Futaba T10J

Futaba T10J 10-Channel 2.4GHz T-FHSS AIR Transmitter and Receiver Set (Mode 2) Instruction Manual

1. Introduction

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Futaba T10J 10-Channel 2.4GHz T-FHSS AIR Transmitter and Receiver Set. This system is designed for advanced radio control applications, particularly for helicopters, and operates in Mode 2 (left throttle configuration). Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. Safety Precautions

WARNING: Failure to follow these safety precautions may result in serious injury or property damage.

- Always operate your RC model in a safe, open area, away from people, animals, and obstacles.
- Ensure all batteries (transmitter and model) are fully charged before each use.
- Never operate your RC model near power lines, roads, or residential areas.
- Keep the transmitter and receiver away from moisture, dust, and extreme temperatures.
- Verify all control surfaces move correctly and in the proper direction before flight.
- Do not attempt to modify the transmitter or receiver. Unauthorized modifications can lead to malfunction and void the warranty.
- Always turn on the transmitter first, then the receiver. When finished, turn off the receiver first, then the transmitter.

3. Product Overview

The Futaba T10J system utilizes 2.4GHz T-FHSS AIR technology, offering reliable communication and telemetry capabilities. The set includes the T10J transmitter and a compatible receiver.

Figure 1: Futaba T10J 10-Channel 2.4GHz T-FHSS AIR Transmitter. This image displays the front view of the Futaba T10J transmitter, highlighting its dual stick controls, various switches, and a digital display screen. The top left corner features the 'T-FHSS AIR Telemetry System' logo, indicating its advanced communication capabilities. The display shows 'ST1: 0:00.0 TFHSS', 'ST2: 0:00.0', and 'MOL 12:34', suggesting timer and system status information. The transmitter is labeled 'T10J Digital Proportional R/C System' and features the Futaba brand logo prominently.

3.1 Transmitter Features

- 10-channel 2.4GHz T-FHSS AIR system.
- Telemetry functions for real-time data feedback (e.g., battery voltage, temperature).
- Large LCD display for easy menu navigation and data viewing.
- User-assignable switches and knobs.
- Model memory for storing multiple model settings.

3.2 Receiver Features

- Compact and lightweight design.
- Full-range operation.
- Integrated telemetry sensor ports (depending on receiver model).

4. Setup

4.1 Transmitter Battery Installation

1. Open the battery cover on the back of the transmitter.
2. Insert four 'AA' size alkaline batteries, ensuring correct polarity (+/-).
3. Close the battery cover securely. For rechargeable batteries, ensure they are fully charged using an appropriate charger.

4.2 Receiver Installation and Connections

1. Mount the receiver securely in your model, away from vibration and heat sources.
2. Ensure the receiver antenna is positioned correctly, following the model's instructions for optimal signal reception.
3. Connect servos to the corresponding channels on the receiver. Refer to your model's manual for specific

servo assignments.

4. Connect the Electronic Speed Controller (ESC) or receiver battery to the designated power port on the receiver.

4.3 Binding Procedure (Linking Transmitter and Receiver)

1. Turn on the transmitter.
2. Power on the receiver while holding down the F/S (Fail-Safe) button on the receiver.
3. The receiver's LED will flash, indicating it is in binding mode.
4. On the transmitter, navigate to the 'System Menu' and select 'Linkage'.
5. Initiate the binding process on the transmitter.
6. Once binding is complete, the receiver's LED will turn solid green.
7. Turn off both the receiver and transmitter, then power them on again (transmitter first, then receiver) to confirm the link.

5. Operating Instructions

5.1 Basic Controls (Mode 2)

- **Left Stick (Throttle/Rudder):** Vertical movement controls throttle (power), horizontal movement controls rudder (yaw).
- **Right Stick (Aileron/Elevator):** Vertical movement controls elevator (pitch), horizontal movement controls aileron (roll).
- **Switches and Knobs:** Refer to your model's specific setup for assigned functions (e.g., flight modes, gear, flaps).

