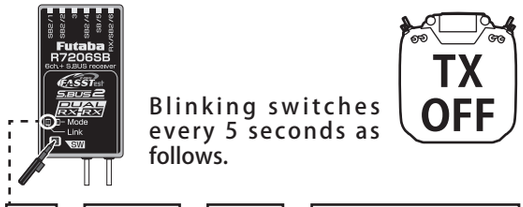
FASSTest12CH(Telemetry OFF) mode

This mode is forcibly turning off telemetry transmission to prevent collision of telemetry signals from the receiver to the transmitter when using dual RX link mode in FASSTest12ch mode.

1 Turn on the receiver. [Transmitter is always OFF]

2 Press and hold the SW for 5 seconds or more.



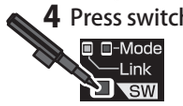
Blinking switches every 5 seconds as follows.

RED⇒ORANGE⇒GREEN⇒ORANGE slow blink

3 Release the switch here

Blinks ORANGE once

4 Press switch



Blinks ORANGE twice

5 Press and hold the SW

Blinks ORANGE

6 Release SW

Solid ORANGE

7 Turn off the receiver power

FASSTest12CH(Telemetry OFF) mode : OFF

Press SW once more to return to flashing orange once

FASSTest12CH(Telemetry OFF) mode : ON

Change to this mode when using FASSTest12CH in dual RX link mode.

Check After restarting, the LINK LED lights up.

In FASSTest12CH Telemetry OFF Mode

Status	LINK LED
Start	Orange Solid

How to Dual Rx Link

1 Install two receivers on the aircraft as shown in the connection example.

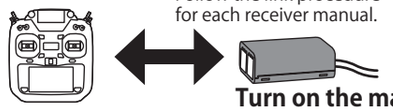
2 Link the two receivers using the dual receiver feature of the transmitter.

For systems without dual receiver capability, link each receiver in turn.

Transmitter in link mode

For FASSTest 16ch Select dual mode and link primary

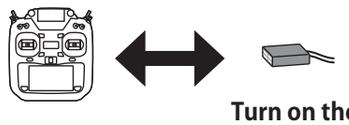
*Follow the link procedure for each receiver manual.



Turn on the main receiver and link

Transmitter in link mode

For FASSTest 16ch Select dual mode and link secondary



Turn on the sub receiver and link

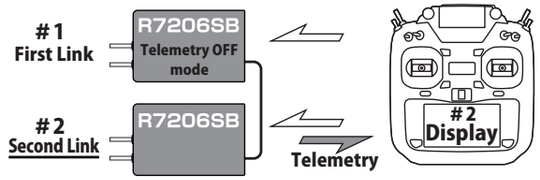
◆ About telemetry system

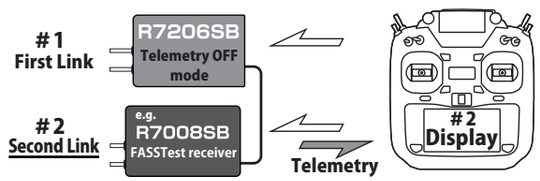
When using the dual receiver function

- The telemetry function of the main receiver can be used
- Sub-receiver telemetry function is not available

Telemetry for FASSTest12CH

In FASSTest12CH mode, after linking R7206SB in telemetry OFF mode, link the receiver you want telemetry to. (The transmitter will show the telemetry of the last linked transmitter.)





#2 Telemetry display of second-linked receiver.
#1 Telemetry OFF first-Linked receiver.

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1M23N36208

Futaba®

R7206SB

- **FASSTest-2.4GHz Bidirectional Communication System**
- **Dual Rx Link System Equipment**
- **S.BUS2 / S.BUS Port and 6 Channels for Conventional System Receiver**

● Applicable systems: Futaba FASSTest-2.4GHz system transmitter

Thank you for purchasing a Futaba **R7206SB FASSTest-2.4GHz** compatible receiver. The **R7206SB** receiver features bi-directional communication with a **FASSTest** Futaba transmitter using the **S.BUS2** port. Using the **S.BUS2** port an impressive array of telemetry sensors may be utilized. It also includes both standard PWM output ports (1-6ch) and **S.BUS** output ports. The **R7206SB** can also be switched to the **Dual Rx Link** System. This system can ensure safety by mounting two **FASSTest** receivers on one aircraft.

Usage precaution

- Analog servos cannot be used with the R7206SB in the FASSTest 12CH mode.

