Thank you for purchasing a Futaba R7014SB Futaba transmitter using the 1M23N32201 (Antenna installation) guide.

### Usage precaution
- Analog servos cannot be used with the R7014SB in the FASSTTest 12CH mode.
- When the FASST Multi-ch High-speed Mode is used, analog servos cannot be used at the CH1 ~ 6 outputs for conventional systems. However, in other than the FASSTTest 12CH mode, analog servos can be used at CH7-12, DG1 and DG2 at any time.
- Don’t connect to Extra Voltage Telemetry Port before turning on a receiver.

### Antenna installation precaution
- Do not cut or bundle the receiver antenna wire.
- Do not bend the coaxial cable. It causes damage.
- The antenna must be mounted in such a way that they are strain relieved.
- Keep the antenna as far away from the motor, ESC and other noise sources as you possibly can.
- Be sure that the two antennas are placed at 90 degrees to each other.

### Antenna installation for carbon fuselage
- You must leave 30mm at the tip of the antenna fully exposed. The exposed antenna should be secured so that it cannot move around or be retained inside of your aircraft.

### Be careful of connector insertion
- Don’t connect an S.Bus servo / gyro to S.BUS2 connector.
- Do not connect the power supply battery to other than the power supply connector.
- There is the danger of ignition, explosion, or burning.

### Link precaution
- Do not perform the linking procedure while the motor’s main power is connected or the engine is operating as it may result in serious injury.
- When the linking is complete, please cycle the receiver power and ensure the receiver is properly linked to the transmitter.
- Please power up your system in this order. Transmitter first, followed by the receiver.
- If the R7014SB receiver was previously linked to another transmitter, make sure that transmitter is not operating while linking the receiver to the new transmitter.

### Compliance Information Statement (for U.S.A.)
This device complies with part 15 of the FCC Rules. Operation is subject to the following three conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.
3. RF Exposure Information (SAR)

### R7014SB Specifications
- **FASSTTest-2.4GHz system**: (14ch/12ch mode)
- **FASST-2.4GHz system**: (Multi-ch mode)
- Weight: 0.7 oz. (20.8g)
- Size: 1.5 x 2 x 0.6 in. (37.0x50.2x15.9mm)
- **Dual antenna diversity**
- **Extra Voltage port**: 0V-70V DC
- **Extra Voltage function**: doesn’t work properly when other type battery is used.
- **Battery F/S function**: doesn’t work properly when other type battery is used.
- **Battery F/S Voltage**: Battery F/S voltage is set for 4-cell NiCd/NiMH battery.
- **Battery F/S function**: doesn’t work properly when other type battery is used.
- **Extra Voltage port**: 0V-70V DC

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**LED Indication**

<table>
<thead>
<tr>
<th>System</th>
<th>Mode LED</th>
<th>Status</th>
<th>Link LED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FASST</strong></td>
<td><strong>Green</strong></td>
<td>No signal reception</td>
<td>Red Solid</td>
</tr>
<tr>
<td></td>
<td><strong>Solid</strong></td>
<td>Receiving signals</td>
<td>Green Solid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Waiting for link</td>
<td>Start → 2 seconds later → Red Blinks (1 second)</td>
</tr>
<tr>
<td><strong>FASST</strong></td>
<td><strong>Off</strong></td>
<td>No signal reception</td>
<td>Red Solid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Receiving signals</td>
<td>Green Solid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Receiving signals but ID is unmatched</td>
<td>Green Blinks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Waiting for link</td>
<td>Red Blinks</td>
</tr>
<tr>
<td><strong>FASST</strong></td>
<td><strong>Test</strong></td>
<td>Unrecoverable error (EEPROM, etc.)</td>
<td>Alternate Blinks</td>
</tr>
</tbody>
</table>

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**Connector**

The direction of the connectors of the bottom 3 ports is different by 90°.
FASST \( \Rightarrow \) FASST (Normal-Hi-speed) Change method
1. Turn on the receiver. (Transmitter OFF)
2. Press and hold the Link/Mode button for at least 5 seconds.
3. When the link LED begins to blink green/red the button may be released.
4. The link LED should now be blinking red in one of the patterns described by the chart below. (Default: FASSTest)
5. Each press of the Mode/Link button advances the receiver to the next mode.
6. When you reach the mode that you wish to operate in, press and hold the Mode/Link button for more than 2 seconds.
7. Once locked into the correct mode the link LED will change to a solid color.
8. Please cycle the receiver(s) power off and back on again after changing the Channel Mode.

