

Ultra
HIGH SPEED RESPONSE

3ch
SYSTEM

KO PROPO®
EX-5UR

Ultra High Speed Response

Instruction manual

2.4GHz
SPREAD SPECTRUM

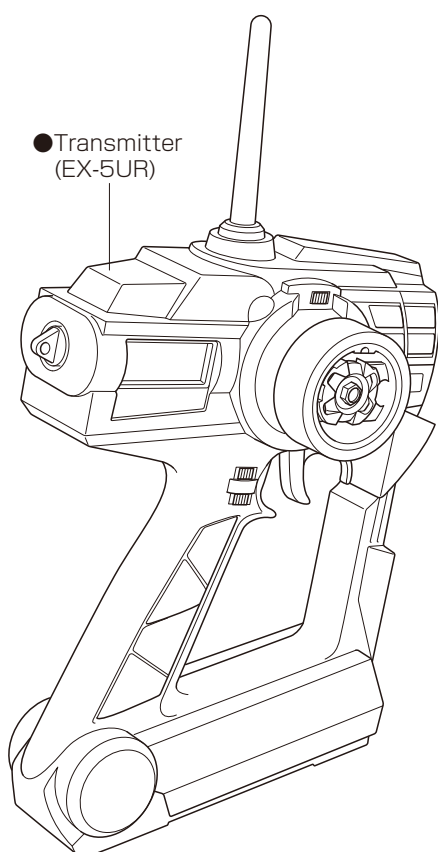
www.kopropro.co.jp

Thank you for purchasing EX-5UR. Please read and fully understand the instructions prior to use R/C model.

EX-5UR Features

Though developed as a well-balanced and controllable entry model, EX-5UR ultra high-response transmitter uses 2.4GHz as a frequency and allows simultaneous running without checking unused band. This high standard model is widely recommended from beginners to enthusiasts. 27 functions allows you to make detailed settings for R/C race. This set is available either "Electronic Speed Controller Set" for electric powered cars or "2-servo set" for gas R/C cars. Refer to the instructions according to your R/C car.

Set components and cable connection

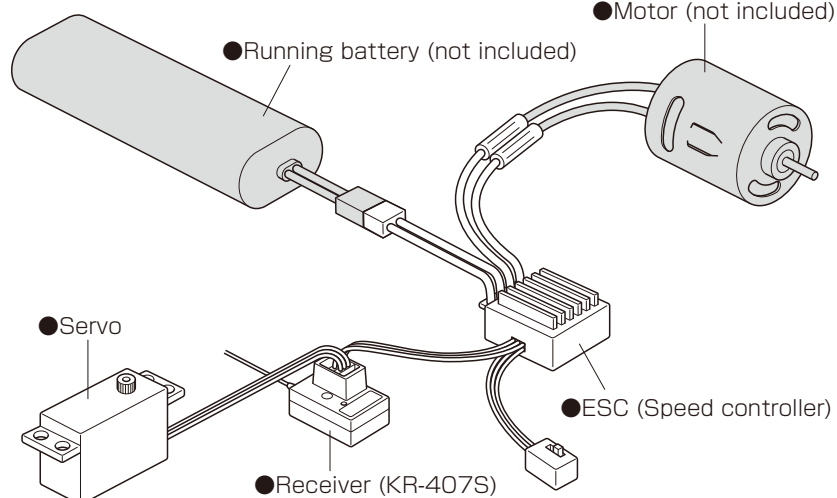


● Transmitter (EX-5UR)

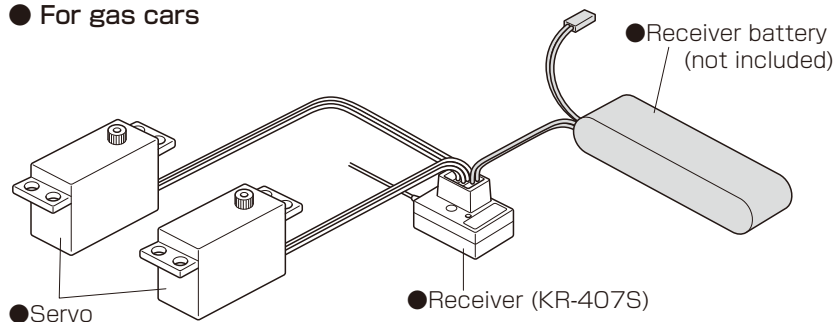
- Servo horn
- Servo grommet
- Digital servo sticker
- Receiver connector cap