⚠ WARNING

❗ Changes or modification not approved by the party responsible for compliance could void the user's authority to operate the equipment.

❗ The R7206SB receiver should be protected from vibration by foam rubber, Velcro, or similar mounting methods. Protect from moisture.

❗ Keep away from conductive materials to avoid short circuits.

Antenna installation precaution

⃠ Do not cut or bundle the receiver antenna wire.

❗ The antennas must be mounted in such a way to assure they are strain relieved.

❗ Keep the antenna as far away from the motor, ESC and other noise sources as you possibly can.

⃠ Do not touch the antenna to metal, carbon, or other conductive material.

❗ Be sure that the two antennas are placed at 90 degrees to each other.

■ The R7206SB has two antennas. In order to maximize signal reception and promote safe modeling Futaba has adopted a diversity antenna system. This allows the receiver to obtain RF signals on both antennas and fly problem-free.

Antenna installation for carbon fuselage

❗ You must leave 30 mm at the tip of the antenna fully exposed. The exposed antenna should be secured so that it cannot move around or back inside of your aircraft.

Be careful of connector insertion

⃠ Don't connect an S.BUS servo / gyro to S.BUS2 connector.

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.

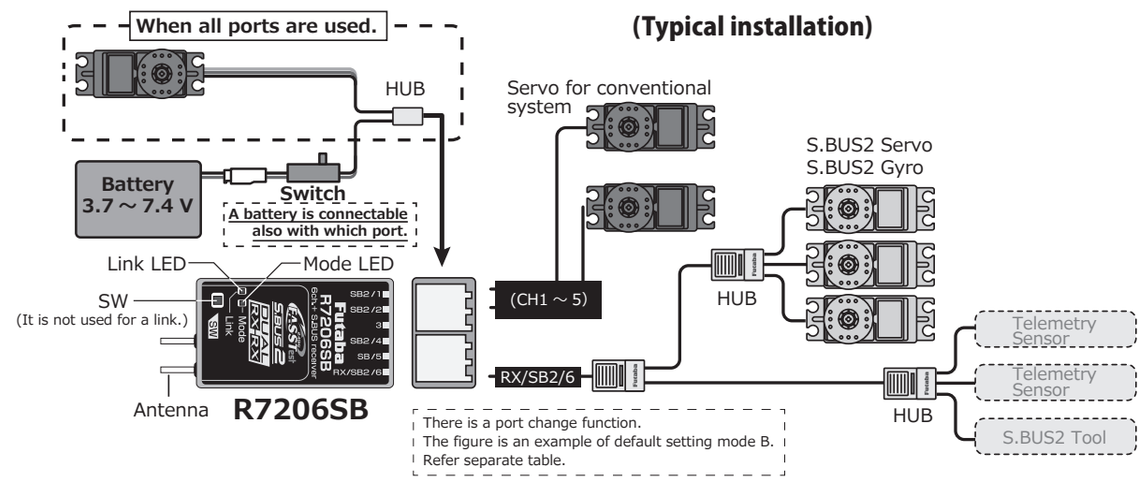
❗ Power on the system in this order: Transmitter first, followed by the receiver.

❗ If the R7206SB receiver was previously linked to another transmitter, make sure that transmitter is not operating while linking the receiver to the new transmitter.

Connector precaution

⃠ Don't connect a connector, as shown in this figure.
■ It will short-circuit, if it connected in this way. A short circuit across the battery terminals may cause abnormal heating, fire and burns.

(Typical installation)



There is a port change function.
The figure is an example of default setting mode B.
Refer separate table.

R7206SB Specifications

FASSTest-2.4 GHz system(18 ch/12 ch mode)
S.BUS2 and **S.BUS** port and 6 Channels for conventional system receiver
- Dual antenna diversity
- Size: 0.89 x 1.5 x 0.48 in. (22.5x38.3x12.2 mm)
- Weight: 0.3 oz. (9.6 g)
- Power requirement: 3.7 V to 7.4 V(Voltage range: 3.5 V to 8.4 V)
- Battery F/S Voltage: FASSTest---It sets up with a transmitter FASST---3.8 V

*Be sure that when using ESCs regulated output the capacity of the ESC must meet your usage condition.
*Never use dry batteries for the power supply of the R7206SB as they may cause difficulties.

