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Radiolink RC4GS V3

Radiolink RC4GS V3 RC Radio Transmitter User Manual

Model: RC4GS V3

INTRODUCTION

This user manual provides comprehensive instructions for the Radiolink RC4GS V3 2.4G 4 Channels RC Radio Transmitter and its accompanying R6FG/R4FGM Gyro Receivers. It covers setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your RC system. The RC4GS V3 is designed for various RC vehicles including crawler trucks, cars, and boats, offering excellent anti-interference capabilities and advanced features.



Figure 1: Radiolink RC4GS V3 Transmitter with R6FG and R4FGM Receivers.

KEY FEATURES

- Excellent Anti-interference:** RC4GS V3 radio with FHSS algorithm ensures superior anti-interference ability, providing a control distance up to 1300 feet.
- Built-in Gyro:** R6FG (6 Channels) and R4FGM (4 Channels) receivers feature integrated gyros to maintain vehicle stability during aggressive acceleration and braking. Gyro sensitivity is adjustable. The R4FGM mini receiver (25x13mm, 3g) is ideal for mini RC cars like 1:28 scale models.
- ABS and Fail-Safe Protection:** Anti-lock brake system prevents vehicle slippage during corner braking. All channels' fail-safe values can be customized.
- Dual Programmable Mix Control:** Easy-to-understand settings allow custom mix control for any two channels, suitable for twin-engine boats or tanks.
- Versatile Vehicle Compatibility:** Stores up to 30 models, each with independent alarming and naming. Assigns 1 of 10 receivers to work separately via the ID SEED menu.

Powerful Capabilities

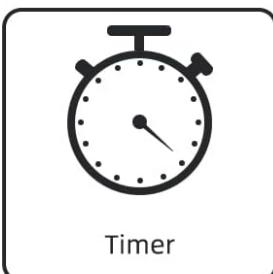
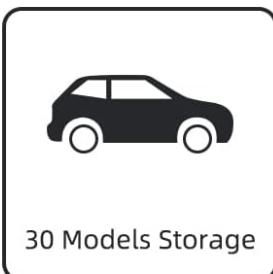


Figure 2: Overview of RC4GS V3's powerful capabilities including 5 channels, 30 models storage, receiver built-in gyro, cruise control, dual mix control, and timer function.

SETUP GUIDE

1. Battery Installation

The RC4GS V3 transmitter supports either 6 AA batteries or a 2S-4S LiPo battery. Ensure correct polarity when inserting batteries.