MADE IN JAPAN

● For electric cars



● For gas cars



Caution! When using units not included in the set, be sure to use products compatible with "Ultra High Speed Response". Please refer to our website for details (www.kopropro.co.jp) (Japanese only)

■ For safe operation

With the nature of radio controlled model, improper usage may result in serious accidents. In order to avoid these circumstances, please read following contents before use. We cannot be held responsible for problems encountered when not complying with these cautions and notices.

⚠ Warning! Failure to observe the matter discussed in such an item poses a serious threat of death or severe injury.

⚠ Caution! Failure to observe the matter discussed in such an item poses a possibility of injury or damage to the equipment or property.

Caution when installing units

⚠ Warning!
Prohibited matters

- Make sure metal parts do not come in direct contact to model (chassis/ship hull) by vibration.
- ※ Noise of metal parts may result in malfunction of receiver, and the model may run out of control.
- Do not cut or bundle receiver antenna with other cables.
- ※ It may result in decreasing the sensitivity of receiver and may result in the model running out of control.
- Note polarity when installing batteries to transmitter and receiver. ※ It may damage R/C units.

⚠ Warning!
Enforcement matters

- Be sure to connect receiver, servo and switch connectors correctly.
- ※ If connections are loosened by vibration, the model may run out of control.
- Attach receiver using thick double-sided tape to avoid direct contact with other parts.
- ※ Strong shock and vibration may result in the model running out of control.
- Operate servo to check that there are no unnecessary forces onto the push rod.
- ※ It may damage the servo or increase the consumption of batteries.
- Make sure to use rubber grommet to attach servo and be sure that the servo is not touching mechanism plate directly. ※ The vibration may damage the servo and the model may run out of control.
- Use genuine KO transmitter, receiver, servo, speed controller, and optional parts.
- ※ We cannot be held responsible for problems encountered when using with other maker's products.

Notes on driving

⚠ Warning!
Prohibited matters

- Do not use in thunderstorms. ※ There is possibility of lightning striking the antenna.
- Do not use in the rain or in a location where water might get in.
- ※ The unit may become wet in and run out of control.
- Do not use in the following places.
 1. Near to other radio control circuits (within 3km)
 2. Near to people or on the street.
 3. Near electric wires or communication facilities.
- ※ In the case of the model running out of control, dangerous situations will occur.
- Do not run the model when you experience difficulties in concentration through tiredness, alcohol or medication. ※ The miss-judgment may result in accidents.
- Do not allow fuel or exhaust to touch plastic parts. ※ It may attack plastic.

⚠ Warning!
Enforcement matters

- Make sure that model memory is matched to the models currently running.
- ※ Otherwise, it may cause car to run out of control.
- Make sure to stop engine (disconnect motor cables) before making function change.

⚠ Caution!
Prohibited matters

- Do not touch engine, motor or speed controller immediately after running.
- ※ They are hot and can cause burns
- Transmitter emits a high-frequency energy from antenna. The antenna may cause a kind of stimulus if touched by fingers.

⚠ Caution!
Enforcement matters

- Always turn on the transmitter first, followed by the receiver. When turning off, turn off the receiver first, followed by the transmitter.
- ※ If you don't follow the order, receiver may get interference and run out of control.
- Dismantling of transmitter is prohibited and it can be punished. Disassembly and modification of all units may cause accidents such as a short circuit. Also, repair service may not be accepted in this case.
- Do not use in aircraft, hospital, near electrical equipment such as fire alarm or medical equipment. It may cause malfunction and result in serious accidents. Turn off the transmitter immediately if it effects on other wireless or electric appliances.
- 2.4GHz transmitter must be registered in the Japan Radio Control Safety Association. This product is pre-registered. Note that transmitter without registration is regarded as violations of radio law.

