

Appendix B:

Servo Motor Type Futaba R6208SB

Futaba

R6208SB

S.BUS compatible/FASST-2.4GHz (Multi-ch) system
8 channels/high-speed receiver

S.BUS **FASST**

High Voltage System
HV

Thank you for purchasing a Futaba R6208SB S.BUS compatible receiver.

The R6208SB has an S.BUS system output port and a conventional system channel output. It can also be used with conventional system servos, etc. in addition to S.BUS system compatible servos and gyros, etc.

In addition, the operating mode (high-speed mode/normal mode) can be selected.

* However, channel outputs 7 and 8 for conventional system operate in the normal mode even if set to the high-speed mode.

Usage condition on "High Speed mode"

CAUTION

When using the high-speed mode, use a Futaba digital servo (including brushless servo) or S.BUS servo at conventional system use channels 1 to 6. Analog servos cannot be used.

- The use of analog servos may cause servo trouble.
- When using analog servos, select the normal mode, and use channel outputs 7 and 8.

Applicable systems: T8FG 2.4GHz (on 8ch mode), TM8 (on 8ch mode), T10CG 2.4GHz (on 10ch mode), TM10 (on 10ch mode), TM14 (on multi-ch mode)

R6208SB

Compliance Information Statement (for U.S.A.)

This device, trade name Futaba Corporation of America, model number R6208SB, complies with part 15 of the FCC Rules. Operation is subject to the following two 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.

The responsible party of this device compliance is:
Futaba Service Center
3002 N Apollo Drive Suite 1, Champaign, IL 61822 U.S.A.
TEL (217)398-8970 or E-mail: support@futaba-rc.com (Support)

R6208SB Specifications

S.BUS compatible/FASST-2.4GHz (Multi-ch) system/8 channels high-speed receiver

- Dual antenna diversity
- Size: 0.98 x 1.86 x 0.56 in. (24.9 x 47.3 x 14.3 mm)
- Weight: 0.49 oz. (13.8g)
- Power requirement: 3.7V to 7.4V (Voltage range: 3.5 to 8.4V)

* Be sure that when using ESC's regulated output the capacity of the ESC must meet your usage condition.

* The 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.

What is S.BUS?

Different from conventional radio control systems the S.BUS system uses data communication to transmit control signals from a receiver to a servo, gyro, or other S.BUS compatible device. This data includes commands such as "move the channel 3 servo to 15 degrees, move the channel 5 servo to 30 degrees" to multiple devices. The S.BUS devices execute only those commands for their own set channel. For this reason, it can be used by connecting multiple servos to the same signal line.

[Connection by S.BUS system]

* Can also be used together with conventional servos.

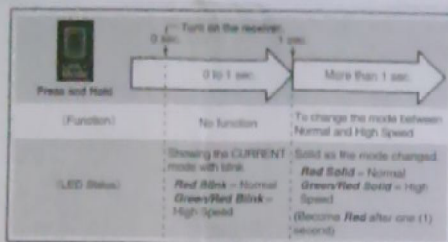
* When using servos with a remote battery pack, use S.BUS Hub with Cable (2-way/remote battery pack use). Please refer to the instruction manual of S.BUS Hub with Cable (2-way/remote battery pack use) for the connection method.

Operation Mode Select

The operation mode is on "Normal mode" from factory shipping. When to change the mode, please follow the steps shown below.

- 1 Turn off the receiver.
- 2 Press and hold the Link/Mode switch and turn on the receiver. Keep the switch hold more than one(1) second. The LED starts flashing with the current status.
- 3 Release the switch.
- 4 Turn off the receiver.

By doing this step, the mode can switch over between two(2) modes.



Please check the operation mode by observing the LED when turning on the receiver. If possible there's no FASST transmitter turned on around you in order to make firmer check.

When turn on the receiver, the LED will be;

- Red when on "Normal mode"
- Green and Red (makes Orange) when on "High Speed mode". (After two(2) seconds, change to Red.)

If there are some FASST transmitter turned on around the receiver, the LED may show the above status for a brief moment then changed to the status indication as shown in the "LED indication" table.

LED Indication

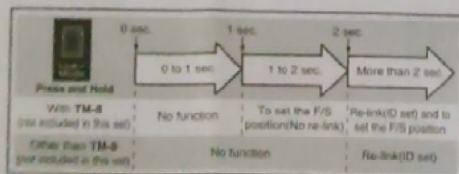
Green	Red	Status
Solid	Solid	Initializing
Off	Solid	No signal reception
Solid	Off	Receiving signals
Blink	Off	Receiving signals but ID is unmatched

Link to the transmitter

- 1 Press and hold the Link/Mode switch more than two(2) seconds.

Re-adjust the F/S position (only for TM-8)

- 1 Press and hold the Link/Mode switch between one(1) and two(2) seconds.



WARNING

Do not perform the linking procedure with motor's main wire is connected or the engine is operating as it may result in serious injury.

While the linking is done, please cycle receiver power and check if the receiver to be linked is really under the control by the transmitter to be linked.

S.BUS Servo Channel Setting Method

S.BUS servo channel setting can be performed at the R6208SB receiver.

- 1 Connect the accessory short-plug to the DATA port of the receiver.



* Connect the short-plug to the DATA port only when an S.BUS servo channel is set. Normally do not connect the plug.

- 2 Connect an S.BUS servo to the conventional system output connector(1 to 8) corresponding to the channel you want to set.

Output connector	Channel setting	
	Mode A	Mode B
1	1	9
2	2	10
3	3	11
4	4	12
5	5	13
6	6	14
7	7	15
8	8	16

* Channel setting mode A (ch1 to 8 setting mode) or channel setting mode B (ch9 to 16 setting mode) can be set.

- 3 Turn on the receiver.

* At once when turning on the receiver, the channel setting is completed in mode A.

(To switch to mode B, press the Link/Mode button until the red and green LED starts to blink simultaneously. The channel setting is completed in mode B.)

* The LED corresponding to the setting mode blinks.

Mode A: Red blinks 3 times
Mode B: Green blinks 3 times

- 4 Turn off the receiver.

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