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GoolRC 16889A Pro

GoolRC 16889A Pro RC Car Instruction Manual

Model: 16889A Pro | Brand: GoolRC

1. INTRODUCTION

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your GoolRC 16889A Pro RC Car. This 1:16 scale remote control car features a 4WD system, brushless motor, and is designed for high-speed, all-terrain performance. Please read this manual thoroughly before operating the vehicle to ensure safe and optimal performance.



Image: The GoolRC 16889A Pro RC Car, its remote controller, and two battery packs.

2. PACKAGE CONTENTS

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

- 1* RC Car
- 2* Car Battery
- 1* USB Charging Cable
- 1* Remote Controller
- 1* Instruction Manual
- 1* Led Lights
- 1* Head Wheel
- 1* Screwdriver

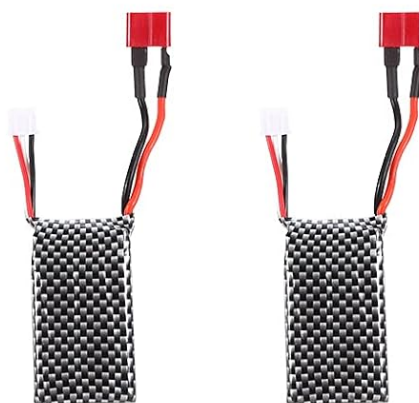
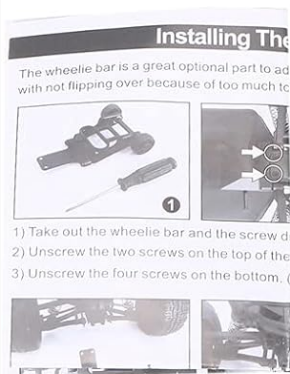


Image: A visual representation of all components included in the product package.

3. PRODUCT FEATURES

The GoolRC 16889A Pro RC Car is equipped with advanced features for enhanced performance and durability:

- **Advanced Protection:** Features charging protection for balanced battery charging, motor anti-blocking, and high-temperature protection to safeguard internal components.
- **High-Speed Brushless Motor:** Equipped with a powerful 2840 brushless motor, capable of reaching speeds up to 45 km/h. Combined with a 1000mAh LiPo battery, 4WD system, and full-scale throttle/steering, it delivers strong power for difficult maneuvers.
- **2.4GHz Remote Control System:** Offers a full-frequency synchronous remote control system with a control distance of up to 120m. Its anti-interference capability allows multiple vehicles to operate simultaneously without

signal disruption.

- **All-Terrain Suspension:** Features hydraulic shock absorbers and adjustable aluminum ring suspension. The entire vehicle is fitted with ball bearings to absorb ground vibrations, enabling smooth operation on various surfaces including rocks, grass, mud, and snow.
- **Durable Metal Parts:** Incorporates numerous metal components such as metal differentials, hydraulic shock absorbers, and metal drive shafts, ensuring lightweight construction while significantly increasing product lifespan.

1/16 4WD Brushless Race Truck 16889A PRO



RTR

Ready To Run

4WD

2.4
GHZ

Qualified
Shocks/
Adjustable
Ring



Ball Bearings



Brushless



**Brand New
Metal Gear**



**Splash Waterproof
Electronics**

Image: Overview of the RC car highlighting its 4WD, brushless motor, and other key specifications.

All Terrain Operation



Image: The RC car demonstrating its all-terrain capabilities on grass, sand, mud, and rocks.

