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Flysky FS-R6B

FlySky 2.4Ghz 6CH Receiver FS-R6B Instruction Manual

Model: FS-R6B | Brand: Flysky

INTRODUCTION

This instruction manual provides detailed information for the proper setup, operation, and maintenance of your FlySky 2.4Ghz 6CH receiver, model FS-R6B. This receiver is designed for use with compatible FlySky 2.4GHz transmitters, including the CT6B, FS-T6, and FS-TH9X radio systems. Please read this manual thoroughly before use to ensure safe and optimal performance.

PRODUCT FEATURES

- 2.4GHz radio receiver with Advanced Frequency Hopping Spread Spectrum (AFHSS) technology.
- 6 Channels for versatile control.
- Compatible with FlySky 6CH CT6B PC programmable 2.4GHz transmitters, FS-TH9x/TH9b, and Turnigy 9x v2.
- Modulation Type: GFSK.
- Code Type: PCM.
- Sensitivity: 1024.
- Suitable for various model types including Heli, Airplane, and Gliders.
- Equipped with DSC port and charger port.

PACKAGE CONTENTS

- FlySky receiver FS-R6B X 1

SPECIFICATIONS

Specification	Value
Channels	6 channels
Modulation Type	2.4G, GFSK
Frequency	2.4G
Power Input	5V DC (4x 1.5V AAA, not included)
Product Dimensions	5.1 x 2 x 0.01 inches
Item Weight	0.32 ounces
Country of Origin	China
Manufacturer	FlySky

SETUP GUIDE

1. Power Requirements

The FS-R6B receiver requires a 5V DC power supply. This can typically be provided by 4x 1.5V AAA batteries (not included) or through the power output of your Electronic Speed Controller (ESC) if it has a Battery Eliminator Circuit (BEC).

2. Binding the Receiver

To establish communication between your FS-R6B receiver and a compatible FlySky transmitter, a binding process is required. This usually involves inserting a binding plug into the receiver's 'BIND' port and following the specific binding procedure outlined in your transmitter's manual. Ensure both the receiver and transmitter are powered on during the binding process.

3. Channel Connections

Connect your servos and ESC to the corresponding channels on the receiver. The receiver features 6 channels (CH1-CH6) and a dedicated BAT/BIND port. The outermost pin on each channel port is typically the negative (-) pin.



Figure 1: Top view of the FS-R6B receiver, illustrating the channel ports (CH1-CH6) and the BAT/BIND port. The antenna wire extends from the side.



Figure 2: Angled view of the FS-R6B receiver, providing a clearer look at the pin configuration within each channel port.

Typical Channel Order (for Aircraft):

- **CH1:** Ailerons
- **CH2:** Elevator
- **CH3:** ESC / Motor
- **CH4:** Rudder
- **CH5:** Gyro Sensitivity (for Helicopters) / Optional Function
- **CH6:** Optional Flaps or Dual Ailerons

Note: Always refer to your specific model's requirements and your transmitter's manual for the precise channel assignments.

OPERATING INSTRUCTIONS

Once the receiver is properly bound and connected to your model's components, ensure your transmitter is powered on before powering the receiver. This sequence helps prevent unintended movements. Always perform a range check before flying or operating your model to ensure reliable signal reception.

Failsafe Function

The FS-R6B receiver includes a failsafe function. In the event of signal loss, the failsafe will set the throttle to a predetermined low position (usually off) and other channels to a neutral or safe position to minimize damage. Consult your transmitter's manual for instructions on how to set up and test the failsafe feature.

MAINTENANCE

- **Antenna Care:** The receiver's antenna is crucial for signal reception. Avoid repeatedly bending or folding the antenna cord, especially near where it exits the receiver casing, as this can damage the internal wiring. If the insulation breaks, consider reinforcing the cord with a small amount of hot glue to prevent further damage.
- **Cleanliness:** Keep the receiver free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- **Storage:** Store the receiver in a dry, cool environment away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No signal / Receiver not responding	Not bound to transmitter; Incorrect power connection; Transmitter off.	Ensure receiver is properly bound. Check power supply and connections. Turn on transmitter before receiver.
Short range / Signal loss during operation	Damaged antenna; Interference; Receiver placed too close to noisy components (e.g., ESC, motor).	Inspect antenna for damage and reinforce if necessary. Perform a range check. Relocate receiver away from potential interference sources. Ensure AFHDS (not AFHDS 2A) is used if applicable.
Brown out issues (temporary loss of power/control)	Insufficient power supply; Voltage drops under load.	Ensure adequate power supply (e.g., fully charged batteries, sufficient BEC output). Consider a separate receiver battery if BEC is insufficient.
Incorrect channel response	Incorrect servo/ESC connection; Transmitter channel mixing.	Verify all connections match the correct channel ports. Check transmitter settings for any active mixing.

SAFETY INFORMATION

- Always operate your RC model in a safe and open area, away from people, animals, and obstacles.
- Ensure all components are securely fastened before operation.
- Never operate your model with low battery voltage in either the transmitter or receiver.
- Keep hands and loose clothing away from rotating propellers or moving parts.
- This product is recommended for users aged 14 years and up.

WARRANTY AND SUPPORT

Specific warranty information for the FlySky FS-R6B receiver is typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for any warranty claims.

For technical support or further assistance, please contact your retailer or the official Flysky support channels. You may also find additional resources and FAQs on the Flysky Store or their official website.