Notes after driving

⚠ Warning!
Enforcement matters

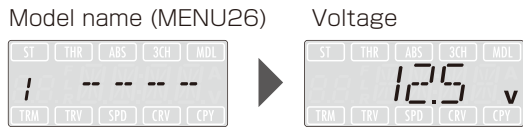
- When using with electric powered R/C car, make sure to remove batteries after running.
- ※ If the power turns on accidentally, it may cause the model to run out of control or fire disaster.
- Keep transmitter, batteries and model out of reach of children.
- ※ Chemical material may cause personal injury.

⚠ Caution!
Enforcement matters

- Remove batteries from transmitter when not in use for a long time.
- ※ If you leave batteries in the transmitter, leakage may damage transmitter.
- Avoid storing transmitter and receiver in the following places.
 1. Extremely hot or cold places (+40C or -10C)
 2. Direct sunlight
 3. High humidity places
 4. Vibration
 5. Dusty places
- ※ If you store the unit under these circumstances, it may result in deformation or damage to the unit.

■ Name of parts

LCD display (factory setting)

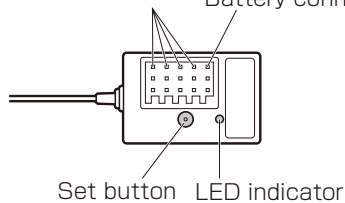


LCD indicates voltage after a certain period of time.

※Alarm sounds when batteries are depleted. Install fresh batteries as soon as possible to keep radio power.

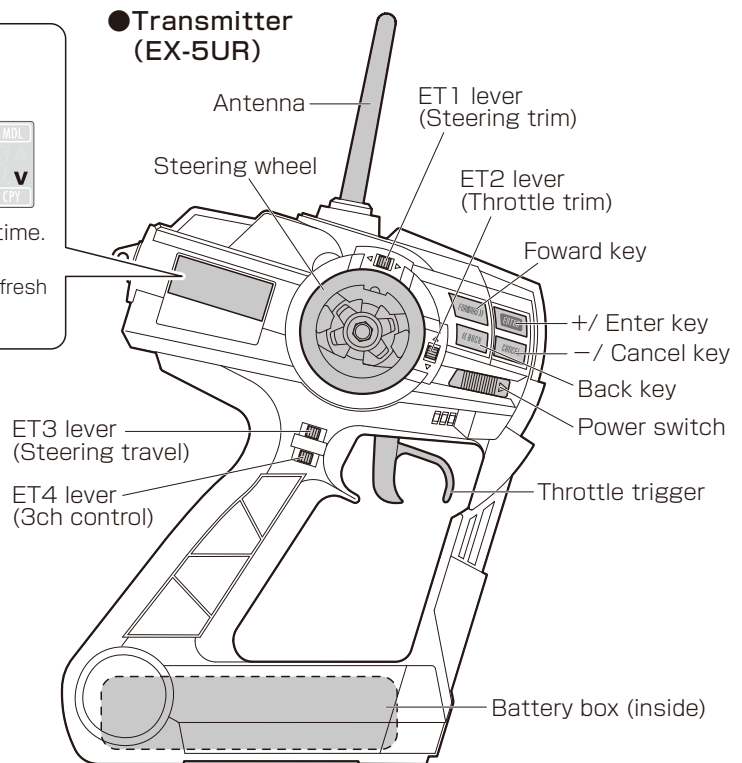
●Receiver(KR-407S)

Channel 1~4 connector
Battery connector



※Regarding servo and ESC, please refer each set-supplied instruction manual.

●Transmitter (EX-5UR)