4. COMPONENTS OVERVIEW

4.1 RC Car Components



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

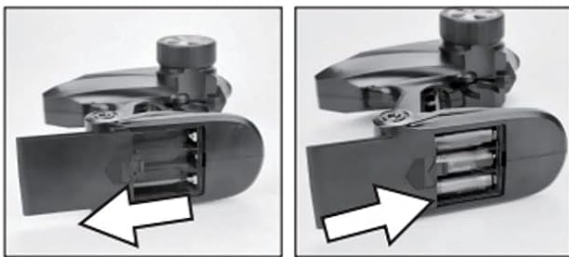
- **Car Cover:** Protects internal components.
- **Non-Slip Tires:** Provide excellent traction on various surfaces.
- **Front and Rear Bumper:** Absorbs impact during collisions.
- **Shock Absorber System:** Dampens vibrations and impacts for smooth driving.
- **2840 Motor:** High-performance brushless motor.
- **Battery Compartment:** Houses the LiPo battery.
- **3 Wires Servo:** Controls steering.
- **Waterproof ESC:** Electronic Speed Controller, designed to be splash-proof.
- **LED Lights:** For visibility and aesthetic.
- **Crash Beam:** Additional protection for the chassis.
- **Rubber Tire:** Durable tires for various terrains.

4.2 2.4GHz Transmitter Overview

24HZ Transmitter Introduction



- 1)Steering Wheel
- 2)Throttle Trigger
- 3)Battery Compartment
- 4)Steering Trim
- 5)Steering Direction Reverse
- 6)Power Indicator(Red)
- 7)ON/OFF Power Switch
- 8)Steering D/R
- 9)Speed selection
- 10)Throttle Forward/backward Reverse
- 11)Power Indicator (Green)
- 12)Bind/Mode Button



Slide and remove the battery cover from the Transmitter. Install three AA size batteries(1.5v,each), and replace the battery cover Do not reverse the polarities when installing Always use batteries of same brand and Remove batteries when not in use. Make sure Battery power is sufficient before use.

Power Indicators(Red/Green):

The lights indicate the current status of the transmitter batteries. When both power indicator lights are illuminated, the batteries have sufficient capacity to power the transmitter safely. If the green power indicator light begins to flash, the batteries are losing power and should be replaced soon. If both power indicator lights begin to flash, the batteries have only limited capacity to power the transmitter. In this case, the batteries should be replaced as soon as is safely possible.

Image: Diagram illustrating the various parts and functions of the remote control transmitter.

1. **Steering Wheel:** Controls the direction of the RC car (left/right).
2. **Throttle Trigger:** Controls forward and reverse movement. Pull to accelerate forward, push to brake/reverse.
3. **Battery Compartment:** Holds the AA batteries for the transmitter.
4. **Steering Trim:** Adjusts the neutral position of the steering. Use if the car pulls to one side when the steering wheel is centered.
5. **Steering Direction Reverse:** Reverses the steering direction.
6. **Power Indicator (Red):** Indicates transmitter power status.
7. **ON/OFF Power Switch:** Turns the transmitter on or off.
8. **Steering D/R (Dual Rate):** Adjusts the maximum steering angle.
9. **Speed Selection:** Adjusts the maximum speed of the RC car. Useful for beginners.
10. **Throttle Forward/Backward Reverse:** Reverses the throttle direction.
11. **Power Indicator (Green):** Indicates transmitter power status.
12. **Bind/Mode Button:** Used for binding the transmitter to the receiver in the car.

Power Indicators (Red/Green): The lights indicate the current status of the transmitter batteries. When both power indicator lights are illuminated, the batteries have sufficient capacity to power the transmitter safely. If the green power indicator light begins to flash, the batteries are losing power and should be replaced soon. If both power indicator lights begin to flash, the batteries have only limited capacity to power the transmitter. In this case, the batteries should be replaced as soon as is safely possible.

5. SETUP

5.1 Transmitter Battery Installation

Slide and remove the battery cover from the Transmitter. Install three AA size batteries (1.5V each), ensuring correct polarity. Replace the battery cover. Do not reverse the polarities when installing. Always use batteries of the same brand. Remove batteries when not in use for extended periods. Make sure battery power is sufficient before use.

5.2 Car Battery Charging and Installation

Connect the provided USB charging cable to the car battery and a suitable USB power source (e.g., computer USB port, USB wall adapter). The charging indicator light will show the charging status. Once fully charged, disconnect the battery. Install the charged battery into the car's battery compartment, ensuring it is securely connected.

