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DUMBORC X6FG

DUMBORC X6FG 2.4G 6-Channel Receiver with Gyro Instruction Manual

Model: X6FG

1. PRODUCT OVERVIEW

The DUMBORC X6FG is a 2.4G 6-channel receiver designed for RC cars, boats, and tanks. It features an integrated gyroscope for enhanced stability and control. This receiver is specifically compatible with DUMBORC X4 and X6 transmitters.

Key Features:

- **6 Channels:** Provides control for up to 6 functions.
- **Integrated Gyroscope:** Offers normal working mode and gyro function working mode for improved directional stability and anti-slip performance.
- **FHSS Signal Spread Spectrum:** Utilizes FHSS technology for stable signal transmission and anti-interference.
- **Fast Transmission Speed:** Achieves a transmission speed of 12ms.
- **Wide Power Supply Range:** Supports 4.8V to 10.0V DC.
- **Long Control Distance:** Capable of control distances exceeding 400 meters on the ground.

Receiver Components:

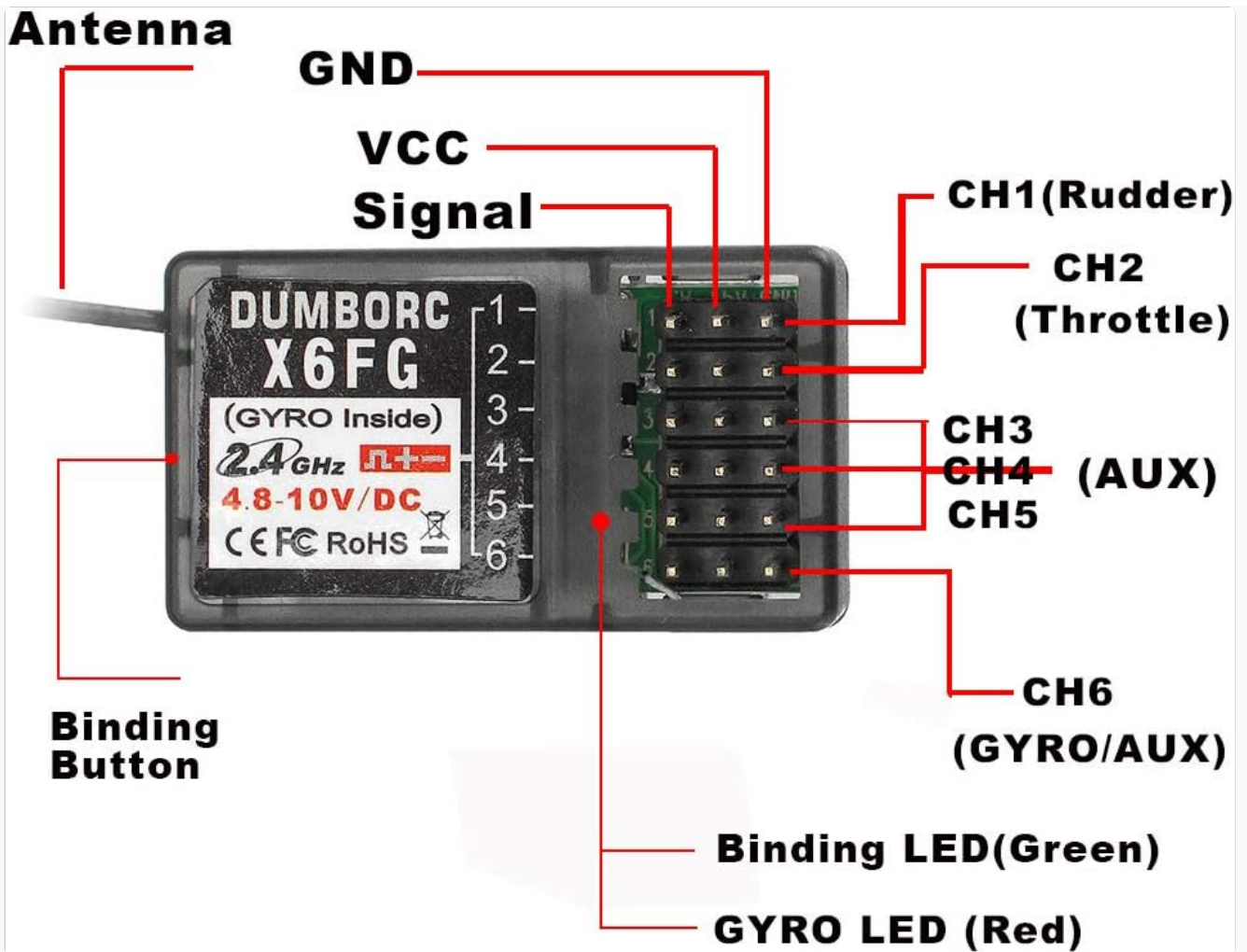


Figure 1: DUMBORC X6FG Receiver with labeled ports. This image shows the various connection points including CH1 (Rudder), CH2 (Throttle), CH3, CH4 (AUX), CH5, CH6 (GYRO/AUX), Antenna, GND, VCC, Signal, Binding Button, Binding LED (Green), and GYRO LED (Red).



