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## Futaba Electronics Industrial R7308SB

# Futaba R7308SB FASSTest 2.4GHz S.BUS2 Receiver

## INSTRUCTION MANUAL

### 1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Futaba R7308SB FASSTest 2.4GHz S.BUS2 Receiver. The R7308SB is an 8-channel receiver equipped with a FASST dual Rx link system and a high-gain diversity antenna, designed for reliable radio control applications.

Please read this manual thoroughly before using the receiver to ensure safe and efficient operation. Keep this manual for future reference.



Figure 1: Front view of the Futaba R7308SB receiver, showing the model number, LED indicators, and port labels.

### 2. Setup

## 2.1 Unpacking and Inspection

Carefully remove the receiver from its packaging. Inspect the receiver for any visible damage. If any damage is found, do not proceed with setup and contact your retailer.

## 2.2 Power Supply Requirements

- **Rated Power Supply:** 3.7 - 7.4 V (batteries not included).
- **Working Voltage Range:** 3.5 - 8.4 V.
- This product does not include batteries or a charger. Ensure your power source meets these specifications.

## 2.3 Antenna Installation

The R7308SB features a diversity-style sleeve antenna. For optimal performance, ensure the antennas are positioned at a 90-degree angle to each other and are not obstructed by carbon fiber, metal, or other conductive materials. Avoid bending the antenna tips sharply.



Figure 2: The R7308SB receiver with its dual sleeve antennas extended, illustrating proper antenna orientation for diversity reception.

## 2.4 Connecting the Receiver

The R7308SB supports S.BUS2 input/output and conventional system output (channels 1-8). Connect your servos and other components to the appropriate ports as indicated on the receiver body.

- **S.BUS2 Port:** For connecting S.BUS2 compatible devices.
- **Conventional Ports (1-8):** For standard PWM servos and devices.
- **External Voltage Port:** A standard connector for monitoring external voltage (0~70VDC).



Figure 3: Detailed view of the receiver's output ports, including S.BUS2 and conventional channels 1-8.

## 2.5 Binding (Linking) the Receiver

To establish communication between the receiver and your Futaba FASSTest 2.4GHz transmitter, a binding procedure is required. Refer to your transmitter's instruction manual for specific binding steps. Generally, this involves placing both the transmitter and receiver into a binding mode. The receiver's LED indicator will confirm successful binding.



Figure 4: Top view of the R7308SB, highlighting the LED indicator and the Link/Mode button used during the binding process.

## 3. Operating

### 3.1 FASSTest 2.4GHz System

The R7308SB operates on the FASSTest 2.4GHz system, supporting both 18-channel and 12-channel modes. Ensure your transmitter is set to a compatible mode.

### 3.2 S.BUS2 Functionality

The S.BUS2 system allows for two-way communication, enabling telemetry functions with compatible sensors (sold separately). Connect S.BUS2 devices to the designated S.BUS2 port.

### 3.3 Battery Failsafe (F/S) Voltage Setting

The Battery Failsafe voltage can be set from your transmitter. This feature ensures that if the receiver's voltage drops below a set threshold, the system will activate failsafe settings (e.g., throttle to idle, servos to a predetermined position) to prevent loss of control. Consult your transmitter's manual for instructions on setting the F/S voltage.

### 3.4 External Voltage Monitoring

The receiver includes a standard connector for an external voltage port, allowing monitoring of voltages from 0 to 70VDC. This is useful for monitoring main battery voltage in your model.

## 4. Maintenance

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The Futaba R7308SB receiver is a precision electronic device. Proper care will ensure its longevity and reliable performance.

- Keep the receiver clean and free from dust, dirt, and moisture.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Do not attempt to open the receiver casing, as this may void any warranty and could damage internal components.
- Ensure all connections are secure before each use.
- This product does not use or include batteries, fuel, chargers, paint, glue, oil, or grease, therefore no maintenance related to these items is required for the receiver itself.

## 5. Troubleshooting

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If you encounter issues with your R7308SB receiver, consider the following common troubleshooting steps:

- **No Signal/Loss of Control:**
  - Verify that the receiver is properly bound to the transmitter. Re-bind if necessary.
  - Check the power supply to the receiver. Ensure voltage is within the specified working range (3.5-8.4V).
  - Inspect antenna placement. Ensure they are not damaged, obstructed, or improperly routed.
  - Check for potential radio interference from other electronic devices.
- **Servos Not Responding:**
  - Ensure servos are correctly plugged into the appropriate channels (1-8 or S.BUS2).
  - Check servo connections for looseness or incorrect polarity.
  - Test servos with a different receiver or servo tester to rule out servo issues.
- **Failsafe Activation:**
  - If failsafe activates unexpectedly, check the receiver's input voltage. It may be dropping below the set F/S voltage.
  - Review your transmitter's Failsafe settings.

For persistent issues, consult the Futaba support resources or contact your retailer.

## 6. Specifications

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Feature	Specification
Model Number	R7308SB (Item Model Number: 036842)
System	FASSTest 2.4GHz (18ch/12ch mode)
Channels	8 Channels (Conventional System Output ch1-8)
Input/Output	S.BUS2 Input/S.BUS Output
Antenna	Diversity Style, Sleeve Antenna
Dimensions (L x W x H)	24.9 x 38.8 x 14.3 mm (0.98 x 1.53 x 0.56 inches)
Weight	11.0 g (0.39 ounces)
Rated Power Supply	3.7 - 7.4 V (batteries not included)
Working Voltage Range	3.5 - 8.4 V
Battery F/S Voltage	Set from transmitter
External Voltage Port	Standard connector (0~70VDC)
Manufacturer Recommended Age	15 years and up

## 7. Warranty and Support

For warranty information and technical support, please contact your authorized Futaba dealer or the manufacturer directly. Keep your proof of purchase for warranty claims.

**Manufacturer:** Futaba Electronics Industrial

For the latest information and updates, please visit the official Futaba website.