Percentage of Waste Paper pulp 80%

LED Indication

Status	LINK LED
No signal reception	Red Solid
Receiving signals	Green Solid
Waiting for link	Start → 2second later → Red Blink (3 second)
Unrecoverable error (EEPROM, etc.)	Red Green Alternate blink

In Dual RX Link Mode

Status	MODE LED
External receiver is receiving error or not connected. S.BUS signal not received	Red Solid
S.BUS signal reception from external receiver (also received by external receiver)	Green Solid

In FASSTest12CH Telemetry OFF Mode

Status	LINK LED
Start	Orange Solid

Link

FASSTest is a bidirectional communication system between the R7206SB 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.

Link to the transmitter

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.

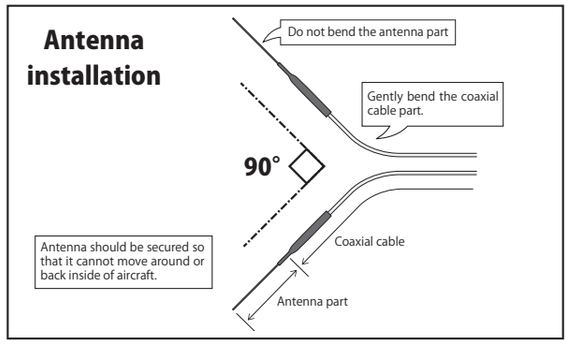
4 The receiver will wait for the linking process to begin for 2 seconds. Following that it will return to the normal operation mode.

5 When the LED of the receiver changes from blinking red to solid green, linking is complete.
(A link waiting state is ended in 3 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 not noticed. To avoid the problem, we strongly recommend that you 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.BUS2

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



Channel Modes

The R7206SB is capable of changing its channel allocations as described in the table below. This is especially important when using the receiver in a dual receiver mode. See your transmitter operation manual for complete details on operating in the dual receiver mode.

R7206SB CH Mode table

Output connector	Channel							
	Mode A	Mode B	Mode C	Mode D	Mode E	Mode F	Mode G	Mode H
SB2 / 1	1	1	1	S.BUS2	7	7	7	13
SB2 / 2	2	2	2	S.BUS2	8	8	8	14
3	3	3	3	3	9	9	9	15
SB2 / 4	4	4	4	S.BUS2	10	10	10	16
SB / 5	5	5	S.BUS	S.BUS	11	11	S.BUS	S.BUS
RX/SB2/6	6	S.BUS2	S.BUS2	S.BUS2	12	S.BUS2	S.BUS2	S.BUS2
LED blink	RED 1	RED 2	RED 3	RED 4	RED 5	GREEN 1	GREEN 2	GREEN 3

Default

1 Turn on the receiver. [Transmitter is always OFF]

2 Press and hold the SW for 5 seconds to 10 seconds.

3 When the LED of the receiver changes from blinking red to blinking orange, SW is released.

4 The LED should now blink red two times in the patterns described in the chart below.

5 Each press of the SW advances the receiver to the next mode.

6 When you reach the mode that you wish to operate in, press and hold the SW for more than 2 seconds. When LED blinks in orange, it is the completion of a mode change, SW is released.

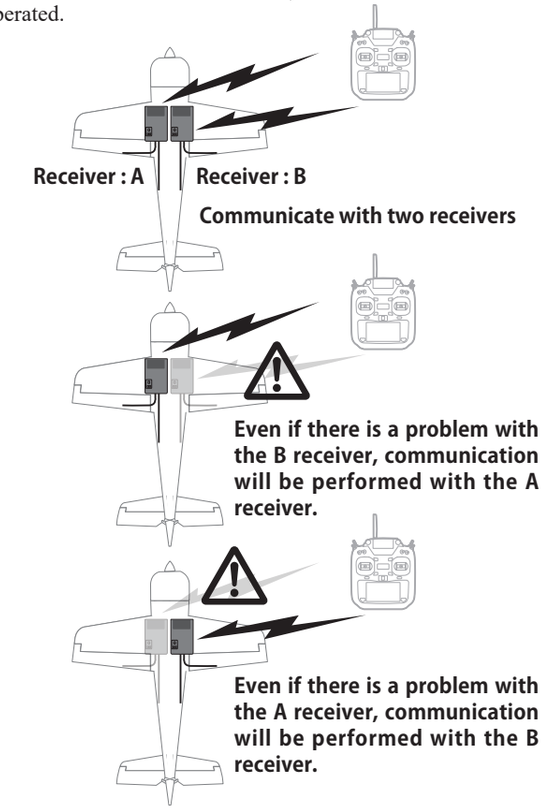
7 Cycle the receiver power off and back on again after changing the Channel mode.

