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- › [GoolRC](#) /
- › [GoolRC WLtoys 124016 V2 RC Car Instruction Manual](#)

GoolRC 124016 V2

GoolRC WLtoys 124016 V2 RC Car Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe operation, setup, and maintenance of your GoolRC WLtoys 124016 V2 RC Car. Please read this manual thoroughly before operating the vehicle to ensure proper function and longevity.



Image 1.1: The GoolRC WLtoys 124016 V2 RC Car, a 1:12 scale brushless motor remote control vehicle.

2. PACKAGE CONTENTS

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

- RC Car (WLtoys 124016 V2)
- Remote Controller
- Car Battery (7.4V 2200mAh Lithium Ion)
- Charging Cable
- Small Cross Sleeve (Tool)
- User Manual



Image 2.1: Contents of the GoolRC WLtoys 124016 V2 package.

3. COMPONENT IDENTIFICATION

Familiarize yourself with the main components of your RC car and remote controller.

3.1 RC Car Components

GoolRC WLtoys 124016 V2 Brushless Motor Remote Control Car



Image 3.1: Detailed view of the RC car's internal and external components.

- **Brushless Motor:** Provides high-speed performance.
- **ESC (Electronic Speed Controller):** Manages motor power.
- **Servo:** Controls steering.
- **7.4V 2200mAh Battery:** Power source for the car.
- **Aluminum Alloy Shock Tower:** Structural support for suspension.
- **Hardware Oil Shock Absorbers:** Dampen impacts and provide stability.
- **Rubber Tires:** Provide traction on various surfaces.
- **All-Metal Chassis:** Durable base for the vehicle.

