1M23N23403

Futaba



INSTRUCTION MANUAL

Before using your SBD-1, 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-1, S.BUS*1 decoder. The **SBD-1** is a converter for using conventional servos (other than **S.BUS** servo*2) with the **S.BUS** system.

- *1 S.BUS: Serial communication system for Futaba R/C system
- *2 Use the **S.BUS** hub as the extension code used for the **S.BUS** servo. Also SBD-1 can be used.

Applicable receiver: S.BUS system receiver only

SBD-1 is not compatible with S.BUS2



Usage Precautions

^WARNNG

Always use in the state in which the SBD-1 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.

/:\CAUTION

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 high speed mode.

Do not connect any device (gyro, battery, etc.) other than servos to the servo connector of the SBD-1. There is the danger of erroneous operation or damage.

Do not connect an S.BUS connector of the SBD-1 to other than an S.BUS connection port. There is the danger of erroneous operation or damage.

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

ach Part and A



Before installing the SBD-1 to the fuselage, set each channel at each servo connector (SX1~3). The equipment by which a channel set is possible

- SBC-1 S.BUS channel changer
- CIU-2/3 USB adapter (SBD-Link software for setting)
- T6K, T10J, T14SG (V4.0-), FX-22 (V4.0-)
- *S.BUS decoder channel setting is impossible with the S.BUS receiver R6108SB.
- *SBD-Link software can be downloaded from the home page of your region's Futaba importer.

- Channel setting by SBC-1
- 1 Connect the S.BUS connector of the SBD-1 to the S.BUS servo connection port of the SBC-1.
- 2 Connect the battery to the battery connection port of the SBC-1.
- * Status display LED blinks slowly. (About 1 sec/time)
- 3 Quickly press and release the SBC-1 setting switch and select the servo connection port at which the channel is to be set.
- *Each time the switch is pressed, the set servo connection port and the number of times the LED blinks change.

SBC-1		SBD-1 servo
Setting switch operation	LED display	connector selec- tion
When power turned on	1 short blink each second	Connector (SX1) selected.
Switch pressed and released quickly	2 short blinks each second	Connector (SX2) selected.
Switch pressed and released quickly	3 short blinks each second	Connector (SX3) selected.

* (Channel confirmation)

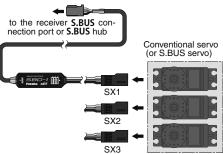
When the operation position of the channel selector switch and the channel set at the connector during the SBD-1 servo connector selection coincide, the LED changes to a steady light.

- 4 Set the **SBC-1** channel selector switch to the channel you want to set.
- 5 Hold down the setting switch (about 1 sec-

- *During channel setting, the LED blinks guickly (about 5 times/sec). When the LED changes to a steady light, channel setting is complete.
- 6 To set the channel of other servo connection ports, quickly press and release the setting switch and repeat steps 4 and 5.

Usage Method

- Connection
- Connect the S.BUS connector of the SBD-1 to the receiver S.BUS connection port or S.BUS hub.
- 2 Connect a conventional servo or an **S.BUS** servo to the servo connector of the SBD-1.
- *When an S.BUS servo was connected, that servo will operate as a conventional servo. However. it operates on the channel set at the servo connector of the SBD-1 instead of the channel set at the servo itself.



Meaning of Special Markings

= Prohibited

Pay special attention to safety where indicated by the following marks:

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⚠DANGER	Procedures which cause death/seriou		gerous conditions and ed out properly.
∆WARNING	cause death or ser	rious injury to the ures where the p	angerous condition or user if not carried out robability of superficial
∆ CAUTION		s a danger of injur	erious injury to the user y, or physical damage,
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[SBD-1 Ratings]

- Dimensions:
- 41.8x12.3x8.4mm (1.65x0.48x0.33in.) (excluding protruding)
- Power requirement: NiCd. NiMH 4 to 5 cells equivalent battery (Futaba)
- Operating temperature range: -10 to +45°C

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= Mandatory

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