

Turbo Racing RX49

Turbo Racing 2.4GHz 4-Channel Receiver (RX49) User Manual

Model: RX49 | Brand: Turbo Racing

1. INTRODUCTION

This manual provides essential instructions for the proper setup, operation, and maintenance of your Turbo Racing 2.4GHz 4-Channel Receiver (Model RX49). This receiver is designed for use with RC cars and boats, featuring a built-in gyro and failsafe function for enhanced control and safety. Please read this manual thoroughly before use to ensure optimal performance and longevity of your product.

2. PRODUCT OVERVIEW

The Turbo Racing RX49 is a compact and lightweight 4-channel receiver with integrated gyro stabilization and failsafe capabilities. It is compatible with Turbo Racing P52, P32, and P62 transmitters.



Figure 1: Front view of the Turbo Racing RX49 receiver, showing channel ports and control buttons.



Figure 2: Angled view of the Turbo Racing RX49 receiver, highlighting its compact design.

Key Features:

- 4-Channel operation
- Integrated Gyro Stabilization
- Failsafe Function
- Waterproof design
- Compact size: 25 x 20 x 15 mm
- Lightweight: 8g
- Compatibility: Turbo Racing P52, P32, P62 transmitters

3. SETUP AND BINDING

Before operating your RC model, the receiver must be properly bound to your transmitter. Follow these steps carefully:

1. **Connect Power:** Connect the receiver to a power source (e.g., ESC BEC) via the designated power port. Some users have noted that for certain setups, power may need to be connected to Channel 2.
2. **Enter Binding Mode:**
 - Locate the BEC connector terminals on the top side of the receiver.
 - Identify the "PAIR" marking.

- Using a small metal object (e.g., a paperclip or a dedicated shorting plug, which is not included with the receiver), short-circuit the left and center terminals of the BEC connector. This will put the receiver into pairing mode.
 - The indicator light on the receiver should begin to flash rapidly.
3. **Power On Transmitter:** While the receiver is in pairing mode, turn on your Turbo Racing transmitter.
 4. **Confirm Binding:** The indicator light on the receiver should stop flashing and remain solid, indicating a successful binding.
 5. **Test Controls:** After successful binding, test all control surfaces (steering, throttle) to ensure proper communication between the transmitter and receiver.

Important Note: A short-circuit connector is required for binding and is not included with the receiver. You will need to provide your own tool for this step.



Figure 3: Top view of the RX49 receiver, showing the BEC connector terminals for binding (left and center pins marked PAIR).

4. OPERATING INSTRUCTIONS

Once bound, the RX49 receiver is ready for operation. This receiver features an integrated gyro for improved stability and control, especially useful for RC drift cars or boats.

4.1 Gyro Function and Adjustment

The RX49 receiver has a built-in gyro function. If your transmitter does not have a dedicated gyro

adjustment function, you can adjust the gyro sensitivity directly on the receiver:

1. **Activate Gyro:** Long-press the "Gain" button on the receiver. The indicator light will flash rapidly, confirming the gyro is ON.
2. **Increase Gyro Sensitivity:** While the gyro is ON, press the "Gain" button briefly to increase the gyro sensitivity.
3. **Decrease Gyro Sensitivity:** While the gyro is ON, press the "Rev/Nor" button briefly to decrease the gyro sensitivity.

Note: The "Gain" and "Rev/Nor" buttons are small and may require a thin object (like a toothpick or small screwdriver) to press.

4.2 Failsafe Function

The failsafe function is designed to protect your model in case of signal loss. When the signal is lost, the receiver will automatically set the throttle to a pre-defined position (usually neutral or brake) and steering to a neutral position to prevent the model from running out of control. Ensure your failsafe settings are configured correctly according to your transmitter's manual.

5. MAINTENANCE

The Turbo Racing RX49 receiver is designed for durability and features a waterproof specification. Minimal maintenance is required:

- **Cleaning:** Periodically clean the receiver's exterior with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- **Connections:** Ensure all wire connections are secure and free from corrosion.
- **Storage:** Store the receiver in a dry, cool place away from direct sunlight and extreme temperatures when not in use.
- **Water Exposure:** While waterproof, avoid prolonged submersion or exposure to highly corrosive liquids. Always ensure the receiver is dry before connecting power after water exposure.

6. TROUBLESHOOTING

If you encounter issues with your RX49 receiver, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Receiver not binding	Incorrect binding procedure, shorting tool not used, or power connection issue.	Review Section 3 (Setup and Binding). Ensure the left and center BEC terminals are properly short-circuited. Verify power is connected correctly, possibly trying Channel 2 for power if Channel 1 fails.
No control after binding	Binding failed, incorrect channel connections, or transmitter issue.	Re-attempt the binding process. Check all servo and ESC connections to the correct receiver channels. Ensure your transmitter is functioning correctly.
Gyro not functioning or unstable	Gyro not activated, incorrect sensitivity, or external interference.	Ensure the gyro is activated by long-pressing the "Gain" button. Adjust gyro sensitivity as described in Section 4.1. Test in an open area away from strong electromagnetic interference.

Problem	Possible Cause	Solution
Intermittent signal loss	Range issues, interference, or loose antenna.	Ensure the receiver antenna is properly positioned and not obstructed. Operate within the recommended range of your transmitter. Check for other 2.4GHz devices causing interference.

7. SPECIFICATIONS



Feature	Detail
Model	RX49
Channels	4CH
Frequency	2.4GHz
Dimensions (L x W x H)	25 x 20 x 15 mm
Weight	8 g
Features	Integrated Gyro, Failsafe, Waterproof
Compatibility	Turbo Racing P52, P32, P62 Transmitters



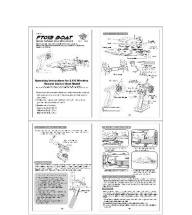
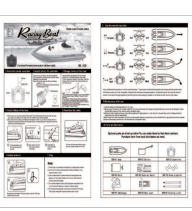
8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Turbo Racing website or contact your retailer. Keep your purchase receipt as proof of purchase.

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Related Documents - RX49

	<p>Turbo Racing P32 4-Channel Radio System Instructions Manual</p> <p>Comprehensive instructions manual for the Turbo Racing P32 4-Channel Radio System, covering setup, operation, specifications, and warranty information.</p>
	<p>Turbo Racing P31 3-Channel Radio System Instructions Manual</p> <p>Comprehensive instructions for the Turbo Racing P31 3-Channel Radio System, covering setup, operation, specifications, and warranty information for RC enthusiasts.</p>

	<p>Turbo Racing 91805G-VT 4-Channel RC System User Manual</p> <p>User manual for the Turbo Racing 91805G-VT 4-channel radio control system, providing detailed instructions on setup, operation, specifications, safety, and maintenance for RC enthusiasts.</p>
	<p>Racing Electronics Receiver and Receiver PRO User Manual</p> <p>This user manual provides detailed instructions for operating and programming the Racing Electronics Receiver and Receiver PRO devices, including channel selection, scan functions, and sub-channel programming.</p>
	<p>FT012 High Speed Racing Boat - Operating Instructions</p> <p>Comprehensive operating instructions for the FT012 High Speed Racing Boat, a 2.4 G Wireless Remote Control Boat Model. Includes setup, operation, maintenance, and safety guidelines.</p>
	<p>HEYUAN Racing Boat NO. 800: User Manual and Operation Guide</p> <p>Comprehensive guide for the HEYUAN Racing Boat NO. 800, covering remote controller operation, battery installation and charging, boat assembly, maintenance, and parts. Learn how to safely operate and care for your radio-controlled boat.</p>