3.2 Remote Controller Components

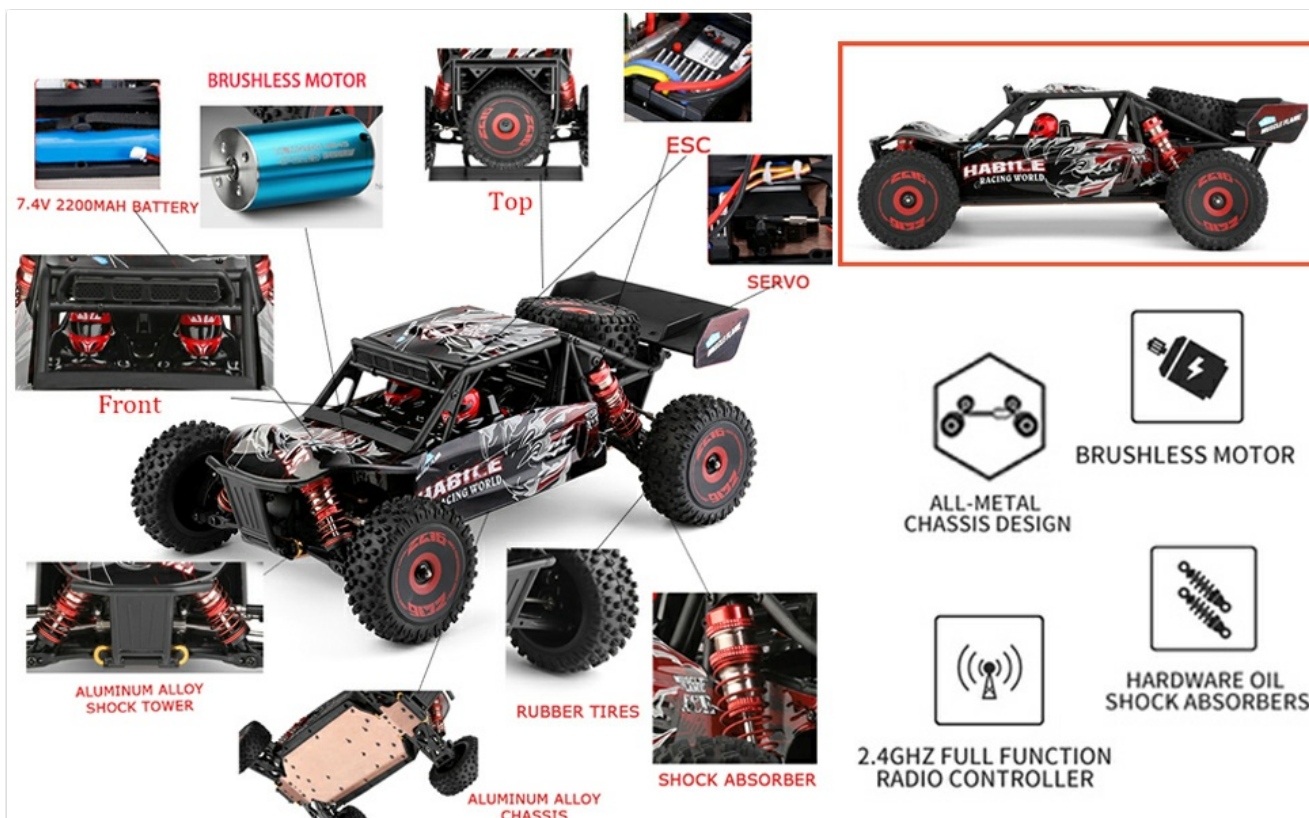


Image 3.2: Layout of the 2.4GHz remote control.

- **Power LED:** Indicates power status.
- **Power Switch:** Turns the controller on/off.
- **Steering Regulation Wheel:** Controls left/right steering.
- **Trigger:** Controls forward/backward movement and speed.
- **Fine-Tune Dials:** Adjust steering and throttle trim.
- **Remote Control Battery Cover:** Access for installing controller batteries.
- **Integrated Mobile Phone Holder:** For optional phone mounting.

4. SETUP

Follow these steps to prepare your RC car for operation.

1. Charge the Car Battery:

- Connect the provided 7.4V 2200mAh Lithium Ion battery to the charging cable.
- Plug the charging cable into a suitable USB power source.
- Allow approximately 3 hours for a full charge. The charging indicator will change when complete.

2. Install Remote Controller Batteries:

- Open the battery cover on the remote controller.
- Insert the required batteries (typically AA, not included) according to the polarity markings.
- Close the battery cover securely.

3. Install Car Battery:

- Carefully open the battery compartment on the RC car.
- Connect the fully charged car battery to the car's power connector, ensuring correct polarity.
- Secure the battery within the compartment and close the cover.

4. Power On and Pair:

- Turn on the remote controller using its power switch. The power LED should illuminate.
- Turn on the RC car's power switch.
- The car and controller should automatically pair. If not, refer to the troubleshooting section.

5. OPERATING INSTRUCTIONS

This section details how to operate your GoolRC WLtoys 124016 V2 RC Car.

5.1 Basic Controls

- **Forward/Backward:** Pull the trigger towards you to accelerate forward. Push the trigger away from you to brake or reverse.
- **Left/Right Steering:** Rotate the steering wheel on the remote controller to turn the car left or right.

5.2 Driving Tips

- **Start Slowly:** Due to the high speed capability (up to 75km/h), it is recommended to start with gentle throttle inputs, especially for new users.
- **Terrain Adaptability:** The car is designed for various terrains including beaches, snow, grass, mountain roads, and rock roads, thanks to its hardware oil shock absorbers and metal chassis.
- **Control Distance:** Maintain operation within the approximate 100-meter control range to avoid signal loss.

OUTPUT DRIVING FORCESTRONG

To achieve high speed, rapid acceleration, deceleration, braking speed up to 75 Km/h. This may be your favorite equipment, is about to take you on a speed trip.



Image 5.1: The RC car demonstrating its high-speed driving capabilities.

