

Thank you for purchase our products. Please confirm this manual and your transmitter manual before using this product. We will change this manual without announcement for update products.

High Speed response compatible : Normal mode/ HCS mode
 Input channel : 2ch
 *If you use the gain adjustment through transmitter, must use 4ch transmitter and receiver.
 Input Voltage : 4.8V ~ 7.4V / Size : 20.0×24.0×14.0mm / Weight : 8.3g
 Accessory : Connection cable (For 1ch-IN connecting)

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

Warning The contents of this display show a possibility of death or where a serious injury may occur
 Warning or a highly substantial damaging accident may occur.

This product is manufactured for surface use radio controls. *Discontinue use for all other purposes. Discontinue use in the event of a thunder storm. *There is danger of a lightning bolt striking the antenna of the transmitter. •Discontinue use when consuming alcohol or medication that may hinder concentration or judgment. *Unexpected accidents are caused with a judgment mistake. •When rain and puddles are present, please discontinue use. *There are times when water enters into the equipment and control will be lost. •Only use the batteries specified in the instruction manual I 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.

Attention This displays shows the possibility or a substantially damaging accident which can cause injury.

Please avoid storage in a place of high temperatures and high humidity because it may cause the breakdown, damage and deformation of the product. •Please note when using with an engine model, place where exhaust and the waste oil will not come into contact with the product. *In case of submerging in oil or water, please send it out for repair. •This product's performance is designed for use in the shown specified usage which is based on this instruction manual and the instruction manual of the transmitter which is used. When the instructions are not understood, please contact our service department for advise. •After verifying the safety of use, think of all the accidents possible and please enjoy with responsibility.

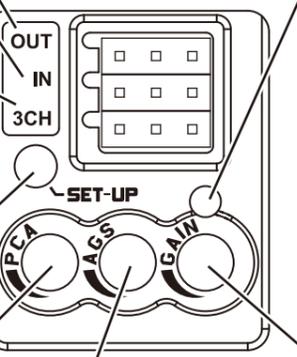
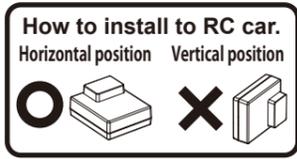
**Our company cannot owe responsibility from the nature of the radio control models
 And the customer assumes all responsibilities that result from this product being used.**

Function and Operation of this product

This product automatically counter steers in a RC car. This unit has a special function as listed below :

1. Connecting to Receiver and Servo.

- OUT :** Connect to Steering Servo.
- IN :** Connect to 1ch of Receiver (ST:Steering)
 ※Use the cable that is included with this product.
- 3ch :** Connect to 3ch or 4ch.
 ※Cable is an optional part No.36519 Black Connecting cable (100mm)
 Also, You can use KG-X when you don't use this connection. But you can adjust the gain through the transmitter when this connection is being used.



- LED : Display System status with 2 colors.
- Normal Status : Green lights up.
- Under adjustment: Refer to each function.
- Low voltage alert : Red flashing

Attention This system is supplied from receiver's power. Please stop usage when low voltage is displayed in this system.

2. Initial setting.

SET-UP: Use for Initialize.
 ※Refer to next page for setting.

3. Adjustment for the effect of the gyro.
 Please check while driving.

Function 1. PCA
 (Priority Control Adjuster)

[The Function]
 You can adjust mixing rate of the Normal signal and Gyro effect signal.

[The operating method]
 Gyro priority is increase when turn to right by PCA VR. Transmitter signal (your operation) priority is increase when turned to left by PCA VR.

•LED : Green is flashing
 ⇒ Green is light up

※Please start VR position from center and adjust to your position.

Function 2. AGS
 (Anti Glitching System)

[Function]
 This function restrains vibration of the servo when the gyro gain is set to high.

[The operating method]
 When vibration of servo is occurring due to high gain setting or the Characteristic of servo, please adjust by turning on the VR to stop vibration.

•LED : Red and Green are flashing
 ⇒ Green light up

※Please turn on the VR and adjust in 5 minute increments.

Function 3. GAIN
 (Gyro gain adjustment)

[Function]
 This function is adjusted by the VR of the unit or 3ch of the controller.

[The operating method]
 Rotating the GAIN volume to the right increases the gain. Increasing the gain increases the amount of counter-steers.

•LED : Red Flash ⇒ Green lights

※If Glitching occurs by increasing the gain, readjust the AGS volume. If Glitching does not stop with the AGS volume, please reduce the gain.

※When starting use, please test from about 50% (volume center) and increase / decrease depending on your preference.

Attention Note in regard to use

- When using 3 - channel gain adjustment, set 1ch (Steering) and 3ch response mode (NORMAL / HCS mode) in the same mode. (in case HCS mode compatible models such as KR-415 FHD is used)
- When 3ch setting is 0 (neutral), it is the minimum gain.
- As you move away from the (+) or (-) direction, the gain increases.
- When 3ch is connected, the gain volume becomes invalid.

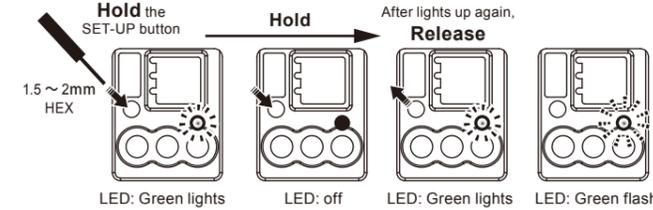
※The 0 (+) Phillips screwdriver is recommended to rotate the adjustment volume.

