

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 an 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 by selecting from 9 groups using a rotary switch. SBD-2 can use EXT battery (for servos).

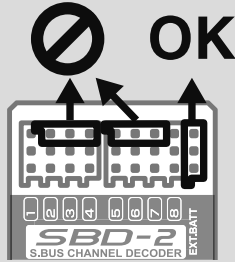
Applicable receiver: S.BUS/S.BUS2 system receiver only

**Usage Precautions**

**WARNING**

- ⚠ Always make sure that the SBD-2 is firmly attached to the fuselage of the aircraft.
  - There is the danger of loss of control and crashing if the connector is disconnected by vibration and shock.
- ⚠ When using analog servos, make sure the receiver is in normal mode.
  - There is the danger of erroneous operation or damage on the FASSTest12ch mode / High-speed mode / R2008SB.
- ⚠ 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 as shown at the left side of the illustration, 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 genuine Futaba 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 protrusions)  
 • Weight: 14.2g (0.5 oz.)  
 • Power requirement: 4.8V ~ 7.4V

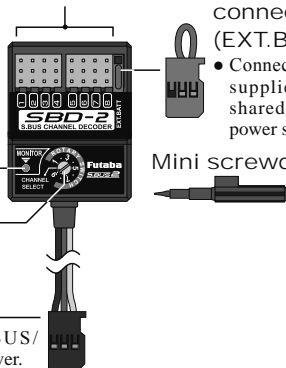
Monitor LED

Mini screwdriver

Rotary switch

Input connector

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



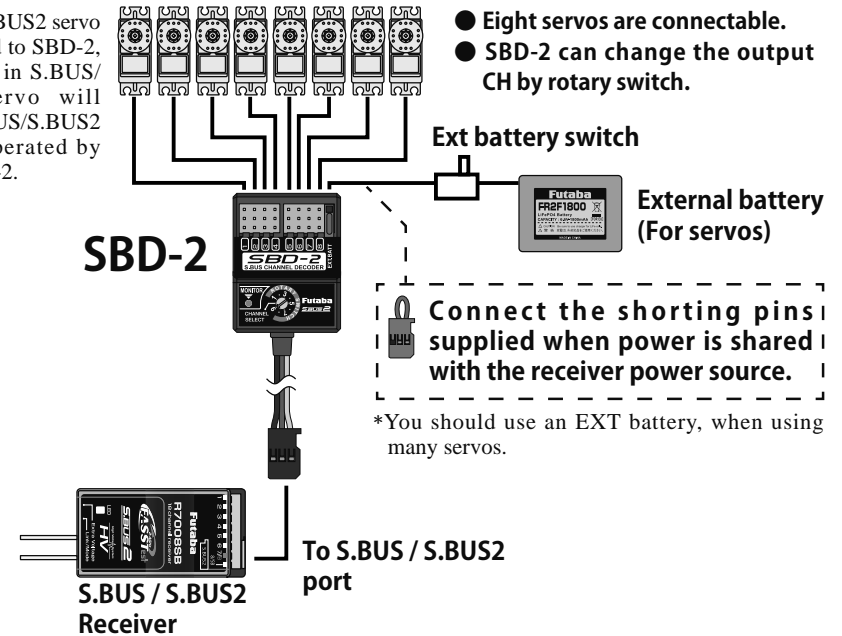
		Monitor LED
SBD-2		LED state
	OFF	OFF
ON	S.BUS receive error	Blink
	S.BUS reception	ON

**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

\* Do not use the rotary switch 0 position.

\* DG1,DG2 : Switch channel output connector

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