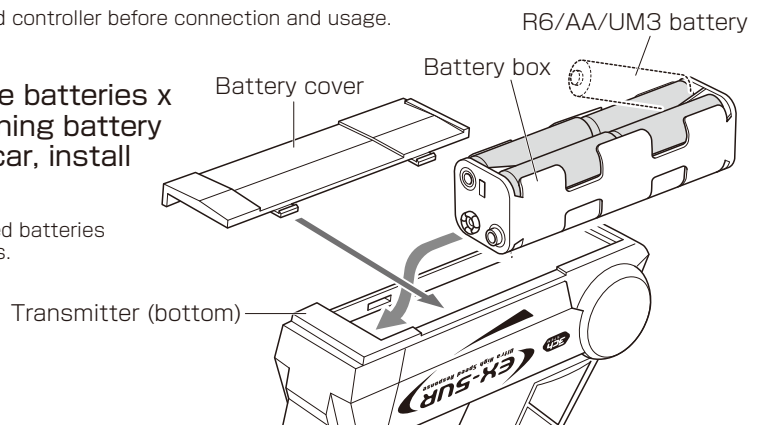
■ Unit preparation

1. Install receiver, servo, ESC (when using with electric car) and connect cables. Install receiver noting anti-noise measures. ←Refer to P.4

※Read instructions included with servo and speed controller before connection and usage.

2. Install batteries (R6/AA/UM3 size batteries x 8) to transmitter, then install running battery to electric R/C car. For gas R/C car, install receiver batteries.

※Note polarity and install fresh batteries. Depleted batteries may deteriorate radio power and cause problems.



3. Register the transmitter to the receiver to complete "pairing" ←Refer to P.5

※EX-5UR requires "pairing" to register the transmitter ID number to the receiver the first time you use. When operating several receivers (cars) using one transmitter, perform "pairing" for each receivers only first time you use.

4. Adjust steering and throttle/brake settings ←Refer to P.5

5. Adjust failsafe ←Refer to P.15

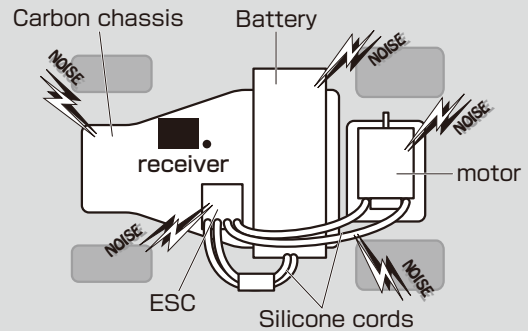
■ Notes on installing receiver (anti-noise measures)

Locate antenna cable as far away from noise source!

⚡ Be careful of noise!

Assume that all areas where large currents are flowing are generating noise! Locate antenna cables and receiver as far away from the motor, ESC, silicone cords as possible. (Materials such as metal or carbon chassis also conduct noise)

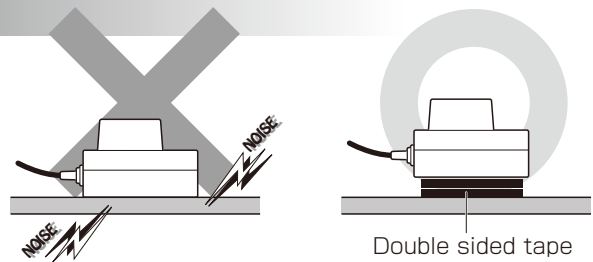
R/C model is controlled by radio wave. Therefore, anti-noise measures are the most important factor. Take measures to ensure optimum performance of your R/C model and driving technique.



● Fixing receiver to carbon chassis

When fixing the receiver to the chassis or on the mechanism deck, use more than 2 layers of double-sided tape to avoid direct contact with chassis. Chassis and mechanism deck (especially carbon material) can also conduct noise. Making space between receiver with them is recommend to ensure protection against noise.

