.54 pounds (approx. 2.06 kg)
Recommended Age	16 years and up

Product Information

NO.124008

Name.
1:12 3S Electric 4WD Racing Car

Size.
34.7×21.1×12.2cm

Box size.
39.4×22.8×17.5cm

Mode.
2.4GHz (Remote Control Distance is about 100m)

Motor.
3S Brushless Motor

Battery.
11.1V 2000mAh *1

Speed.
60Km/h

Use time.
About 16 min

Charging time.
About 3 h



Image: Visual representation of key product specifications including size, motor, battery, speed, and control distance.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the contact information provided with your purchase or visit the official GoolRC website. Keep your proof of purchase for warranty claims.

Manufacturer: GoolRC

