

Futaba FUTK4200

Futaba 4YF 4-Channel 2.4GHz FHSS Transmitter with R2004GF Receiver Instruction Manual

Model: FUTK4200

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Futaba 4YF 4-Channel 2.4GHz FHSS Transmitter and R2004GF Receiver system. Please read this manual thoroughly before use to ensure proper setup and functionality.

The Futaba 4YF system utilizes Frequency Hopping Spread Spectrum (FHSS) technology, designed to minimize signal interference and provide reliable control for your remote-controlled models.

2. PACKAGE CONTENTS

Verify that all components are present in your package:

- Futaba 4YF 4-Channel 2.4GHz FHSS Transmitter
- Futaba R2004GF 4-Channel 2.4GHz FHSS Receiver
- On/Off Switch Harness
- Neck Strap
- Instruction Manual (this document)
- 4 AA batteries (for transmitter)

3. TRANSMITTER OVERVIEW



Figure 1: Front view of the Futaba 4YF 4-Channel 2.4GHz FHSS Transmitter. This image displays the main controls including the two joysticks, trim levers, servo reverse switches, power switch, and battery indicator LEDs.

3.1. Controls and Indicators

- **Joysticks (Sticks):** Control primary functions such as Aileron, Elevator, Throttle, and Rudder.
- **Trim Levers:** Fine-tune the neutral position of each control channel for precise adjustments.
- **Servo Reverse Switches:** Reverse the direction of servo travel for each channel (AIL, ELE, THR, RUD). These are located below the main control panel.
- **Power Switch:** Turns the transmitter on and off. Located on the right side of the transmitter.
- **Battery Meter (LEDs):** A green LED indicates sufficient power, while a red LED indicates low battery status, signaling the need for replacement. Located above the servo reverse switches.
- **Power Down Switch:** Reduces RF power for 90 seconds to simplify ground checks for interference. Located on the left side of the transmitter.

4. SETUP

4.1. Transmitter Battery Installation

1. Open the battery compartment cover on the back of the transmitter.
2. Insert four (4) AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
3. Close the battery compartment cover securely.

4.2. Receiver Installation and Connection

The R2004GF receiver features a flexible coaxial antenna. Position this antenna inside your model for optimal reception, ensuring it is not obstructed by metal or carbon fiber components.

1. Mount the R2004GF receiver securely within your model, away from motors, Electronic Speed Controllers (ESCs), and other potential sources of electrical noise.
2. Connect the servos and other components (e.g., ESC) to the appropriate channels on the receiver. Refer to your model's instructions for specific connections.
3. Ensure the receiver's antenna is routed and secured to maximize signal reception and prevent damage.

4.3. Linking Transmitter and Receiver

The transmitter and receiver link securely with a simple push-button process, eliminating the need for binding plugs.

1. Turn on the transmitter.
2. Power on the receiver.
3. Press and hold the linking button on the receiver until the LED on the receiver changes state (e.g., solid green).
4. Release the button. The system is now linked.
5. Turn off both the receiver and transmitter, then power them on again to confirm the link and proper operation.

5. OPERATING INSTRUCTIONS

5.1. Pre-Flight Checks

- Ensure the transmitter batteries are fully charged or have sufficient power (Green LED illuminated).
- Verify all control surfaces move freely and in the correct direction in response to stick inputs.
- Check for any loose connections, damaged wires, or compromised components on both the transmitter and the model.

5.2. Servo Reversing

The 4YF transmitter features all-channel servo reversing switches. These switches allow you to change the direction of servo travel for Aileron (AIL), Elevator (ELE), Throttle (THR), and Rudder (RUD) channels. This is useful for ensuring control surfaces respond correctly to stick inputs, depending on your model's setup.

- Locate the servo reverse switches on the lower front panel of the transmitter.
- Move the corresponding switch (labeled NOR/REV) to change the servo direction for that specific channel.
- Always test servo direction after making changes to prevent unexpected model behavior.

5.3. Power Down Mode

The Power Down mode temporarily reduces the RF output power of the transmitter for 90 seconds. This

feature is designed to assist in ground checks for potential interference without affecting the normal operation range during flight.