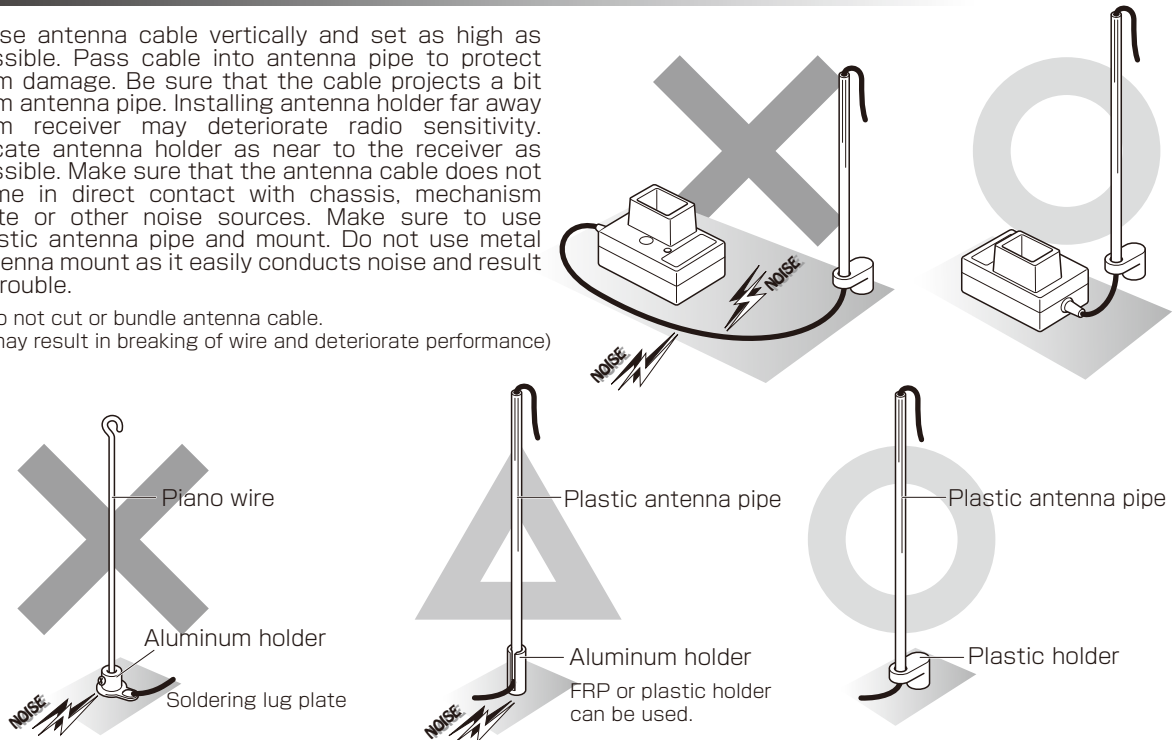
*Note receiver LED position when installing.



● Antenna installation

Raise antenna cable vertically and set as high as possible. Pass cable into antenna pipe to protect from damage. Be sure that the cable projects a bit from antenna pipe. Installing antenna holder far away from receiver may deteriorate radio sensitivity. Locate antenna holder as near to the receiver as possible. Make sure that the antenna cable does not come in direct contact with chassis, mechanism plate or other noise sources. Make sure to use plastic antenna pipe and mount. Do not use metal antenna mount as it easily conducts noise and result in trouble.

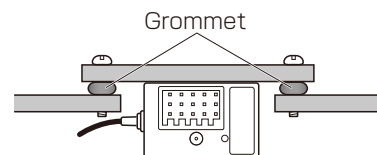
*Do not cut or bundle antenna cable.
(It may result in breaking of wire and deteriorate performance)



● Attaching to a gas car

Engine vibration may damage the servo. Make sure to attach grommet (receiver holder) to reduce vibration. Do not attach directly to chassis or mechanism plate using double-sided tape. The installation position should be as far as possible from heat from engine or exhaust.

*Note receiver LED position when installing.

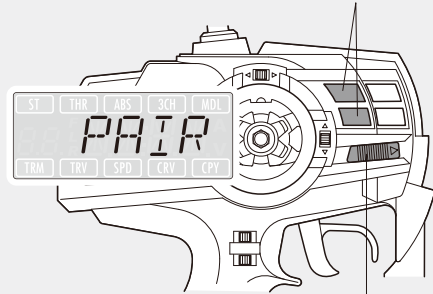


▶ How to pairing

Register receiver to the transmitter

- ① Hold both Forward and Back keys and switch transmitter on.
- ② "PAIR" (blinking sign) will be displayed on the LCD screen and alarm sounds.
- ③ Blinking and alarm stops after approx. 5 seconds. Then LCD screen displays "PAIR". Now the transmitter is ready.
- ④ Move receiver close to the transmitter (approx. within 1m)
- ⑤ Hold set button of the receiver then switch on.
- ⑥ Release set button. Receiver LED indicator turns on after pairing is completed. Switch off both transmitter and receiver.

