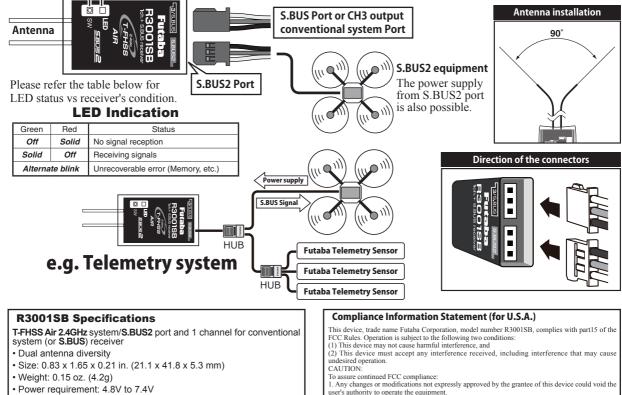
stem <u>T-FHSS</u> <u>S.BUS</u> <u>S.BUS</u> <u>High Voltage System</u> CH3 Port) ht Receiver
4GHz compatible receiver. The R3001SB receiver features bi- transmitter using the S.BUS2 port. Using the S.BUS2 port an use both standard S.BUS output port or PWM (ch3) output port.
a T-FHSS Air 2.4GHz system
Antenna installation precaution O Do not cut or bundle the receiver antenna wire. D Do not bend the coaxial cable. It causes damage. The antenna should not be pulled. Keep the antenna as far away from the motor, ESC
and other noise sources as you possibly can. O Do not touch the antenna to metal, carbon, or other conductive material.
 Be sure that the two antennas are placed at 90 degrees to each other. The R3001SB has two antennas. In order to maximize signal reception and promote safe modeling Futaba has adopted a diversity antenna system. This allows the receiver to obtain RF signals on both
Antenna installation for carbon fuse ART WARNING The antenna portion of 30mm tip must be fully ex-

posed.

• Please make sure that the exposed portion won't slide back in the fuse due to wind pressure or other force during the flight session.



The receiver power

connected to any port.

supply can be

R3001SB

LED

Mode switch

- Battery F/S Voltage: It sets up with a transmitter
- * Be sure that when using ESC's regulated output the current capacity of the ESC meets your usage condition. *S.BUSS.BUS2 port: R3001SB can be used with up to 18 channels. However, it differs according to the transmitter. An unused channel is a neutral signal. The F/S setting channel at F/S is F/S position. Another, it is Hold signal.

Any changes of modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
 This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
 The responsible party of this device compliance is:

Futaba Service Center

Tutaba Service Center 3002 N Apollo Drive Suite 1, Champaign, IL 61822 U.S.A. TEL (217)398-8970 or E-mail: support@futaba-rc.com (Support)

Link to the transmitter

Easy Link ID allows T-FHSS Air receivers to link to compatible transmitter without pressing the link button on the receiver.

- **1** Bring the transmitter and the receiver close to each other, within 20 inches (half meter).
- **2** Turn on the transmitter. Place the transmitter into the receiver linking mode.
- **3** Turn on the receiver.
- **4** The receiver will wait for the linking process to begin for 3 seconds. Following that it will return to the normal operation mode.
- **5** When the LED of the receiver changes from blinking red to solid green, linking is completed.

(A link waiting state is ended in 3 second.)

* Refer to the transmitters operation manual for complete details on how to place the transmitter into the linking mode.

- * If there are many T-FHSS Air systems turned on in close proximity, your receiver might have difficulty establishing a link to your transmitter. This is a rare occurrence. However, should another T-FHSS Air transmitter/receiver be linking at the same time, your receiver could link to the wrong transmitter. This is very dangerous if you do not notice this situation. In order to avoid the problem, we strongly recommend you to double check whether your receiver is really under control by your transmitter.
- * If the System Type of the transmitter is changed, the receiver will need to be re-linked to the transmitter.
- * Link is required when a new model is made from a model selection.

⊘ Do not perform the linking procedure while the motor's main wire connected or the engine is operating as it may result in serious injury.

• When the linking is complete, please cycle the receiver power and ensure the receiver is properly linked to the transmitter.

() Please power up your system in this order. Transmitter first, followed by the receiver.

() If the R3001SB receiver was previously linked to another transmitter, make sure that transmitter is not operating while linking the receiver to the new transmitter.

Channel Modes (S.BUS ⇔ CH3)

The R3001SB is capable of changing its channel allocations as described in the table below.

- 1 Turn on the receiver. (At this moment, the transmitter should be off.) Then, **LED** blinks RED in about 3 seconds. Next, wait until it becomes solid RED.
- **2** Press and hold the **Mode switch** more than 5 seconds.
- **3** Release the button when the **LED** blinks RED and GREEN simultaneously.
- 4 The receiver is now in the "Operation CH Set" mode. At this moment, the LED indicates current set status through flashing a pattern that corresponds to the CH mode.

*Cannot exit this CH setting mode before the operation mode is fixed.

**See the next table that shows correspondence between "CH mode" and way of flashing LED.

***Default CH mode is "Mode B".

5 By pressing the **Mode switch**, the operation CH is switched sequentially as " Mode B" "Mode A" "Mode B"....

What is S.BUS?

Different from conventional radio control systems, the **S.BUS** system uses data communication to transmit control signals from a receiver to a servo, gyro, or other **S.BUS** compatible devices. This data includes commands such as "move the channel 3 servo to 15 degrees, move the channel 5 servo to 30 degrees" to multiple devices. The **S.BUS** devices execute only those commands for their own set channel. For this reason, it can be used by connecting multiple servos to the same signal line.

- 6 The operation mode will be set by pressing the Mode switch more than 2 seconds at the desired CH mode.
- **7** Release the button when the **LED** blinks RED and GREEN simultaneously. Then, the operation CH is fixed.
- 8 After confirming the operation CH mode is changed, turn off and back on the receiver power.

*The "Operation CH Set" mode cannot be changed during the receiver communicates to the transmitter.

R3001SB CH Mode table		
	Mode A	Mode B
3/S.BUS	3CH	S.BUS
Red LED blink	1 time	2 time
Default CH mode		

Default CH mode

▲ WARNING

 \blacksquare Turn on the power on transmitter \rightarrow receiver in order. In addition, always check the operation of all the functions before flight.

\bigotimes Do not insert or remove the S.BUS connector while the receiver power is ON.

Since the S.BUS servo switches the operation mode automatically according to the type of signal (S.BUS signal/PWM signal) from the receiver, if the connected is inserted or removed while the power is ON, an S.BUS connected servo will be erroneously recognized and may stop.

FUTABA CORPORATION

1080 Yabutsuka, Chosei-mura, Chosei-gun, Chiba-ken, 299-4395, Japan Phone: +81 475 32 6982, Facsimile: +81 475 32 6983