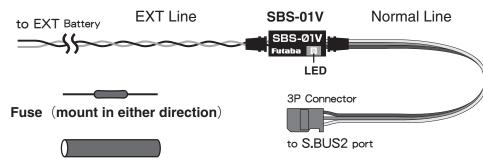


Thank you for purchasing Futaba's SBS-01V Voltage Sensor. This sensor, used in conjunction with a telemetry enabled transmitter/receiver, is used to indicate the voltage of the item to which it is attached. Although the telemetry receiver of Futaba's has a function which measures voltage, if SBS-01V is used, it can measure more battery voltage. To maximize your enjoyment, and to ensure proper sensing, please read through this manual thoroughly. We also encourage you to retain the manual for future reference should the need arise.

The SBS-01V is designed for use with Futaba telemetry systems. Use : Voltage sensor Range: [EXT line Voltage] 0.0V ~ 100.0V [Normal line Voltage] 3.5V ~ 8.4V (It measures to the first decimal place) Length: 870mm Weight: 6.0g Voltage : DC 3.7  $\sim$  7.4V

### Two voltage is measured

SBS-01V measures two voltage. One corresponds to high voltages, such as a drive battery, with an EXT line. However, processing shown in the next is required. Another is a normal line and is measurement of the battery for receivers of a line connected to 3P connector, or the battery for servos.



### 

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

To utilize the SBS-01V altitude sensor, connect it to the S.BUS2 port of the Futaba telemetry enabled receivers. The SBS-01V will not function properly if connected to

- an S.BUS port or other channel ports
- Ensure that the unit is connected properly to the receiver. Failure to do so could result in damage to the sensor.
- 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 SBS-01V.
- To ensure that the SBS-01V is functioning as desired, please test accordingly.
- Do not fly until inspection is complet

O Do not use the SBS-01V with anything other than an R/C model.

- In order to prevent any short circuits, please observe the polarity of all connections Ensure that the unit is connected properly; failure to
- do so could result in damage to the cable, receiver, etc.

• Always mount the cable in accordance with the instructions included in this manual.

Allow a slight amount of slack in the cable. If necessary, fasten this cable at a suitable location to prevent any damage from vibration during flight.

⊘ Turn on the receiver prior to connecting the Extra Voltage Input.

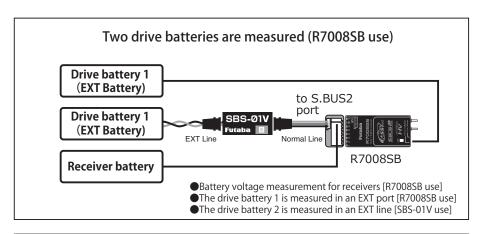
O To prevent any short circuits, please ensure that the cable is routed away from any conducive materials.

O Don't apply voltage higher than 100V to Extra voltage line.

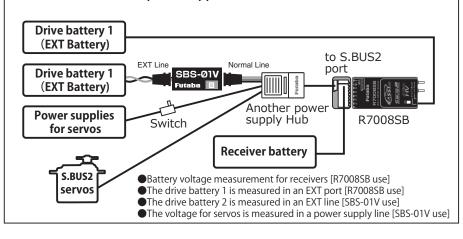
- There is fear of explosion, ignition, and breakage. It is cautious of the burn and fire in wiring
- work enough.

O The work of wiring must not connect a batterv

## The example of wiring



Two drive batteries and power supplies for servos are measured (R7008SB use)



# **Heat Shrink Tube**

#### **LED** Indication

Green	Normal operation
Red	No signal reception
Green/Red	When setting up the slot
Green/Red Alternate blink	Unrecoverable error

### **Slot Number Setup**

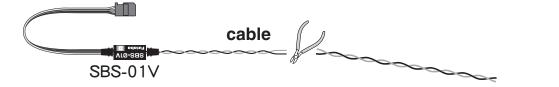
SBS-01V uses three continuous slots. Please note that the proper default start slot for this accessory is number 6. When setup-changing or adding, it is the following numbers that are made to a start slot.

1,2,3,4,5,6,8,9,10,11,12,13,14,16,17, 18,19,20,21,22,24,25,26,27,28,29,30 Information on how to change the slot assignment is included in the transmitter's manual.

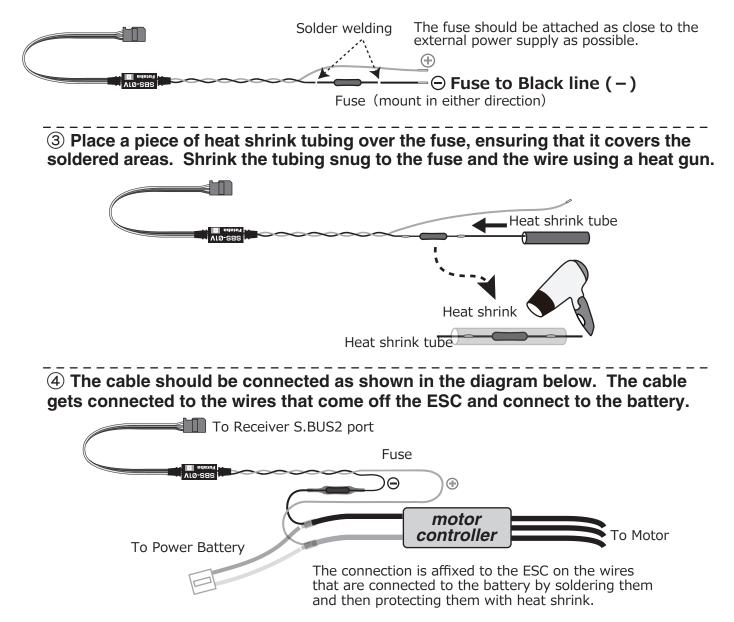
### **Battery connection**

What is measured is total voltage when the battery which you want to measure has two or more cells. One cell of a battery with many cells cannot be measured. Don't carry out connection wiring at one cell. If it connects with one cell, there is fear of ignition.

① Measure the cable and then cut it to the desired length.



② Cut approximately 30mm of the positive (-, black) line from the cable. Solder the fuse inline on the positive wire and then reattach the section of wire that was previously removed. The fuse should be attached as close to the external power supply as possible.



(5) The manual for the Telemetry system should be referred to after the setup is complete; checking to make sure it functions as desired and that it provides the correct voltage on the display.