<table>
<thead>
<tr>
<th>Link LED Red blink</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 time</td>
<td>FASST</td>
</tr>
<tr>
<td>2 time</td>
<td>FASST Multi-ch Normal mode</td>
</tr>
<tr>
<td>3 time</td>
<td>FASST Multi-ch High-speed mode</td>
</tr>
</tbody>
</table>

*Fixed at neutral if a servo is connected to a port other than a usable transmitter channel.
*The telemetry and Extra Voltage ports cannot be used with the FASST system.

FASST Test
FASSTest is a bidirectional communication system between the R7014SB receiver and FASSTest capable transmitters. Multiple optional telemetry sensors may be connected to the S.BUS2 on the receiver and that data is in turn displayed on the transmitter.

*Please see your transmitter's operation manual to configure transmitter to operate with telemetry sensors.

FASST
When switched, the R7014SB can use the FASST-Multi-ch mode. When the FASST system is used, the telemetry and Extra Voltage ports cannot be used. The FASST system has a Normal mode and a High-speed mode. However, in the High-speed mode, analog servos cannot be used at CH1-6.

Link to the transmitter : FASST Test
1. Bring the transmitter and the receiver close to each other, within 20 inches (half meter).
2. Turn on the transmitter. Place the transmitter into the receiver linking mode.
3. Turn on the receiver.
4. The receiver will wait for the linking process to begin for 2 seconds. Following that it will return to the normal operation mode.
5. When the link LED of the receiver changes from blinking red to solid green, linking is complete. (A link waiting state is ended in 1 second.)
   • Refer to the transmitter's operation manual for complete details on how to place the transmitter into the linking mode.
   • If there are many FASSTest systems turned on in close proximity, your receiver might have difficulty establishing a link to your transmitter. This is a rare occurrence. However, should another FASSTest transmitter/receiver be linking at the same time, your receiver could link to the wrong transmitter. This is very dangerous if you do not notice this situation. In order to avoid the problem, we strongly recommend you to double check whether your receiver is really under control by your transmitter.
   • If the System Type of the transmitter is changed, the receiver will need to be re-linked to the transmitter.

S.BUS
S.BUS2 extends S.BUS and supports bidirectional communication. Sensors are connected to the S.BUS2 port.

*Only S.BUS2 capable devices may be connected to the S.BUS2 port. Standard S.BUS servos and gyros should not be connected to the S.BUS2 port.

Extra Voltage telemetry port
It connects with the battery for power, etc.
An optional external voltage input cable (CA-RVIN-700) is used. The voltage of the battery can be displayed with a transmitter.

When a telemetry adapter (TMA-1) is used : FASSTest only
When using a TMA-1 (sold separately), change the settings by the following method.
The TMA-1 is a device for viewing the telemetry data on a smartphone or tablet.

R7014SB and TMA-1 linking method
1. Switch the receiver to FASSTest system.
2. Link the transmitter and receiver, and after confirming operation, turn off the power.
3. Turn on the receiver power. (Transmitter power off)
4. Press the Link/Mode switch for at least 10 seconds.
5. When the link LED begins to blink green the button may be released.
6. The receiver enters the linked with TMA-1 mode, and the LED simultaneously begins to rapidly blink red and green.
7. Press the TMA-1 link switch until the LED starts to blink and wait for the TMA-1 to link.
8. When TMA-1 linking is complete, the TMA-1 LED changes from red to green for a moment.
9. When linking is complete, turn on the receiver power and check the operation of all the devices.