- To activate, press the "POWER DOWN SW" button on the left side of the transmitter.
- The mode will automatically deactivate after 90 seconds, returning to full power output.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents, abrasive cleaners, or excessive moisture, which can damage electronic components.
- **Storage:** Store the system in a cool, dry place, away from direct sunlight, high humidity, and extreme temperatures. Remove batteries from the transmitter if storing for extended periods to prevent leakage.
- **Battery Care:** Replace transmitter batteries promptly when the red LED illuminates to ensure consistent performance. Always use high-quality AA batteries.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Transmitter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh AA batteries.
Receiver not responding to transmitter.	Not linked; receiver not powered; out of range.	Perform linking procedure (Section 4.3); ensure receiver has power; check operating range.
Servos move in the wrong direction.	Incorrect servo reverse switch setting.	Adjust the corresponding servo reverse switch (NOR/REV) as described in Section 5.2.
Intermittent control or signal loss.	Interference; damaged antenna; low transmitter battery.	Check for local interference sources; inspect receiver antenna for damage; replace transmitter batteries.

8. SPECIFICATIONS

- **Model:** FUTK4200
- **Channels:** 4
- **Frequency:** 2.4GHz FHSS (Frequency Hopping Spread Spectrum)
- **Transmitter Power:** 4 AA batteries (included)
- **Receiver:** R2004GF (4-Channel, 2.4GHz FHSS)
- **Dimensions (Transmitter):** Approximately 4.75 x 10.25 x 16 inches (12.07 x 26.04 x 40.64 cm)
- **Weight (Transmitter):** Approximately 2.05 pounds (0.93 kg)
- **Manufacturer:** Hobbico Inc.
- **Recommended Age:** 15 years and up

9. WARRANTY INFORMATION

This Futaba product is covered by a one-year limited warranty from the date of purchase. The warranty covers manufacturing defects under normal use. It typically excludes damage resulting from misuse,

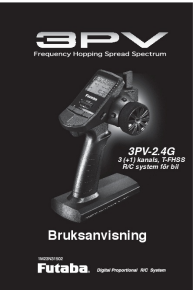


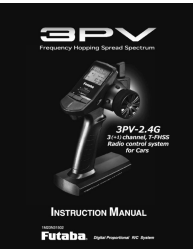

accidents, unauthorized modifications, or normal wear and tear. For warranty claims or service, please retain your proof of purchase and contact Hobbico Inc. customer support.

10. SUPPORT

For technical assistance, troubleshooting guidance beyond this manual, or further inquiries, please refer to the official Futaba or Hobbico Inc. support channels. Contact information can typically be found on the manufacturer's website or product packaging. Online resources may include FAQs, additional manuals, and service request forms.

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Related Documents - FUTK4200

	<p>Futaba 3PV-2.4G T-FHSS RC System User Manual</p> <p>Comprehensive user manual for the Futaba 3PV-2.4G T-FHSS 3-channel RC system for cars, covering safety, installation, setup, functions, and specifications.</p>
	<p>Futaba 8J-2.4GHz 8-Channel Radio Control System Instruction Manual</p> <p>Comprehensive instruction manual for the Futaba 8J-2.4GHz 8-Channel Radio Control System. Covers setup, operation, programming, and safety for both ACRO (airplane) and HELI modes.</p>
	<p>Futaba R314SB T-FHSS 4-Channel Receiver for Model Cars - Manual & Specifications</p> <p>Comprehensive guide to the Futaba R314SB T-FHSS 2.4GHz S.BUS2 4-channel receiver for model cars, including setup, linking, features, and specifications.</p>
	<p>Futaba 3PV-2.4G Radio Control System Instruction Manual</p> <p>Comprehensive instruction manual for the Futaba 3PV-2.4G T-FHSS radio control system, detailing setup, operation, safety, functions, and troubleshooting for RC cars.</p>
	<p>Futaba T6PV Digital Proportional R/C System Manual</p> <p>Comprehensive user manual for the Futaba T6PV Digital Proportional R/C System, covering setup, operation, features, and safety guidelines for radio-controlled vehicles.</p>



[Futaba 4EX 4-Channel FM Radio Control System Instruction Manual](#)

Comprehensive instruction manual for the Futaba 4EX 4-channel FM radio control system for aircraft. Covers setup, programming, safety guidelines, and accessories for RC model enthusiasts. Visit <http://www.futaba-rc.com> for updates.