

Hobby King GT-2 2.4Ghz 3Ch

HobbyKing GT-2 2.4Ghz 3-Channel Receiver

User Manual

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1. PRODUCT OVERVIEW

The HobbyKing GT-2 2.4Ghz 3-Channel Receiver is designed for use with compatible 2.4Ghz transmitters in remote-controlled car and boat applications. This receiver provides reliable signal reception and features a built-in fail-safe function for enhanced safety. Its compact size and lightweight design make it suitable for various models.

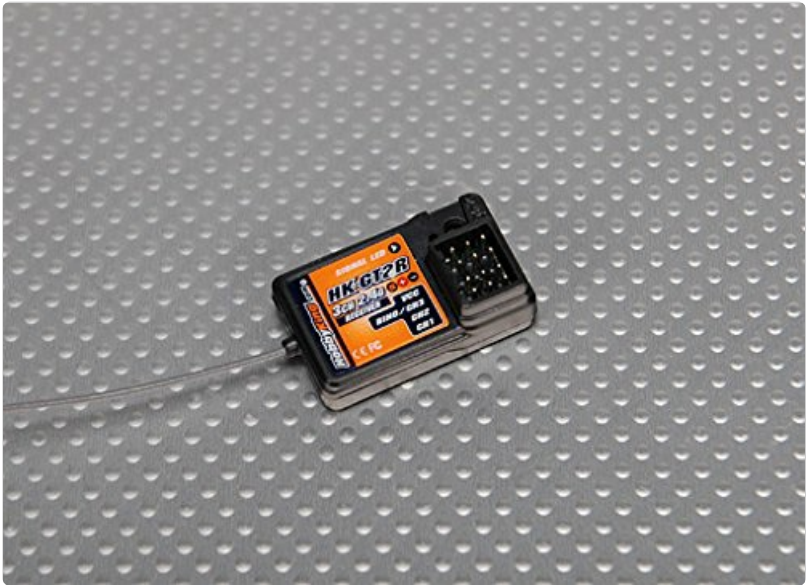


Figure 1: The HobbyKing GT-2 2.4Ghz 3-Channel Receiver. This image shows the compact receiver unit with its antenna and three channel ports.

2. SETUP AND BINDING

Before operating your RC model, the receiver must be properly connected and bound to your compatible 2.4Ghz transmitter.

2.1 Connecting the Receiver

1. **Power Connection:** Connect the receiver to a stable power source (4.5V to 6V DC). This is typically supplied by the

Electronic Speed Controller (ESC) or a dedicated receiver battery pack. Ensure correct polarity.

2. Servo/ESC Connection:

- Connect your ESC (throttle) to Channel 1 (CH1) on the receiver.
- Connect your steering servo to Channel 2 (CH2) on the receiver.
- Channel 3 (CH3) can be used for auxiliary functions if supported by your transmitter and model.

3. **Antenna Placement:** Ensure the receiver antenna is extended and positioned away from metal objects or other electronics to maximize signal range and reliability. Do not cut or modify the antenna.

2.2 Binding Procedure

Binding establishes a unique connection between your transmitter and receiver, preventing interference from other radio systems.

1. Ensure your transmitter is turned **OFF**.
2. Insert the bind plug (usually supplied with your transmitter or receiver) into the "BIND" port on the receiver.
3. Apply power to the receiver (4.5V to 6V DC). The receiver's LED indicator should start flashing rapidly, indicating it is in binding mode.
4. While holding the bind button (or switch) on your transmitter, turn the transmitter **ON**.
5. Observe the receiver's LED. Once the binding is successful, the LED will stop flashing and remain solid.
6. Release the bind button on the transmitter.
7. Turn off the receiver power, then remove the bind plug.
8. Turn off the transmitter.
9. Turn on the transmitter first, then power on the receiver. The receiver LED should illuminate solid, confirming a successful bind. Test all channels to ensure proper function.

