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› DUMBORC X4 RC Radio Transmitter and Receiver User Manual

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DUMBORC X4 RC Radio Transmitter and Receiver User Manual

Model: X4 RC Transmitter and P6F Receiver

INTRODUCTION

The DUMBORC X4 RC Radio Transmitter and P6F Receiver system is designed for remote control of RC cars, boats, and tanks. This 4-channel system offers reliable performance with a comfortable ergonomic design and advanced features for enhanced control.

WHAT'S IN THE BOX

- DUMBORC X4 Transmitter
- P6F Receiver
- Strap

PRODUCT OVERVIEW

The DUMBORC X4 system features a 2.4GHz ISM band transmission frequency with FHSS 67 channel pseudo-random frequency hopping for stable and long-range control.



Figure 1: DUMBORC X4 RC Radio Transmitter, P6F Receiver, and included strap.

Transmitter Features (X4)

- **Ergonomic Design:** Comfortable hand feeling for extended use.
- **4 Channels:** Provides control for steering (Channel 1), throttle (Channel 2), and two additional channels (Channel 3 and Channel 4) for auxiliary functions like lights or other accessories.
- **Built-in Antenna:** Integrated design for durability and convenience.
- **Trim Tabs:** Located under a protective cover for precise adjustments of steering and throttle.
- **Charging Port:** For convenient power supply options.
- **Mixing Function:** Supports 1CH and 2CH mixing for advanced control setups.

Product Channel Design Function Display

X4

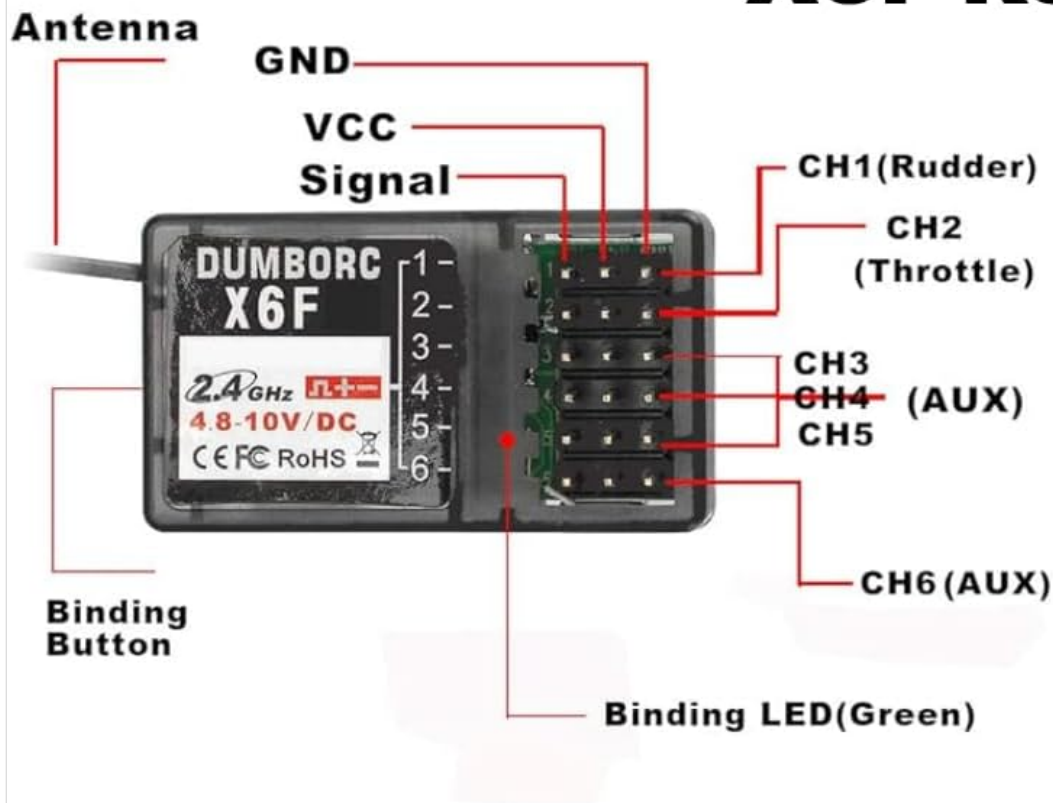


Figure 2: Detailed view of the DUMBORC X4 Transmitter's channel functions and components.

Receiver Features (P6F)

- **6 Channels:** The P6F receiver supports up to six channels, allowing for future expansion with more advanced DUMBORC transmitters.
- **Binding Button:** For easy pairing with the transmitter.
- **Binding LED (Green):** Indicates binding status.
- **Voltage Range:** Operates within 3.3-10V.

X6F Receiver



RC Sling



Figure 3: Diagram illustrating the DUMBORC X6F Receiver's ports and the included RC Sling.

SETUP

1. Powering the Transmitter

The DUMBORC X4 Transmitter can be powered by two methods:

1. **AA Batteries:** Insert 4 x 1.5V AA batteries (not included) into the battery compartment. Ensure correct polarity by aligning the metal terminals.
2. **2S Lithium Battery:** A 2S lithium battery can be used. The controller's lithium battery socket has an anti-reverse insertion function to prevent damage if connected incorrectly.
3. **USB Power Supply:** The controller can also be powered via a USB cable connected to a 5V USB power supply.

