KR-407S 2.4GHz SS Receiver

Instruction Manual

At this time we would like to thank you for purchasing the KR-407S. This product has adopted the current 2.4GHz spread spectrum system allowing the use of multiple channels without the need to search for an available open channel like the bands of a crystal system. This product corresponds to the transmitters that are sold by our company, listed below. Please read this instruction manual before using this product. Also please read the instruction manual of the transmitter being used.

Transmitter Response RF Module EX-5UR / RF-901S

For your safety, please note the handling and use of this product.

WARNING

- This product is manufactured for use with radio controls. Discontinue use for all other purposes.
- Do not use in the event of a thunderstorm. There is danger of a lightning bolt striking the antenna of the transmitter.
- Do not use if there are rain puddles. Loss of control may occur due to water damage.
- Discontinue use when consuming alcohol or medication that may hinder concentration or judgment. Unexpected accidents are caused with a judgment mistake.
- Please keep away from small children.
- Poisons by accidental ingestion and there is a risk of burn injuries.
- Only use the batteries specified in the instruction manual of the transmitter.
- To turn the system on, start by turning on the transmitter then the receiver. To turn off the system, turn off the receiver first, then the transmitter in this sequence.
- Please be sure to use only our products for the transmitter and servos.*
- Concerning the damage and the like, which is generated when combining products that are not our company's genuine products we do not owe responsibility.
- Altering the transmission module is inhibited by law and is subjected to penal code violations. Resolution remodeling of all products may result in the cause of a short and other accidents. In addition, if this product is altered we will refuse repair service.
- Please do not use this product inside an airplane, hospital, near any automatic control equipment, medical electrical machinery and apparatus such as fire alarms. In addition with respect to the law, if this product effects other radio equipment and electronic equipment, use must be discontinued at once.

CAUTION

- This product is manufactured for surface use radio controls. Discontinue use for all other purposes.
- Do not use in the event of a thunderstorm. There is danger of a lightning bolt striking the antenna of the transmitter.
- Do not use if there are rain puddles. Loss of control may occur due to water damage.
- Discontinue use when consuming alcohol or medication that may hinder concentration or judgment. Unexpected accidents are caused with a judgment mistake.
- Some parts are sharp and angular, please be careful.Please keep away from small children.
- Poisoning by accidental ingestion and there is a risk of burn injuries.
- Only use the batteries specified in the instruction manual of the transmitter.
- To turn the system on, start by turning on the transmitter then the receiver. To turn off the system, turn off the receiver first, then the transmitter in this sequence.
- Please be sure to use only our products for the transmitter and servos.*
- Concerning the damage and the like, which is generated when combining products that are not our company's genuine products we do not owe responsibility.
- Altering the transmission module is inhibited by law and is subjected to penal code violations. Resolution remodeling of all products may result in the cause of a short and other accidents. In addition, if this product is altered we will refuse repair service.
- Please do not use this product inside an airplane, hospital, near any automatic control equipment, medical electrical machinery and apparatus such as fire alarms. In addition with respect to the law, if this product effects other radio equipment and electronic equipment, use must be discontinued at once.

Names of Parts

- **Antenna**: A component used to transmit and receive wireless signals. It is essential for transmitting and receiving data wirelessly.
- **Antenna Tube**: The tube that houses the antenna, providing structural support and protection for the antenna components.
- **Antenna Setup Button**: A small button used to activate or deactivate the antenna feature, typically found on electronic devices requiring antenna assistance.
- **LED Light**: A visible indicator that signifies the operational status or success of certain tasks, such as pairing or activating the antenna setting.

Installing the Antenna

- Please use plastic mounts and a plastic antenna tube.
- Please do not use a metal antenna mount because it will create noise and problems.
- To protect the main antenna, insert the antenna into the antenna tube.
- Please do not disconnect or cut the antenna. This will cause loss of signal.

Placement with attention to electric cars

- Please keep distance to the receiver site, due to noise sources of the battery, motor, ESC, etc. if possible. Also keep away power condensers and shotki nodes that generate noise from the receiver antenna if possible.

Pairing

When using the receiver for the first time, the receiver must store the ID number of the module and ‘pairing’ of the receiver and module is necessary. Pairing must be performed when the module or transmitter that is used is changed. When multiple receivers are used, each receiver must go through the pairing process at least once.

- **For RF-901S**
  1. Hold the Forward and Back keys down and turn on the power switch.
  2. PAIR will be displayed and flash on the LCD screen and the buzzed will start.
  3. After about five seconds the buzzer and flash of the ‘PAIR’ on the LCD screen will end.

- **For EX-5UR**
  1. Please set the fail-safe.
  2. Turn on the transmitter and the receiver and verify operation.
  3. On the transmitter, hold the throttle to the position you would like it to be set to. While holding the position, press the setup button on the receiver.

Note in regard to use and carrier sense

- When turning on the transmitter, the RF-901S module will scan for a free frequency while the receiver scans for its paired module. This is called ‘carrier sense’.

Fail-safe function

Fail-safe is when the receiver loses the radio signal of the transmitter, and the function keeps channel 2 (throttle) in an optional position. The configuration is usually full brake or neutral.

Configuration instructions

- Turn on the transmitter and the receiver and verify operation.
- Hold the setup button on the receiver until the LED light goes off and release the button.

If you change the position of the fail-safe operation, please set again. We recommend to set it again even if you modify the car engine brake linkage.

KR-407S compatibility with conventional models

- When changing your conventional receiver to the KR-407S receiver, please note the following:
  - Check the operating range of each channel and re-adjust the travel, steering, throttle high point and brake points on your transmitter. For electric cars, ESC (speed controller) should also be reset to your transmitter.

About Repairs

- If you request a repair, please report the fault in as much detail as possible. This will aid in knowing the problem and parts to be used and repair time.
- When you believe you need service.
  - Please refer to your manual once more and please inspect.
  - If you do not understand something, please inquire our service department.
  - We are not responsible to the breakdown caused by the use of parts that are not our company’s genuine products we do not owe responsibility.
  - Please do not cut the antenna wire. You will receive less range. Please place the antenna away from receiver battery. ESC, motor and silicon wires and any other noise source. The antenna wire for the receiver requires special attention.

CAUTION

- If you use it without checking these setting, the servo may become damaged or may cause abnormal behavior.

Technical Specifications

- KR-407S Receiver
  - High Speed Response / fail-safe function
  - Model Number: KR-407S
  - Power Source: 4.8V ~ 7.4V
  - Size: 28x18.3x18.5 / Weight: 7.5g

KONDO KAGAKU CO., LTD.

Web Site: www.kroppco.co.jp
Phone: +81-3-3807-7648
4-17-7 Higashi-Nippori, Arakawa-ku, Tokyo Japan 116-0014