

S.BUS Decoder
SBD-3
Instruction Manual

S.BUS/S.BUS2



Thank you for purchasing the SBD-3. Before using your new SBD-3, please read this manual thoroughly and use the SBD-3 properly and safely. After reading this manual, store it in a safe place.

The SBD-3 is a converter for using conventional servo/ESC with the S.BUS system.

Applicable systems
S.BUS/S.BUS2 receiver

Use : S.BUS / S.BUS2 to PWM converter
Length : 238 mm (9.4 in)
Weight : 4.7 g (0.17 oz)
Operating voltage : DC3.7 V to 7.4 V
(Acceptable: DC3.5 V to 8.4 V)

PWM CH3

Channel Setting

If you want to change the output channel from CH3. The equipment by which a channel set is possible.

- [Channel change device]
- CIU-2/3 USB adapter (SBD-Link software for setting)
 - T6K, T10J, T12K, T14SG (V4.0-), FX-22 (V4.0-)

*SBD-Link software can be downloaded from the home page of your region's Futaba importer.

Refer to each manual for how to change. Follow the same procedure as for changing SBD-1. The SBD-1 has three connectors, each of which sets a CH. For SBD-3, change the CH with the Sx1 setting.



ESC connection example

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3CH

Do not supply receiver power from the ESC. When using the receiver power supply type ESC, remove the red (+) cord of the 3ch wiring from the ESC so that the power is not supplied from the ESC.

- Use a dedicated battery to power the receiver / servo.

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Servo connection example

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3CH

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-3 instead of the channel set at the servo itself.

Only one servo can be connected.

Precautions

WARNING

Failure to follow these safety precautions may result in severe injury to yourself and others.

- ❗ In order to prevent any short circuits, please observe the polarity of all connections.
- ❗ Ensure that the unit is connected properly to the receiver.
 - If the connector is disconnected during flight, it becomes inoperable.
- ❗ 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 unit.
- ❗ Allow a slight amount of slack in the unit cables and fasten them at a suitable location to prevent any damage from vibration during flight.
- ❗ Used in a set of Futaba S.BUS / S.BUS2 systems.
- ❗ To ensure that the SBD-3 is functioning as desired, please test accordingly.
 - Do not fly until inspection is complete.

- ❗ When using analog servos, make sure the receiver is in normal mode.
 - There is the danger of erroneous operation or damage on the FASSTest 12ch mode / High-speed mode / S-FHSS.
- ❗ Do not supply receiver power from the ESC. When using the receiver power supply type ESC, remove the red (+) cord of the 3ch wiring from the ESC so that the power is not supplied from the ESC.
 - Use a dedicated battery to power the receiver / servo.
- ❗ Do not connect an S.BUS connector of the SBD-3 to other than an S.BUS connection port.
 - There is the danger of erroneous operation or damage.
- ❗ Do not use the SBD-3 with anything other than an R/C model.

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