RX-493i SSL SIGNAL INDICATOR — SSL TELEMETRY — 2.4GHz

Thank you for your purchasing SANWA 2.4GHz Receiver "RX-493i." This product manual explains correct uses, safe uses, and product notifications. Please read the manual and follow steps and cautions before using. If you read the manual, please keep it whenever you need to read.
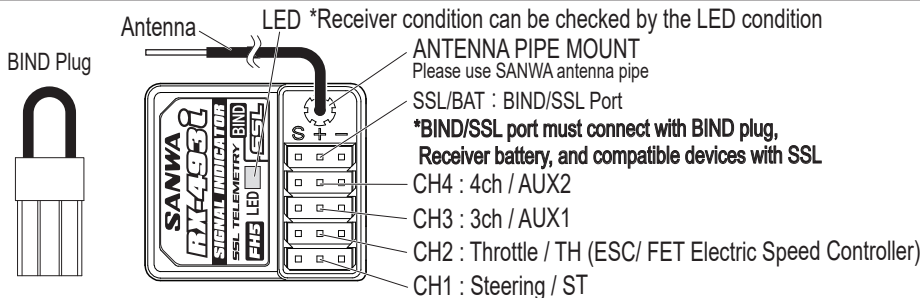
⚠ PRECAUTIONS AND WARNINGS

●RX-493i(2.4 GHz Spread spectrum transmission system receiver) is for compatible FH5/FH5U transmitter. Other AM/FM/2.4GHz transmitter cannot use.
●Please surely bind with a transmitter before using. Default is not bind with receiver.
●To combine with devices compatible with SSL can be changed setting by transmitter CODE AUX function.
●Analog servos is not compatible with SXR, SUR, SSR, SHR mode. You must use analog servos and ESC by NOR mode. If using analog servos by SXR,SUR, SSR, SHR mode, the analog servos will be broken. (Analog servos: Hyper ERG series, RS-995, SZ-165T, SPEC series) BL-RACER/BL-FORCE/BL-sport, F3300, F3000, F2200, SBL-01/02/03CR cannot work by SXR,SUR, SSR, and SHR response mode.
●2.4GHz frequency band is not only for Radio Control. This frequency band is same as ISM (industrial, scientific, and medical device) use. There are some possible of interfering by the other devices as Microwave, wireless LAN, digital cordless phone, audio device, gaming device, and Bluetooth device, and VICS. Also, amateur radio uses same frequency band. Please take care of interfering form other devices. In case of interfering to the radio station, please stop to use and avoid the interfere.
●Please check safe use and limit to use devices are possible to be interfered in RC circuit. Also, please follow instructions by the facility manager.
●In case of running behind the building and steel tower, transmission function would be decline or out of control. Please always operate in visible situation.
●If the 2.4GHz frequency band is saturated (too many transmitters on at once), as a safety precaution, it may not pair when turned on. Once the frequencies have been cleared, or the saturation level has dropped, your transmitter and receiver should pair when turned on without any problems.

2.4GHz NAME OF PARTS, LED CONDITION INDICATOR, AND ANTENNA CONDITION

BIND Plug

Antenna
LED *Receiver condition can be checked by the LED condition
ANTENNA PIPE MOUNT
Please use SANWA antenna pipe
SSL/BAT : BIND/SSL Port
*BIND/SSL port must connect with BIND plug, Receiver battery, and compatible devices with SSL
CH4 : 4ch / AUX2
CH3 : 3ch / AUX1
CH2 : Throttle / TH (ESC/ FET Electric Speed Controller)
CH1 : Steering / ST

LED condition indicator

LED condition indicator	
Receiving RF Signal	Blue (*)
No connection	None
Binding Operation	Blue Flash Slow Blue Flash Fast
Battery Fail Safe Mode	Flashing Blue and Red
No connection after Battery Fail Safe	Flashing Red

●Depending on the place receiver and antenna, reception distance may be different.
●Do not antenna tip is outside antenna pipe because of antenna protection. Please put antenna in the pipe as right picture.
●MUST not hold antenna due to avoiding breaking of wire. Do not pull off antenna. It will be caused failure inside receiver.
●Please place antenna as high as possible in your model.
●Do not cut off and bundle antenna due to avoiding to decline receiver sensitivity.
●Stand antenna vertically. Please place receiver apart from motor, metal parts, carbon parts, and ESC (FET Speed Controller) include leads.

Antenna pipe
Signal receive
Antenna cable
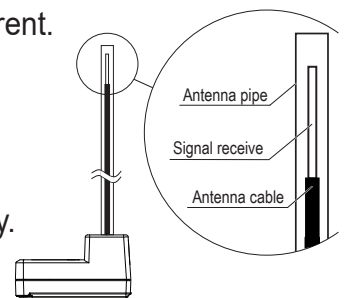
2.4GHz SSL SYSTEM

●To combine with devices compatible with SSL can be changed setting by transmitter CODE AUX function.
●In case of using CODE AUX, please change AUX TYPE is [NOR] to [CODE5 or CODE10] in System. To choose CODE5 or CODE10 depends on device which is compatible with CODE5 or CODE10.
●About CODE AUX, please refer SSL system explanation on our HP. (www.sanwa-denshi.com)

2.4GHz INDICATOR FUNCTION

●RX-493i has indicator function. Indicator function can be used for checking receiver placement and malfunction. The indicator function can be set with compatible transmitter. The transmitter can check receiver signal condition from receiver. About setting of the indicator function, please refer the compatible transmitter operation manual. Also, please check our website (www.sanwa-denshi.com) for checking transmitter is compatible with indicator function or incompatible.