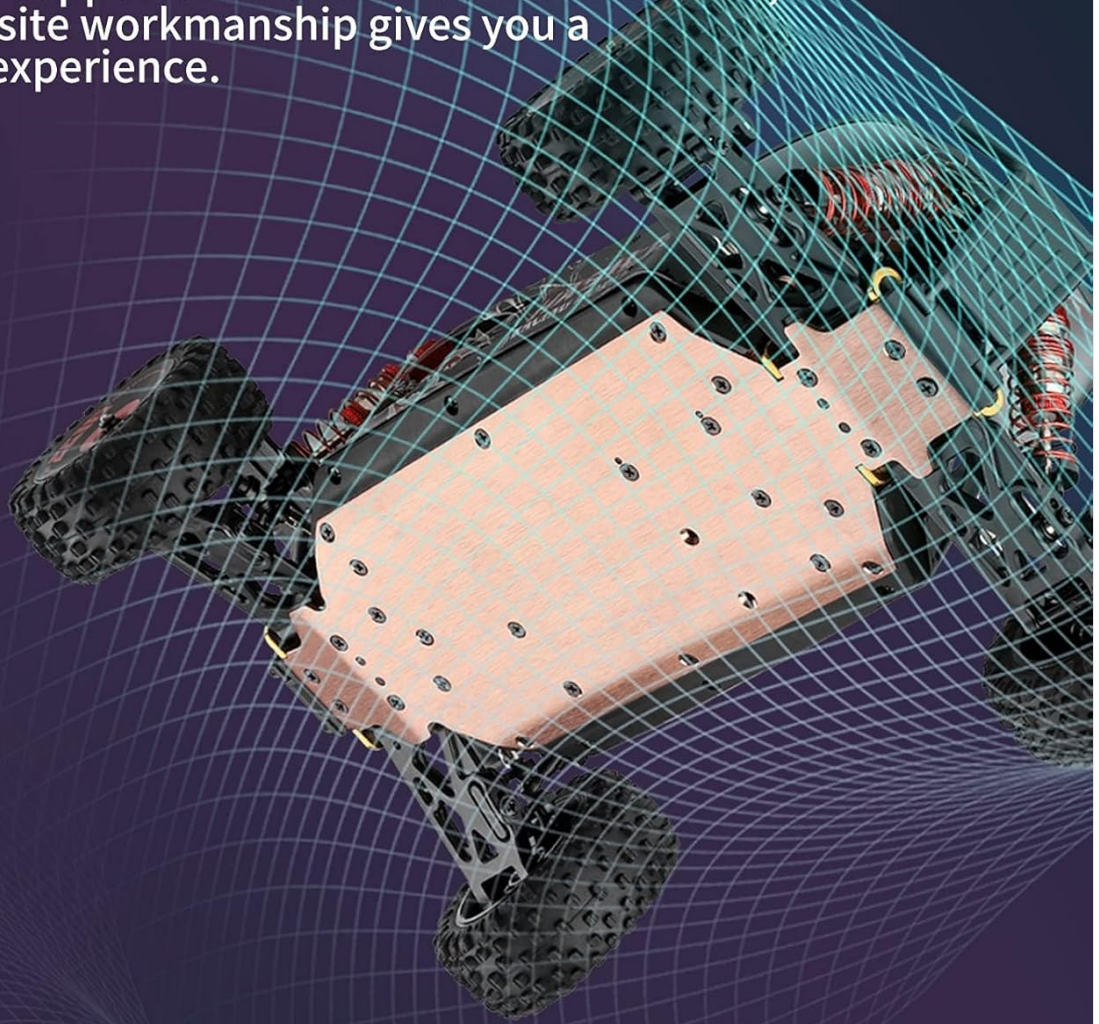
6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your RC car.

- **Cleaning:** After each use, especially in dusty or wet conditions, clean the car to remove dirt and debris. Use a soft brush or compressed air. Avoid using water directly on electronic components.
- **Inspecting Components:** Regularly check for loose screws, damaged parts (e.g., bent dog bones, cracked chassis), or worn tires. Replace damaged parts promptly.
- **Shock Absorbers:** Ensure the oil shock absorbers are functioning correctly and not leaking.
- **Battery Care:** Store the battery in a cool, dry place. Do not overcharge or completely discharge the battery. Disconnect the battery from the car when not in use.
- **Lubrication:** Periodically lubricate moving parts such as gears and bearings with appropriate RC-grade lubricant.

ALL-METAL CHASSIS

With a cool appearance and an all-metal chassis, this exquisite workmanship gives you a different experience.



ALL-METAL CHASSIS

Image 6.1: The durable all-metal chassis of the RC car.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Car does not respond to remote.	Low battery in car or remote; not paired; power switch off.	Charge car battery, replace remote batteries, ensure both are powered on and paired.
Reduced speed or power.	Low car battery; motor/ESC overheating; debris in drivetrain.	Recharge battery, allow components to cool, clean drivetrain.
Steering is off-center.	Steering trim not adjusted; damaged steering components.	Use the steering fine-tune dial on the remote. Inspect and replace damaged parts if necessary.

