Futaba R334SBS-E

T-FHSS SR/T-FHSS-2.4GHz System
Diversity short antenna, S.BUS2
4-Channel Receiver for EP Car Models

2.4GHz T-FHSS SR | S.BUS2 DIVERSITY | High Voltage System HV

INSTRUCTION MANUAL

Thank you for purchasing the **R334SBS-E** receiver. The **R334SBS-E** is designed for use with the Futaba **T-FHSS SR/ T-FHSS** system transmitter. The **R334SBS-E** receiver has adopted the newly developed high-speed response system "**T-FHSS SR**".

Note: The R334SBS-E receiver is designed to be used only for EP Car models.

Note: The R334SBS-E is compatible with the T-FHSS SR/T-FHSS system transmitters.
The receiver type setting of the transmitter is set in T-FHSS SR/T-FHSS.
***Futaba T-FHSS system does not work with current Futaba S-FHSS/FHSS/FASSTest/FASST/T-FHSS Air system.**

In case of T-FHSS SR

• SR servo
The servo corresponding to the SR mode is needed.
The servo type setting of the transmitter is set in SR mode.

• SR mode ON/OFF
ON/OFF of SR mode can be established according to each channel by a transmitter setting. An OFF channel can use a normal servo/ESC.

• Telemetry function
Telemetry function cannot be used for the T-FHSS SR. Neither is S.BUS2 function.

• Mode Change
To change the system mode, select the system mode (T-FHSS or T-FHSS SR) of the transmitter first.
Then, making a link between the transmitter and the receiver to build up the radio linkage.

T-FHSS ⟷ *Re-Link* ⟷ *T-FHSS SR*

In case of T-FHSS

• Telemetry system
With the **telemetry system**, the running status can be displayed at the transmitter. By connecting **S.BUS sensors** that are separately sold into the **S.BUS2** port of the receiver (R334SBS-E),
the transmitter will be possible to show the telemetry data on its display.

• Normal mode/High Speed mode
The "Normal mode" accepts any type of servos or the peripheral. The "High Speed mode" only accepts the digital servos, including BLS series, and most peripheral equipments such as the brushless ESCs. Please pay special attention to the information contained within this manual and transmitter's manual in order to have a pleasant running experience.
Operating Precautions (T-FHSS):
Once the R334SBS-E detects the T-FHSS normal mode or T-FHSS high speed mode, the detected mode is locked as long as the power is ON. When need to change the mode, please cycle power.

Usage condition on "T-FHSS SR mode"

⚠CAUTION

- When using the T-FHSS SR mode, use an SR mode servo. Nomal servos cannot be used.
- The use of nomal servos may cause servo trouble.

Usage condition on "T-FHSS High Speed mode"

⚠CAUTION

- When using the high-speed mode, use a Futaba digital servo (including brushless servo). Analog servos cannot be used.
- The use of analog servos may cause servo trouble.

⚠WARNING

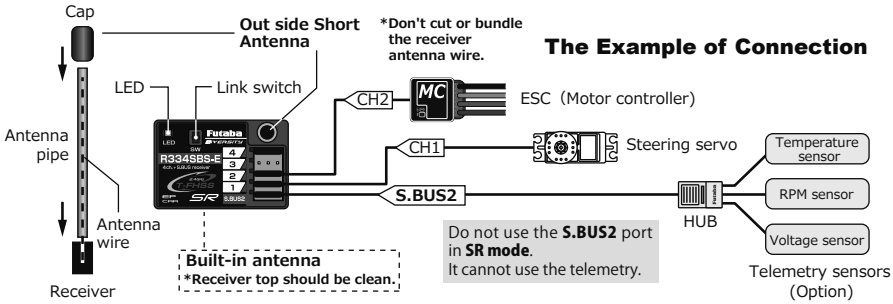
- After the linking is done, please cycle receiver power and check if the receiver to be linked is really under the control of the transmitter to be linked.
- Do not perform the linking procedure with motor's main wire connected operating as it may result in serious injury.

⚠WARNING

- **NEVER** use the **R334SBS-E** in GP(Engine) cars.
- **NEVER** remove the case to avoid the unexpected malfunction. When removing a case from the double-stick tape, maintain the bottom case.
- **NEVER** use dry batteries for the power supply of the **R334SBS-E** as this may cause difficulties with the receiver's operation.
- Wrap the receiver with something soft, such as foam rubber, to avoid vibration. Do not splash water over the receiver.
- Since the receiver generates a certain amount of heat, install in a place with good ventilation.
- Do not put any conductive equipment/sticker on the antenna part. (Receiver top)
- Otherwise, the operating range may become shorter.

LED Indication

No signal reception	LED: Red
Receiving signals	LED: Green
Unrecoverable failure (EEPROM,etc.)	LED: Red and Green turn on alternately



Link Procedure

Each transmitter has an individually assigned, unique ID code. In order to start operation, the receiver must be linked with the ID code of the transmitter with which it is being paired. Once the link is made, the ID code is stored in the receiver and no further linking is necessary unless the receiver is to be used with another transmitter.

1 Place the transmitter and the receiver within half a meter of each other.

2 Place the transmitter into the linking mode and turn on the receiver.

3 During countdown, push the receiver tact switch for approximately 2 seconds.
The LED will begin to blink red. After the receiver LED switches from blinking red to green → green (red) steady light, If the transmitter and receiver are linked normally, set the power switch to the OFF position and then return it to the PWR ON position. If the receiver LED lights green, linking was successful. (T4PLS,T4GRS : set the power switch to the OFF position and then return it to the PWR ON position.) Actually check servo operation.

* Please refer to the table below for LED status and receiver condition.
* Refer to user manual of the transmitter, to change your transmitter in "Link" mode.
* If there are many T-FHSS 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 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 double check whether your receiver is really under control by your transmitter.

Declaration of Conformity (for EU)
Hereby, Futaba Corporation declares that the radio equipment type is R334SBS-E in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
http://www.rc.futaba.co.jp/english/dl/declarations.html

R334SBS-E Specifications:

(**T-FHSS SR/T-FHSS** system, **S.BUS2**, 4-channel receiver)
- Receiving on 2.4GHz band • RF power output:10mW EIRP
- System: **T-FHSS SR/T-FHSS** system • Power requirement Operating voltage: 3.7V-7.4V
- F/S and Battery F/S function:It is set according to the transmitter used.
- Battery F/S voltage: Set it with the transmitter arbitrarily.
- Size: 1.33x0.88x0.44" (33.9x22.3x11.3mm) •Weight: 0.25oz. (7.2g)

Compliance Information Statement (for U.S.A.)

This device, trade name Futaba Corporation, model number R334SBS-E, complies with part15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
CAUTION: To assure continued FCC compliance
1. Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
2. 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
3002 N Apollo Drive Suite 1, Champaign, IL 61822 U.S.A.
TEL (217)398-8970 or E-mail: support@futaba-rc.com (Support)

Compliance Information Statement (for Canada)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This equipment complies with IC 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.
French: Cet appareil radio est conforme au CNR-210 d'Industrie Canada. L'utilisation de ce dispositifest autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même sice brouillage est susceptible de compromettre le fonctionnement du dispositif. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

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