Figure 2: Front view of the DUMBORC X6FG receiver, showing the model name, 2.4GHz frequency, and power requirements (4.8-10V/DC).



Figure 3: The compact DUMBORC X6FG receiver held in a hand, illustrating its small size.



Figure 4: Dimensions of the DUMBORC X6FG receiver, showing approximate measurements of 1.37 inches (length), 0.79 inches (width), and 0.51 inches (height).

2. SETUP INSTRUCTIONS

2.1 Initial Connection

1. Connect the steering servo to Channel 1 on the receiver.
2. Connect the Electronic Speed Control (ESC) to Channel 2 on the receiver. Ensure the white wire (signal) is on the left and the black wire (negative) is on the right.
3. Ensure the X6FG receiver remains motionless when powered on, as it performs a self-test.

2.2 Binding with Transmitter (DUMBORC X4/X6)

This receiver is ONLY suitable for DUMBORC X4 and X6 transmitters. If your transmitter and receiver came in a standard pack, they are likely already bound by factory default. If not, follow these steps:

1. Place the transmitter and receiver close to each other (within 50 cm).
2. Turn on the DUMBORC transmitter.
3. Power on the X6FG receiver.
4. Locate the tiny black binding button on the X6FG receiver (next to the antenna).
5. Long-press the binding button for 2 seconds and then release it. The receiver's LED light will start blinking.
6. After blinking approximately 8 times, the receiver signal LED will turn solid green, indicating successful binding.

Video Tutorial: Binding DUMBORC X6FG with X6 Transmitter

Your browser does not support the video tag.

This video demonstrates the step-by-step process of binding the DUMBORC X6FG receiver with a DUMBORC X6 transmitter, including connecting components and pressing the bind button.

Video Tutorial: Binding DUMBORC X4 Radio and X6F Receiver

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This video illustrates the binding procedure for a DUMBORC X4 radio with an X6F receiver, which is similar to the X6FG binding process.

3. OPERATING INSTRUCTIONS

3.1 Gyro Function Modes

The X6FG receiver supports two working modes, indicated by the LED lights:

- **Normal Working Mode:** Indicated by a **green LED**. In this mode, the gyroscope function is not active.
- **Gyro Function Working Mode:** Indicated by a **light green LED**. In this mode, the gyroscope is active, providing directional stability and anti-slip assistance.

3.2 Enabling/Disabling Gyro Function

To turn the gyro function ON or OFF:

1. Quickly press the binding button three times within 1 second.
2. The LED indicator will change from green to light green (or vice-versa), confirming the gyro function has been toggled.

3.3 Adjusting Gyro Sensitivity and Direction

By default, gyro sensitivity is controlled by Channel 6. To adjust sensitivity, turn the knob for Channel 6 on your transmitter. Turning it clockwise increases sensitivity, and counter-clockwise decreases it.

If the gyro direction is reversed (e.g., the wheels turn left when the car is pushed right), quickly press the binding button twice to change the gyro direction.

Video Tutorial: Gyro Mode of DUMBORC X6FG 6CH Receiver

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This video demonstrates how to activate and adjust the gyroscope function on the DUMBORC X6FG receiver, including changing its direction.

4. TROUBLESHOOTING

4.1 Throttle or Steering Not Working

If the steering works but the throttle is not responding, or vice-versa, ensure the "sub-trim of Throttle" on your transmitter is set to 0. If the sub-trim is not at 0, the Electronic Speed Control (ESC) may not recognize the throttle input.

If there is still no throttle response after adjusting the sub-trim, try resetting the transmitter. Additionally, check the ESC: calibrate it and ensure it is in two-way mode with the correct working mode.

Video Tutorial: Why the Throttle or Steering Not Work?

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This video provides guidance on troubleshooting issues where the throttle or steering may not be functioning correctly, focusing on sub-trim adjustments and ESC calibration.

5. SPECIFICATIONS (R6FG RECEIVER)

Feature	Specification
Channels	6
Model Type	Cars/Boats/Tanks
Control Distance	More than 400m
Spread Spectrum	FHSS
Antenna Length	200mm
Work Current	30mA
Power Supply	4.8~10.0V DC
RF Power	<10dbm
Channel Resolution	4096
Size	1.37*0.79*0.51in (35*20*13mm)
Weight	6g

6. MAINTENANCE

To ensure optimal performance and longevity of your DUMBORC X6FG receiver, follow these general maintenance guidelines:

- Keep the receiver clean and free from dust, dirt, and moisture.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Regularly check all connections to ensure they are secure and free from corrosion.
- Store the receiver in a dry, cool place when not in use.

7. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official DUMBORC website or contact your retailer. Keep your proof of purchase for any warranty claims.