Check

	LINK LED
1 Turn on the receiver. [Transmitter is always OFF]	Red Solid
2 Receiver enters link waiting state	Start → 2second later → Red Blink (3 second)
3 The LED will flash for the current CH output mode.	Current CH mode display

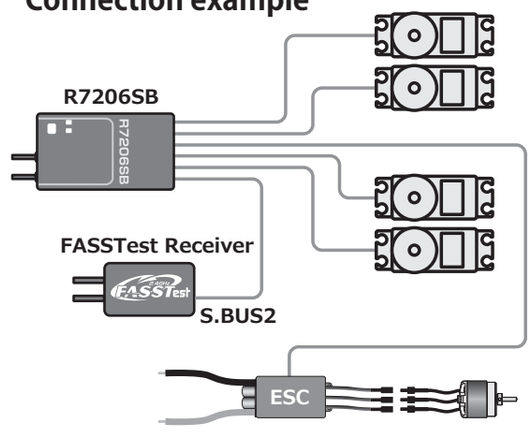
Dual Rx Link System

By installing two receivers in one aircraft, if one receiver becomes unable to communicate, the other receiver can be operated.



In Dual RX link mode, the SB2/RX port is for reception only, so use CH mode B, C, D, F, G, H mode for S.BUS output and S.BUS2 input/output.

Connection example

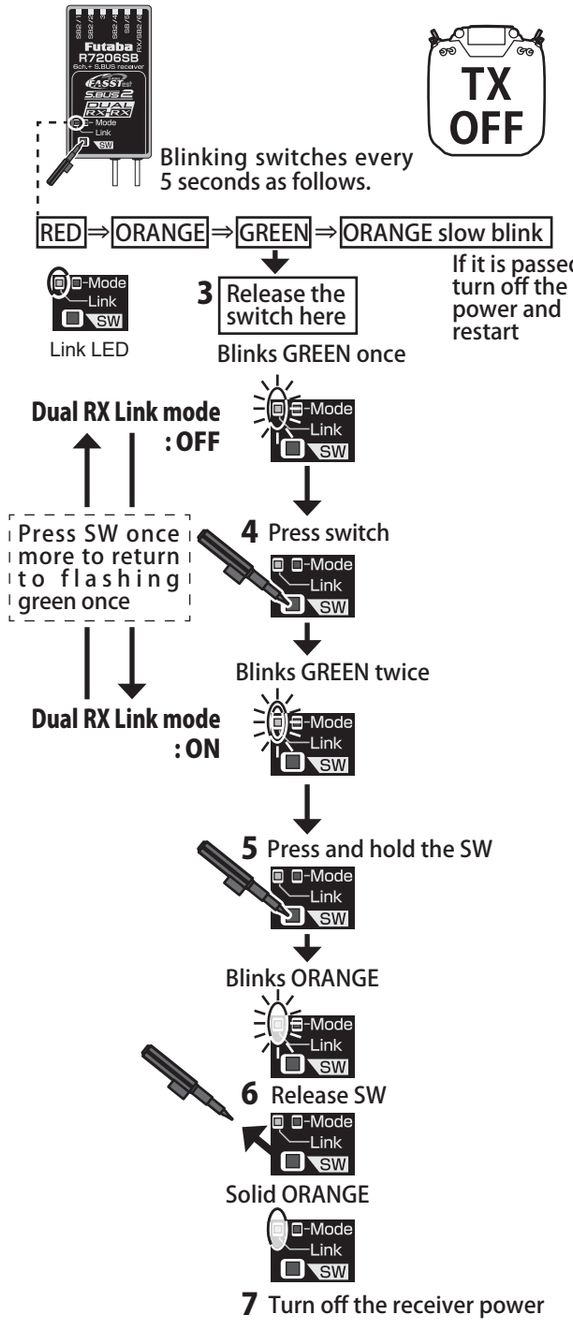


When using ESC

How to change to Dual RX Link mode

1 Turn on the receiver. [Transmitter is always OFF]

2 Press and hold the SW for 5 seconds or more.



Check

After restarting, the MODE LED lights up.

Status	MODE LED
External receiver is receiving error or not connected. S.BUS signal not received	Red Solid
S.BUS signal reception from external receiver (also received by external receiver)	Green Solid