Initial setting You must do the initial settings when you start using this unit.
 ※ Makes sure the car is standing still before turning on the KG-X. The KG-X starts immediately after switched on.

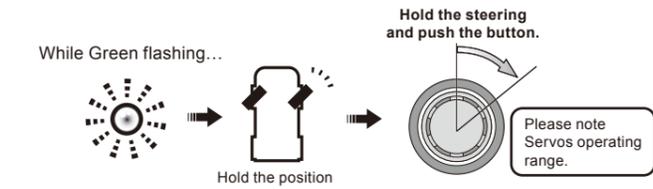
1. Setting for end point

Limit to Maximum movement of the servo to protect from mechanical damage.

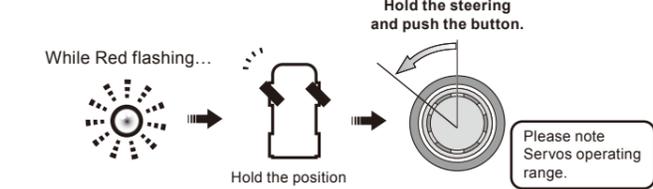
- Turn on the transmitter and receiver.
- Push button and hold. Green LED lights up and goes off, Please hold the button until the LED lights up again. After releasing the button, the Green LED starts flashing.



- Turn to left(or right) steering wheel on the transmitter and hold this position, and push SET-UP button.



- Turn on red LED. Turn to right(or left *opposite side for step③) steering wheel in the transmitter and hold this position, and push SET-UP button.



- LED changes to Green. Finished initializing setup.

Green lights When the Green lights do not appear, check the wire connections.

Note in regard to use

- End point setting and reverse setting need only to be performed only once. These settings are saved to memory of the unit.
- If you change response mode in the transmitter, change receiver, change servo, please do these settings again.
- If you use the gain setting by transmitter, response mode of 3ch (or 4ch) and 1ch(steering) must be same.

How to transmitter setting 3CH functions

- [EX-2, EX-RR]**
 - Menu : Function>3 4ch>3CH MODE GYRO
 - Use Gain setting by ET3: Connect 3ch of receiver to 3ch of KG-X (This is control by right side trim lever of steering)
 Use Gain setting by ET5: Connect 4ch of receiver to 3ch of KG-X (This is control by the thumb of left hand.)
- [EX-1 KIY, ESPRIT4]**
 - Menu : SYSTEM > RESPONSE OUTPUT change to 4CH
 - Menu : MAIN MENU >3/4ch>3ch control> 3ch control menu.
 Change to ANALOG in the MODE.
 - 3ch control :Set to KEY in the ANALOG Menu.
 - Use Gain setting by KEY(This is set in the 3)
 Confirm position by MONITOR display.
 *ESPRIT4: You can use by setting GYRO in the 3ch Mode.

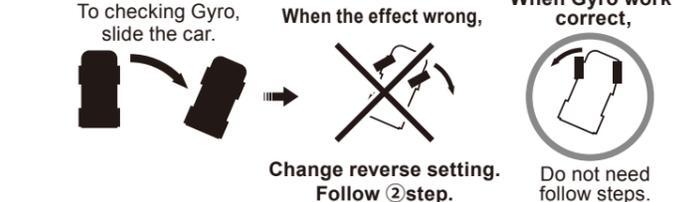
•If you are using HCS mode compatible models such as KR-415 FHD, when using 3 - channel gain adjustment, set 1ch and 3ch response mode (NORMAL / HCS mode) same.

2. Set Up reverse.

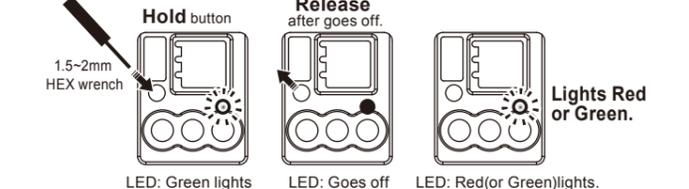
This is use for changing the direction of the Gyro effect. If Gyro effect direction is not correct, please change the setting as informed below.

If Gyro effect is correct, you do not need to follow these steps.

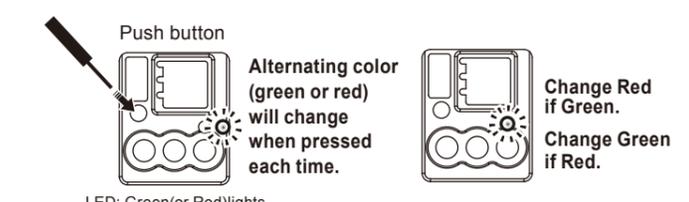
- After turning on the transmitter and receiver, check the movement of steering.



- Push button and hold. Please release button when Green LED goes off. LED lights Red or Green(this color means Reverse mode).



- LED will change to other colors, after you push the SET-UP button.



- Turn off power. This setting is done.

Requesting repair service

Please write the following items in as much detail as possible and send it with the repair goods.

- (1) Situation of the trouble.
- (2) Equipment used. (type of transmitter, receiver, servo, and ESC)
- (3) Vehicle name and installing situation when being installed.
- (4) The type and the number of items that have been sent.
- (5) Return address, name, and telephone number.

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