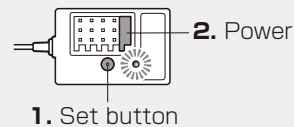
1. Forward key + Back key



2. Power switch

▶ Check movement

- ① Switch on the transmitter first, then switch on the receiver. Confirm that the receiver LED indicator lit up.
- ② Check movement of the servo and the amplifier.



1. Set button

▶ Adjusting steering

Adjusting turning angle of the steering servo.

- ① Adjust "MENU02: Steering trim" to 0 (default setting)
- ② Adjust "MENU08: Steering sub-trim" so that the car run straight with the steering in neutral.
- ③ Operate steering wheel. Make sure that the setting does not lock the linkage. In this case, reduce values in "MENU03: Steering travel".
If turning angle is not enough, adjust each left and right angle at the maximum in "MENU04: Steering balance R" and "MENU05 steering balance L".

※If left and right turning radius are not same at low speed running, increase values of steering balance of smaller radius to adjust. Adjust steering travel to reduce turning angle if car turns excessively while high-speed running.

※Frequent setting or worn-out linkage will deteriorate balance of steering. Periodical adjustment is recommended to keep performance of steering.

▶ Adjusting throttle

Adjust the movement amount of speed controller (electric car) / throttle linkage (gas car)

▶When using with electric car: Refer to the instructions included with ESC.

▼When using with gas R/C car: Adjust throttle linkage

- ① Reduce values in "MENU12: Throttle high point" to avoid exerting excessive pressure on the linkage when throttle is applied.
- ② Adjust in "MENU13: Throttle brake" to avoid exerting excessive pressure when brake is applied.

▶ Adjusting anti-lock brake (ABS)

Whilst in braking operation, pumping brake prevents wheel lock and being unstable (Anti Lock Braking System). Braking power and pumping speed can be adjusted.

- ① Adjust ABS power in "MENU19: ABS power". Increase values to expand pumping width.
- ② Adjust ABS speed in "MENU20 ABS speed".
- ③ If servo moves more than brake pad stroke range or vibrates due to excessive speed, it may shorten life span of the servo. In this case, re-adjust.

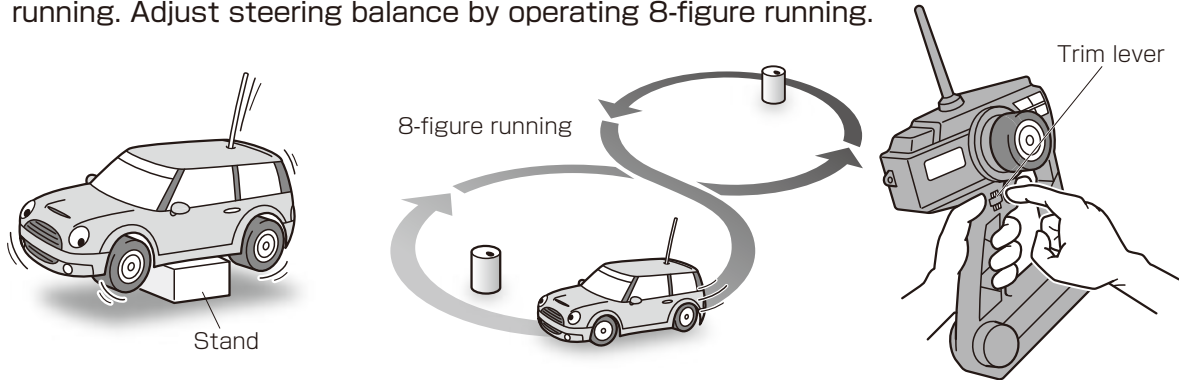
■ Procedure when running

1. Power on: Note surroundings and switch transmitter on, then switch receiver on.

2. Checking model: Confirm model to be used.

※EX-5UR automatically finds unused frequency band after switching on. This function is called "carrier sense". To perform carrier sense effectively, switching on transmitter around the running area as close as possible.

3. Checking movements: Raise wheels from ground and operate transmitter to check movements. Detail adjustment using steering/throttle trim lever should be done while running. Adjust steering balance by operating 8-figure running.