AA*6 or 2S-4S LiPo

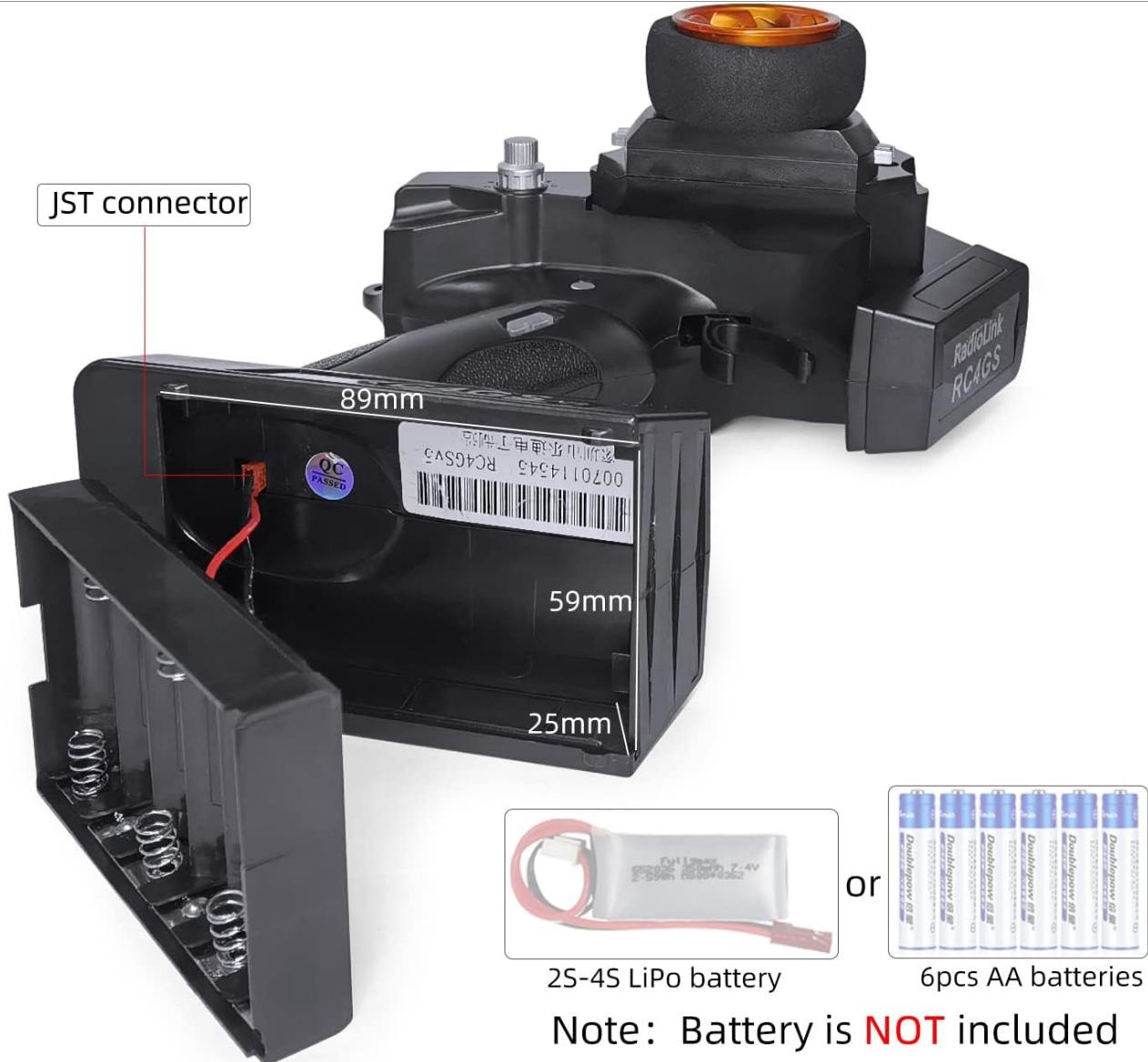


Figure 3: Battery compartment showing options for 6 AA batteries or a 2S-4S LiPo battery. Note: Battery is not included.

2. Receiver Connection

Connect the receiver to your vehicle's components (ESC, servo, etc.) according to the diagram. Ensure all connections are secure.



Gyro Integrated



Figure 4: Diagram of the R4FGM receiver showing channels for steering, throttle, and auxiliary functions, along with telemetry port and bind button.

For detailed receiver connection, refer to the video below. This video demonstrates how to connect the telemetry cable to the receiver and then to the battery and ESC for real-time voltage monitoring.

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Video 1: Receiver Connection Tutorial. This video illustrates the steps to connect the telemetry cable to the receiver and power components for real-time voltage telemetry.

3. Binding the Transmitter and Receiver

To establish communication between the transmitter and receiver, follow these steps:

1. Turn on the transmitter.
2. Press and hold the bind button on the receiver.
3. Power on the receiver. The receiver's LED will flash rapidly.
4. Release the bind button. The LED will now be solid, indicating successful binding.
5. Test the controls to ensure proper function.

OPERATING INSTRUCTIONS

1. Real-Time Voltage Telemetry

The RC4GS V3, when paired with R7FG/R8F receivers, provides real-time telemetry data on the transmitter screen, including vehicle battery voltage, RSSI signal strength, and more. This feature helps prevent battery over-discharge and damage.

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Video 2: Telemetry Vehicle's Voltage on Radio RC4GS V2/RC4GS Screen. This video demonstrates how to view real-time vehicle battery voltage and signal strength on the transmitter display.

2. Dual Rate Function

The Dual Rate function allows you to adjust the servo travel with a single switch, providing flexibility for different driving conditions such as downhill, climbing, or low-speed maneuvers.



Figure 5: Illustration of the Dual Rate function, showing its application in various driving scenarios like downhill, climbing, and low-speed operation.

3. Gyro Functionality

The integrated gyro in the R6FG and R4FGM receivers helps stabilize the vehicle, keeping it in a straight line during aggressive acceleration and braking. The sensitivity of the gyro can be adjusted through the transmitter settings.



Figure 6: Comparison of vehicle stability with and without the integrated gyro, demonstrating how the gyro helps maintain a straight path.

4. Model Storage and Selection

The RC4GS V3 can store settings for up to 30 different models. Each model can have its own unique settings and alarms, making it easy to switch between various RC vehicles. The ID SEED menu allows assigning specific receivers to individual models.

30 Models Memory & 10 ID SEED



Figure 7: The RC4GS V3 transmitter managing settings for multiple RC models, including trucks, cars, and boats, highlighting its 30-model memory capacity.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receivers. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the RC system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Inspection:** Regularly inspect all cables and connectors for signs of wear or damage. Ensure antennas are not bent or broken.

TROUBLESHOOTING

For common issues and their solutions, please refer to the official Radiolink Troubleshooting Guide (PDF) available for download.

- **No Power:** Check battery installation and charge level. Ensure power switch is in the ON position.

- **No Signal/Binding Issues:** Re-attempt the binding process. Ensure transmitter and receiver are within range and free from interference.
- **Erratic Control:** Check all servo and ESC connections. Verify gyro settings and calibration.

[Download Official Troubleshooting Guide \(PDF\)](#)

SPECIFICATIONS

Feature	Detail
Brand	Radiolink
Model	RC4GS V3
Channels	4 (expandable to 5 with V3 firmware)
Frequency	2.4GHz FHSS
Control Distance	Up to 1300 feet (400 meters)
Receivers Included	R6FG (6 Channels) / R4FGM (4 Channels)
Gyro Integrated	Yes (in R6FG/R4FGM receivers)
Model Storage	30 Models
Telemetry Support	Vehicle Voltage, RSSI Signal (with compatible receivers)
Battery Compatibility	6x AA batteries or 2S-4S LiPo

WARRANTY AND SUPPORT

Radiolink Electronic Co., Ltd. is committed to providing high-quality products and excellent customer service. For any inquiries, technical support, or warranty claims, please contact Radiolink Direct store or refer to the online user instructions.

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