Note: The exact binding procedure may vary slightly depending on your specific 2.4Ghz transmitter model. Refer to your transmitter's manual for detailed instructions if needed.

3. OPERATION

Once the receiver is bound and installed, operating your RC model is straightforward.

3.1 Power-Up Sequence

1. Always turn on your transmitter **first**.
2. Then, power on your RC model (which powers the receiver).
3. The receiver's LED should illuminate solid, indicating a strong connection.

3.2 Fail-Safe Function

The GT-2 receiver includes a fail-safe feature designed to protect your model in case of signal loss or low battery voltage from the transmitter. When signal is lost, the fail-safe will automatically return the throttle to a pre-set position (usually neutral or brake) and hold other channels in their last known position or a pre-set position, depending on your transmitter's fail-safe settings. This helps prevent runaway models.

To set or adjust fail-safe positions, refer to your transmitter's instruction manual.

3.3 Power-Down Sequence

1. Always turn off your RC model (receiver power) **first**.

2. Then, turn off your transmitter.

Following this sequence prevents potential runaway situations if the receiver remains powered without a transmitter signal.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your receiver.

- **Keep Dry:** Avoid exposing the receiver to moisture or water. If used in a boat, ensure it is housed in a waterproof enclosure.
- **Cleanliness:** Periodically inspect the receiver for dirt, dust, or debris. Use a soft, dry brush or compressed air to gently clean it. Do not use liquid cleaners.
- **Connection Check:** Regularly check all connections (power, servos, ESC) to ensure they are secure and free from corrosion. Loose connections can lead to intermittent signal loss.
- **Antenna Care:** Ensure the antenna wire is not kinked, cut, or damaged. Proper antenna placement is crucial for optimal range.
- **Storage:** When not in use, store the receiver in a cool, dry place, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your HobbyKing GT-2 receiver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Receiver LED not lighting up.	No power or incorrect power connection.	Check power source (4.5-6V DC) and ensure correct polarity. Verify ESC or battery connection.
Receiver LED flashing rapidly.	Receiver is in binding mode or has lost connection.	Perform the binding procedure again. Ensure transmitter is on and within range.
No response from servos/ESC.	Not bound, incorrect connections, or faulty components.	Confirm successful binding (solid LED). Check servo/ESC connections to correct channels. Test with known working components if possible.
Limited range or intermittent signal.	Antenna obstruction, damage, or environmental interference.	Ensure antenna is fully extended and clear of metal. Check for antenna damage. Avoid operating near strong radio sources.
Receiver gets hot.	Over-voltage or short circuit.	Immediately disconnect power. Verify power input voltage is within 4.5-6V DC. Check for any short circuits in wiring.

6. TECHNICAL SPECIFICATIONS

Detailed specifications for the HobbyKing GT-2 2.4Ghz 3-Channel Receiver:

- **Model:** Car/Boat
- **Channels:** 3ch
- **Frequency Band:** 2.4Ghz
- **Modulation:** GFSK
- **Sensitivity:** 1024

- **RF Receiver Sensitivity:** -100dbm
- **Fail Safe:** Yes
- **Power Input:** 4.5V ~ 6V DC
- **Weight:** 5g (0.18 oz)
- **Antenna Length:** 26mm (1.02 inches)
- **Dimensions (L x W x H):** 37.6 x 22.3 x 13mm (1.48 x 0.88 x 0.51 inches)
- **Certifications:** CE & FCC certified

Product dimensions and weight are approximate and may vary slightly.

7. WARRANTY AND SUPPORT

HobbyKing products are designed for hobby use and are typically covered by a limited warranty against manufacturing defects. For specific warranty terms, duration, and claim procedures, please refer to the official HobbyKing website or contact their customer support directly.

For technical assistance, spare parts, or further inquiries, please visit the [HobbyKing official website](#) or contact their authorized distributors.

Please retain your proof of purchase for any warranty claims.

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