Problem	Possible Cause	Solution
Unusual noises during operation.	Damaged gears; debris in moving parts.	Inspect gears for damage, clean out any foreign objects.
Short run time.	Battery not fully charged; aging battery.	Ensure battery is fully charged (approx. 3 hours). Consider replacing old batteries.

8. SPECIFICATIONS

Key technical specifications for the GoolRC WLtoys 124016 V2 RC Car:



Image 8.1: Overview of product specifications.

- **Model:** WLtoys 124016 V2
- **Scale:** 1:12
- **Drive System:** 4WD (Four-Wheel Drive)
- **Motor:** Brushless Motor
- **Max Speed:** Approximately 75 km/h
- **Remote Control Frequency:** 2.4GHz
- **Control Distance:** Approximately 100 meters
- **Car Battery:** 7.4V 2200mAh Lithium Ion
- **Charging Time:** Approximately 3 hours
- **Operating Time:** Approximately 8 minutes
- **Dimensions (Car):** 35.6 x 20.8 x 12.3 cm (14 x 8.2 x 4.8 inches)
- **Item Weight:** 4.69 pounds (approx. 2.13 kg)
- **Chassis Material:** All-Metal
- **Shock Absorbers:** Hardware Oil Shock Absorbers

9. WARRANTY AND SUPPORT

GoolRC is committed to providing quality products and customer satisfaction.

9.1 Warranty Information

If you encounter any problems with your GoolRC WLtoys 124016 V2 RC Car, please contact our store directly. We are dedicated to providing a satisfactory solution for any issues that may arise.



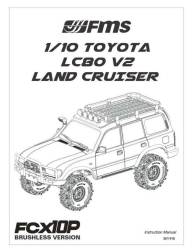
9.2 Customer Support

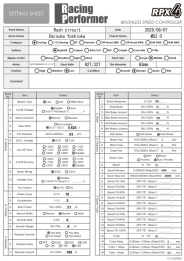
For further assistance, spare parts, or inquiries, please visit the official GoolRC store or contact customer service through your purchase platform.

You can find more information and support at the [GoolRC Store on Amazon](#).

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Related Documents - 124016 V2

	<p>MJX 14209 1:14 RC High Speed Car User Manual V2.0</p> <p>Comprehensive user manual for the MJX 14209 1:14 scale RC High Speed Car. Covers safety precautions, operation, component details, battery management, and assembly instructions for this brushless RC truck.</p>
	<p>Absima AMT3.4 v2 1:10 EP Monster Truck 4WD Brushed/Brushless - User Manual</p> <p>Comprehensive user manual for the Absima AMT3.4 v2 1:10 scale electric-powered monster truck. Covers safety, operation, maintenance, ESC details, parts lists, and warranty information for both brushed and brushless configurations.</p>
	<p>FMS 1/10 Toyota Land Cruiser LC80 V2 FCX10P Brushless Instruction Manual</p> <p>Comprehensive instruction manual for the FMS 1/10 scale Toyota Land Cruiser LC80 V2 FCX10P Brushless remote control vehicle. Covers operation, maintenance, safety, and specifications for this high-performance RC model.</p>



[RPX4 Brushless Speed Controller Setting Sheet - Rush Circuit Configuration](#)

Detailed setting sheet for the RPX4 Brushless Speed Controller, configured for Rush Circuit by Daisuke Yoshioka. Includes parameters for general settings, throttle, brake, reverse, frequency, and boost.



[Absima 1:8 Scale 4WD Electric Buggy/Stunt Truck Instruction Manual - User Guide](#)

Instruction manual for Absima 1:8 scale 4WD electric RC vehicles, including Buggy (Stoke V2) and Stunt Truck (Guardian) models. This guide provides an overview of components, drivetrain, suspension, and electronics, with detailed diagrams and manufacturer information. Presented in English.



[HPI Savage XL Flux V2 Exploded Views and Parts Guide](#)

Detailed exploded views of the HPI Savage XL Flux V2 RC car components, including front and rear gearboxes, transmission assembly, and chassis. This guide lists part numbers for identification and maintenance.