⚠ WARNING	■ Default is not bind with transmitter. Please bind with a transmitter before using. ■ MUST use the receiver binded with a transmitter.

● About BIND : each 2.4GHz transmitter has ID Number. The bind is stored ID Number in receiver.
 If receiver bind with transmitter, receiver will be worked by only the transmitter.

1. Please set [RF mode] is [FH5/FH5U] in Transmitter System (Compatible with FH5/FH5U)
2. Turn on the transmitter, and set for other devices as response mode. Then, enter [BIND] to be bind mode.
3. Connect BIND plug in RX-493i BIND/SSL port. Then, turn on receiver.
   *When you bind transmitter with the receiver, please connect battery in empty port. (In case of EP car, speed controller connect in CH2 port)
4. After RX-493i LED will be changed fast flashing blue from slow flashing blue, please take off BIND plug and restart RX-493i (Turn off receiver, then turn on).
   In case of binding with second transmitter, the blue light will be blinking for each 0.2 seconds.
5. Please finish BIND mode on transmitter to use enter/back operation by touch pad. In case of binding with transmitter, LED on the receiver turn on blue.
   Please operate device as servo to check BIND is completed.
   * In case of turning off LED in the process or did not complete BIND setting, please reset binding form 2. in bind process.
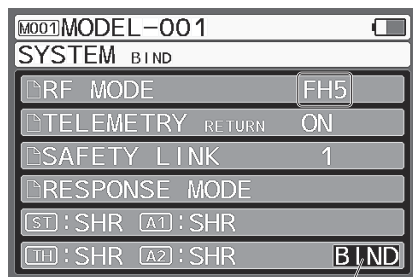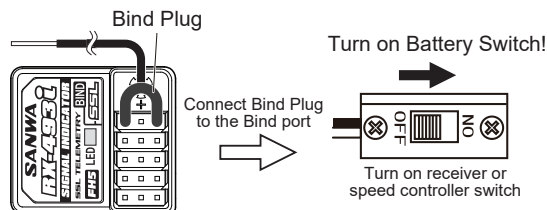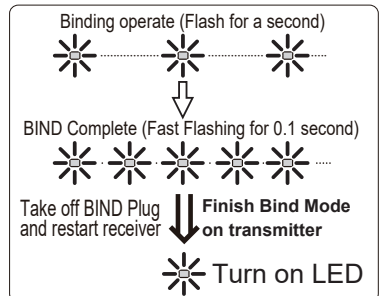

● About RX-493i

  RX-493i can store 2 transmitter ID Number. It is able to combine using individual transmitter which is different setting in endurance race .

  If you bind with 2 different transmitter, the receiver store the different transmitter and can operate by transmitters without re-bind.

  *CANNOT operate by the 2 different transmitter at the same time. 2 ID store system is for only compatible transmitters.

- Throttle neutral position or operation quantities might be different each transmitter. Please adjust each transmitter setting to fit chassis linkage.
- MUST set fail-safe setting on each transmitter.
- Please set same RF mode and response mode as 1st transmitter when you bind 2nd transmitter. If it was different mode, cannot bind with 2 transmitters.
  *If 2nd transmitter was different RF mode and response mode from 1st transmitter, 1st transmitter ID No. is deleted and only write 2nd transmitter.
  *If you bound 3rd transmitter, 1st transmitter ID No. will be deleted.

⚠ PRECAUTION FOR SAFE USE

● Please mount the antenna of receiver as high as possible in your model.
● Do NOT cut off the antenna and bundle the antenna.
● Stand antenna vertically. Please place receiver apart from motor, metal parts, carbon parts, and ESC (FET Speed Controller) include leads.
● Please check surely connection devices as servos and switch with the receiver. In case of loosing connection during running, it is possible to be out of control.
● The receiver is weak in extreme vibration, shock, and water. Please take care of vibration, shock, and water.
● Please mount the receiver apart from carbon and metal chassis.
● Metal to metal contact in your model will generate to noise. It will interfere the receiver ability and is possible to be out of control.
● Please take noise killer condenser to brushless motor for RC car. If not taking noise killer condenser to brushless motor for RC car, noise will be generated. It is possible to be out of control.
● Please use transmitter, servos, ESC (FET speed controller) made by SANWA.
*In case of combine to use with the devices except SANWA devices, we could not take responsibility for any failures.

2.4GHz ▪▪▪▪ WARRANTY AND SERVICE INFORMATION

Your RX-493i is warranted against manufacture defects in materials and workmanship.

This warranty does not cover suitability for specific application, components worn by use or improper voltage, tampering, modification, misuse, abuse, improper wiring, reverse polarity, moisture damage or acts of Gods.

For warranty and service information, please contact the SANWA distributors in your region.

For a list of distributors in your region, please visit www.sanwa-denshi.com/rc/distributors.html.