5.2 Display Navigation

The T10J features an intuitive LCD display and a jog dial/button combination for menu navigation.

- Rotate the jog dial to scroll through menu options.
- Press the jog dial to select an option or confirm a setting.
- Use the 'End' button to return to the previous menu or exit a setting.

5.3 Model Memory Selection

1. From the home screen, access the 'Model Select' menu.
2. Use the jog dial to choose the desired model memory slot.
3. Confirm your selection. Ensure the correct model is loaded before operating your RC model.

5.4 Telemetry Functions

The T-FHSS AIR system supports telemetry, allowing you to monitor real-time data from your model on the transmitter's display. This can include receiver battery voltage, external battery voltage, temperature, and more, depending on the sensors installed in your model.

- Access the 'Telemetry' menu on the transmitter to view live data.
- Configure alarms for critical parameters (e.g., low battery voltage) to receive alerts during operation.

6. Maintenance

6.1 Cleaning

- Wipe the transmitter and receiver with a soft, dry cloth.
- Do not use solvents or abrasive cleaners, as they may damage the surfaces.

6.2 Battery Care and Storage

- Remove batteries from the transmitter if it will not be used for an extended period.
- Store batteries in a cool, dry place.
- Follow manufacturer guidelines for charging and discharging rechargeable batteries.

7. Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh batteries.
No control response from model.	Receiver not bound, receiver not powered, or incorrect model memory selected.	Perform binding procedure; check receiver power connection; select correct model memory.
Servo moves in the wrong direction.	Servo reverse setting is incorrect.	Adjust the servo reverse setting in the transmitter's menu.
Intermittent signal loss.	Antenna obstruction, range issue, or interference.	Ensure clear line of sight to model; check antenna placement; avoid areas with known interference.

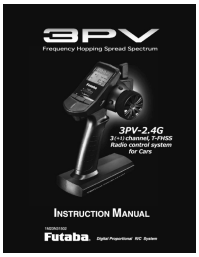
8. Specifications

- **Model:** T10J
- **Channels:** 10
- **Communication System:** 2.4GHz T-FHSS AIR
- **Operating Mode:** Mode 2 (Left Throttle)
- **Product Dimensions:** 26.59 x 26.01 x 12.19 cm
- **Product Weight:** 1.22 kg
- **ASIN:** B00O8DI34U
- **First Available Date:** October 7, 2014

9. Warranty and Support

For warranty information and technical support, please refer to the official Futaba website or contact your local Futaba distributor. Keep your proof of purchase for warranty claims. Do not attempt to repair the unit yourself, as this may void the warranty.

Related Documents - T10J

	Futaba 3PV-2.4G T-FHSS RC System User Manual Comprehensive user manual for the Futaba 3PV-2.4G T-FHSS 3-channel RC system for cars, covering safety, installation, setup, functions, and specifications.
	Futaba 8J-2.4GHz 8-Channel Radio Control System Instruction Manual 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.
	Futaba R314SB T-FHSS 4-Channel Receiver for Model Cars - Manual & Specifications Comprehensive guide to the Futaba R314SB T-FHSS 2.4GHz S.BUS2 4-channel receiver for model cars, including setup, linking, features, and specifications.
	Futaba 3PV-2.4G Radio Control System Instruction Manual Comprehensive instruction manual for the Futaba 3PV-2.4G T-FHSS radio control system, detailing setup, operation, safety, functions, and troubleshooting for RC cars.
	Futaba T6PV Digital Proportional R/C System Manual Comprehensive user manual for the Futaba T6PV Digital Proportional R/C System, covering setup, operation, features, and safety guidelines for radio-controlled vehicles.
	Futaba T6K-V3S Transmitter: Version 3S Update Features This document details the new features and enhancements introduced in version 3S for the Futaba T6K-V3S radio control transmitter, including updates for glider and helicopter models, new switch functions, and timer capabilities.