5.3 Binding the Transmitter and Receiver

Typically, the transmitter and receiver are pre-bound from the factory. If re-binding is necessary:

1. Ensure the car's battery is connected and the car is powered off.
2. Turn on the transmitter.
3. Press and hold the "Bind/Mode" button on the transmitter.
4. While holding the bind button, turn on the RC car.
5. Release the bind button once the indicator lights on both the transmitter and receiver show a solid connection (refer to specific light patterns in the included manual if different).
6. Test the controls to ensure proper binding.

6. OPERATING INSTRUCTIONS

6.1 Basic Controls

- **Power On:** Turn on the transmitter first, then the RC car.
- **Steering:** Rotate the steering wheel left or right to control the car's direction.
- **Throttle:** Pull the throttle trigger towards you to accelerate forward. Push the throttle trigger away from you to brake, and push again to reverse.
- **Speed Adjustment:** Use the "Speed Selection" dial on the transmitter to adjust the maximum speed. Turn it down for beginners or indoor use, and up for experienced drivers and outdoor high-speed runs.

6.2 Driving Tips

- Always operate the RC car in open areas free from obstacles, people, and pets.
- Avoid driving in wet conditions or through deep puddles, despite the splash-proof electronics, to prevent damage.
- Practice gentle throttle and steering inputs to maintain control, especially at high speeds.

- When driving on uneven terrain, reduce speed to prevent rollovers and excessive stress on components.

6.3 Safety Precautions

- Keep fingers, hair, and loose clothing away from moving parts.
- Do not touch the motor or ESC immediately after use, as they may be hot.
- Always turn off the RC car first, then the transmitter, when finished operating.
- Supervise children during operation. Recommended age is 14 years and up.

Your browser does not support the video tag.

Video: An official product video demonstrating the GoolRC 16889A Pro RC Car in action, showcasing its speed and maneuverability.

7. 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 thoroughly. Use a soft brush or compressed air to remove dirt and debris from the chassis, suspension, and motor area. Avoid using water directly on electronic components.
- **Lubrication:** Periodically inspect and lubricate moving parts such as CV joints and gears. Use RC-specific grease or oil. In dusty/sandy environments, clean and re-grease CV joints often.
- **Battery Care:** Store LiPo batteries in a cool, dry place. Do not overcharge or over-discharge. Always disconnect batteries from the car when not in use.
- **Inspection:** Regularly check for loose screws, damaged wires, or worn parts. Replace any damaged components promptly.
- **Storage:** When storing the RC car for extended periods, remove all batteries from both the car and the transmitter. Store in a dry, cool place away from direct sunlight.

8. TROUBLESHOOTING

If you encounter issues with your GoolRC 16889A Pro RC Car, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Car does not respond to transmitter.	Low battery in car or transmitter; Not bound; Power switch off.	Charge/replace batteries; Re-bind transmitter and receiver; Ensure both power switches are ON.
Car runs slowly or lacks power.	Low car battery; Speed selection set too low; Motor/ESC overheating.	Recharge car battery; Adjust speed selection dial; Allow components to cool down.
Car pulls to one side.	Steering trim needs adjustment; Damaged steering components.	Adjust steering trim on transmitter; Inspect steering linkage and servo for damage.

Problem	Possible Cause	Solution
Unusual noises from the car.	Debris in gears; Worn gears; Loose components.	Inspect and clean gears; Replace worn gears; Tighten loose screws.
Short run time.	Battery not fully charged; Old/damaged battery.	Ensure full charge; Consider replacing battery if capacity has degraded.

9. SPECIFICATIONS

Feature	Detail
Brand	GoolRC
Model Number	16889A Pro
Scale	1:16
Motor Type	Brushless 2840
Max Speed	45 KM/H
Drive System	4WD
Remote Control Frequency	2.4GHz
Control Distance	Up to 120m
Battery Type	LiPo (1000mAh)
Recommended Age	14 years and up
Item Weight	3.67 pounds
Package Dimensions	11.77 x 10.59 x 7.24 inches



13cm

27cm



21.5cm

Image: Diagram illustrating the physical dimensions of the RC car.

10. WARRANTY AND SUPPORT

For any product-related inquiries, technical support, or warranty information, please contact GoolRC customer service. You can also visit the official GoolRC store for additional resources and product information.
Official GoolRC Store: [GoolRC Amazon Store](#)

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