

Futaba

S.BUS Decoder

SBD-2

INSTRUCTION MANUAL

Applicable receiver: S.BUS/S.BUS2 system receiver only



Before using your new SBD-2, please read this manual thoroughly and use the system properly and safely. After reading this manual, store it in a safe place.

Thank you for purchasing an SBD-2, S.BUS decoder. The SBD-2 is a converter for using conventional servos (other than S.BUS servo) with the S.BUS/S.BUS2 system. The SBD-2 connects to the receiver output of a S.BUS/S.BUS2 system and eight servos can be used.

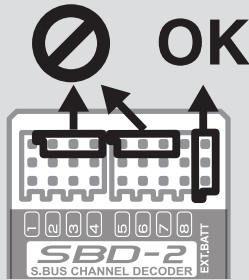
SBD-2 can change the output CH from 9 groups select by rotary switch. SBD-2 can use EXT battery (for servos).

Usage Precautions

WARNING

- ⚠ Always use in the state in which the SBD-2 is firmly attached to the fuselage of the airplane or helicopter.
 - There is the danger of loss of control and crashing if the connector is disconnected by vibration and shock.
- ⚠ When using analog servos, always use in the state in which the receiver is normal mode.
 - There is the danger of erroneous operation or damage on the FASST12ch / High-speed mode.
- ⚠ Do not connect an S.BUS/S.BUS2 connector of the SBD-2 to other than an S.BUS/S.BUS2 connection port.
 - There is the danger of erroneous operation or damage.
- ⚠ Do not use the SBD-2 with anything other than an R/C model.
- ⚠ To ensure that the SBD-2 is functioning as desired, please test accordingly.
 - Do not fly until inspection is complete.
- ⚠ Do not connect shorting pins, when using an Ext battery.
 - There is the danger of explosion and ignition.

- ⚠ Do not connect either a switch or battery in this manner.
 - When a connector is inserted like the left, it short-circuits and there is danger of explosion and ignition.



- ⚠ Ensure that the unit is mounted in an area that will eliminate exposure to fuel, water and vibration.
 - As with any electronic components, proper precautions are urged to prolong the life and increase the performance of the SBD-2.
- ⚠ Allow a slight amount of slack in the SBD-2 cables and fasten them at a suitable location to prevent any damage from vibration during flight.

Futaba Corp. will not be responsible for damage caused by combination with other than Futaba Genuine parts.

Connections and Name of Each Part of the SBD-2

Servo output connectors (1~8)

- Connect the servos.

External battery connector (EXT.BATT)

- Connect the shorting pins supplied when power is shared with the receiver power source.

[SBD-2 Ratings]
 • Dimensions: 29.6mm x 39.3mm x 15.8mm (1.17in. x 1.55in. x 0.62in.) (excluding protruding)
 • Weight: 14.2g (0.5 oz.)
 • Power requirement: 4.8V ~ 7.4V

Monitor LED

Rotary switch

Mini screwdriver

Monitor LED

SBD-2		LED state
OFF		OFF
ON	S.BUS receive error	Blink
	S.BUS reception	ON

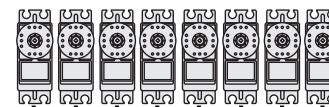
Input connector

- Connects to the S.BUS/S.BUS2 port of the receiver.

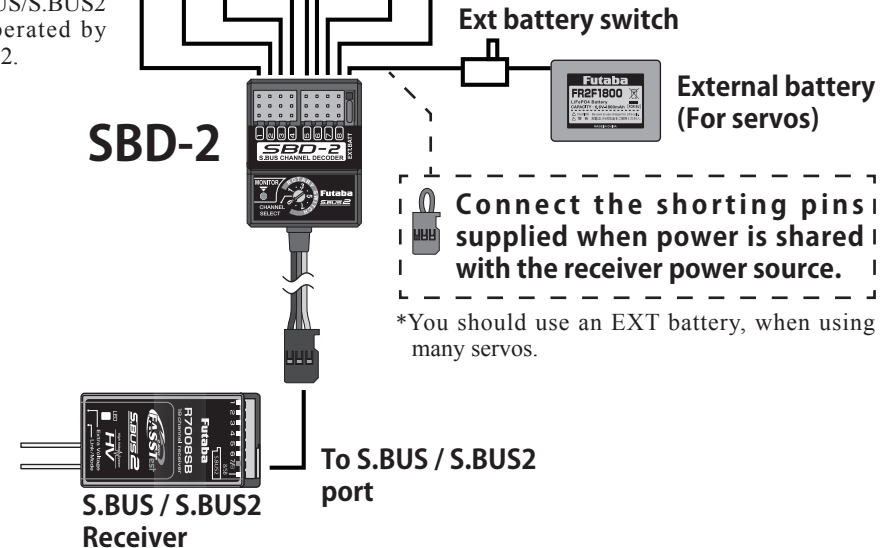
Connection

Conventional servos (other than S.BUS servo)

*If S.BUS/S.BUS2 servo is connected to SBD-2, CH written in S.BUS/S.BUS2 servo will ignore. S.BUS/S.BUS2 servo is operated by CH of SBD-2.



- Eight servos are connectable.
- SBD-2 can change the output CH by rotary switch.



Channel selection



Mini screwdriver used

Rotary switch position

Servo output connectors	1	2	3	4	5	6	7	8	9
	1	CH1	CH9	CH8	CH4	CH9	CH9	CH8	CH4
2	CH2	CH10	CH9	CH5	CH10	CH10	CH9	CH5	CH2
3	CH3	CH11	CH10	CH6	CH11	CH11	CH10	CH6	CH3
4	CH4	CH12	CH11	CH7	CH12	CH12	CH11	CH7	CH4
5	CH5	CH13	CH12	CH8	CH13	CH13	CH12	CH8	CH5
6	CH6	CH14	CH13	CH9	CH14	CH14	CH13	CH9	CH6
7	CH7	CH15	CH14	CH10	CH15	DG1	DG1	DG1	DG1
8	CH8	CH16	CH15	CH11	DG1	DG2	DG2	DG2	DG2



* #0 of rotary switch position does not use it.

* DG1,DG2 : Switch channel output connector

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