Caution: Only use a 5V power supply; higher voltages will damage the remote controller.

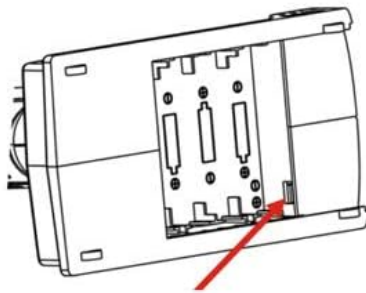
◆ Controller Power Supply

The first type: Dry battery power supply, the controller is equipped with 4 full power 1.5V AA dry batteries, to ensure that the metal terminals on the battery are connected to the metal terminals in the controller battery compartment.



4*1.5V AA Battery (Not Inclided)

The second type: The lithium battery power supply, install 2S lithium battery, the controller Lithium battery socket has anti-reverse insertion function, connect to wrong side between the positive and negative poles will not burn the product.



Lithium Battery socket



Lithium Battery Not Inclided

The third type: Using the USB cable to connect the controller power supply port and mobile power supply (only 5V power supply, otherwise it will burn out the remote controller).



USB Power Supply Port



Figure 4: Illustrations of the DUMBORC X4 Controller's battery compartment for AA batteries and lithium battery socket, along with the USB power supply port.

2. Binding the Transmitter and Receiver

To establish communication between the transmitter and receiver:

1. Ensure the transmitter is powered on.
2. Power up the DUMBORC P6F receiver. The green LED on the receiver will likely be solid.
3. Press the binding button located on the side of the receiver and release it.
4. Within 5 seconds, press and release the receiver button again. This action will bind the receiver to the transmitter. The green LED should now indicate a successful bind (e.g., flashing or solid, depending on the specific receiver state).

Note: The system is designed for easy installation and setting. Many setting videos are available online for further guidance.

Basic Controls

- **Channel 1 (Steering):** Controlled by the steering wheel on the transmitter. Turn the wheel left or right to control the direction of your RC model.
- **Channel 2 (Throttle):** Controlled by the trigger. Pull the trigger to accelerate forward, push it to brake or reverse.
- **Channel 3 & 4 (Auxiliary):** Controlled by the 3-switch design on the transmitter. These channels can be used for additional functions such as lights, winches, or other accessories.

Advanced Adjustments

The transmitter features various adjustment options for fine-tuning control:

- **Trim Controls:** Located under the flip-up cover on the top of the transmitter. These allow for minor adjustments to steering and throttle to ensure the model tracks straight and stops neutrally.
- **Reverse Switches:** For Channel 1 (Steering) and Channel 2 (Throttle), these switches allow you to reverse the direction of the servo or motor if needed.
- **EPA (End Point Adjustment):** For Channel 1 (Steering) and Channel 2 (Throttle), these knobs limit the maximum travel of the steering and throttle, preventing over-steering or excessive speed.
- **Mixing Function:** The transmitter supports 1CH and 2CH mixing functions, which can be set to combine control inputs for more complex maneuvers.



Figure 5: Overview of the DUMBORC X4 Transmitter's adjustment knobs for Channel 1 (Steering) and Channel 2 (Throttle), including reverse and EPA settings.

MAINTENANCE

- Keep the transmitter and receiver clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the components to extreme temperatures, humidity, or direct sunlight.
- When not in use for extended periods, remove AA batteries from the transmitter to prevent leakage.
- Store the system in a dry, safe place.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to transmitter	Dead or incorrectly installed batteries.	Replace batteries or ensure correct polarity. Check USB power connection if applicable.
Receiver not binding	Incorrect binding procedure or receiver not powered.	Ensure receiver is powered. Repeat binding steps carefully.

Problem	Possible Cause	Solution
Loss of signal/Glitching	Interference from other electronics (e.g., speed control) or exceeding control range.	Ensure adequate distance from other electronics. Check for physical obstructions. Do not exceed 400-500m control distance.
Steering/Throttle reversed	Servo direction set incorrectly.	Adjust the reverse switch for the respective channel on the transmitter.

SPECIFICATIONS

Feature	Detail
Model	DUMBORC X4 (Transmitter), P6F (Receiver)
Channels	4CH (Transmitter), 6CH (Receiver)
Material	Plastic and Metal
Modulation Mode	GFSK
Spreading Mode	FHSS 67 channel pseudo-random frequency hopping
Control Distance	400-500 meters
Remote Control Voltage Range	4.8-12V
Remote Control Working Current	80-120mA
Receiver Voltage Range	3.3-10V
Receiver Operating Current	30mA
RF Power	<20dbm
Data Resolution	4096 levels, 0.5us per level
Voltage Alarm	7.4V, 4.8V
Transmission Frequency	2.4GHz ISM band (2400MHz~2483.5MHz)
Product Dimensions (Transmitter)	160 x 100 x 205mm (6.5 x 2.8 x 7.8 inches)
Receiver Size	35 x 20 x 13mm
Item Weight	1.23 pounds
Battery (Transmitter)	4x AA (not included)
Manufacturer Recommended Age	14 years and up

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official DUMBORC website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims. Additional support and setting videos can often be found on online video platforms by searching for "DUMBORC X4" or "DUMBORC RC transmitter binding".

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question