4. Power off: Switch off in receiver, transmitter order and remove running battery.

※Make sure to switch transmitter on and off after an interval of 2 seconds at least.

■ Functions (1-27)

▶ Select using FORWARD/BACK button

※The transmitter automatically memorizes each setting 1 second after changing. When switching transmitter off, wait more than 2 seconds after changing settings.



MENU01 : Steering monitor.....	P.7
MENU02 : Steering trim.....	P.7
MENU03 : Steering travel.....	P.7
MENU04 : Steering balance R.....	P.7
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MENU06 : Steering speed.....	P.8
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MENU08 : Steering curve.....	P.9
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MENU10 : Throttle monitor.....	P.9
MENU11 : Throttle trim.....	P.9
MENU12 : Throttle high point.....	P.10
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MENU14 : Throttle speed.....	P.10
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MENU19 : ABS power.....	P.12
MENU20 : ABS speed.....	P.12



MENU21 : 3ch monitor.....	P.13
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MENU01 : Steering monitor

Neutral position

► Displays the current position of steering.

☞ If steering direction is changed in reverse position, movement of steering and L/R will be reversed accordingly.



MENU02 : Steering trim

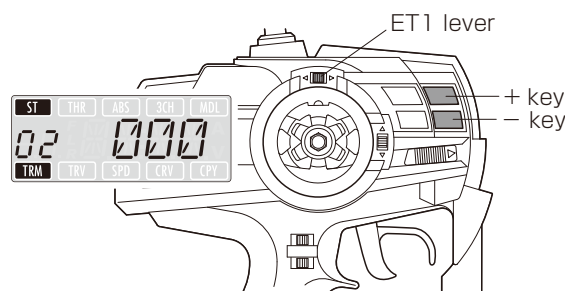
L 50 ~ 0 (Default setting) ~ R 50

► Neutral position of steering can be adjusted while running.

Adjust using +/- keys. Push both keys together to reset.

※Max. width may be changed according to steering travel/balance settings.

- ☞ The position of the edge of movement does not move. Only the neutral position moves.
- ☞ When changing the edge of movement, adjust in "MENU08:Steering sub trim".
- ☞ Steering trim can also be adjusted by using ET1 lever.



MENU03 : Steering travel

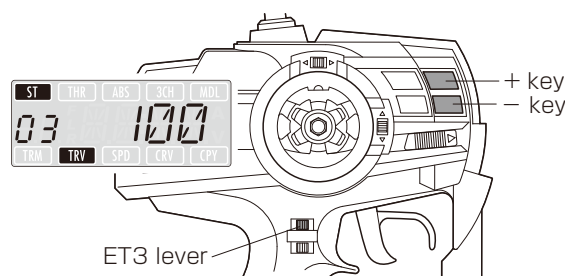
40 ~ 100 (Default setting)

► This function allows you to adjust the amount of servo movement when fully turns steering wheel.

Adjust using +/- keys. Push both keys together to reset.

Caution! Make sure the setting does not cause excessive force to the servo as it may result in malfunction.

- ☞ Steering travel can also be adjusted using ET3 lever.
- ☞ When adjusting right and left movement individually, adjust in "MENU04: Steering balance R" and "MENU05: Steering balance L".



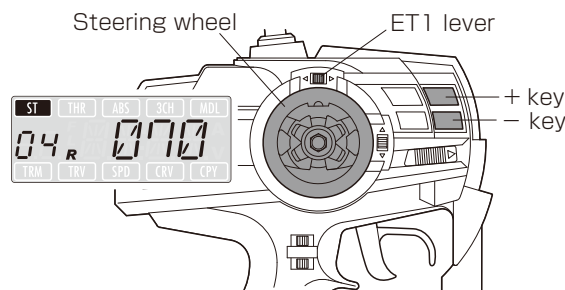
MENU04 : Steering balance R

40 ~ 70 (Default setting) ~ 100

► This function allows you to adjust right turning angle (Use to correct left and right turning radius)

Adjust using +/- keys. Push both keys together to reset.

☞ Fully turns steering wheel to right and operate ET1 lever to make setting of steering balance R.



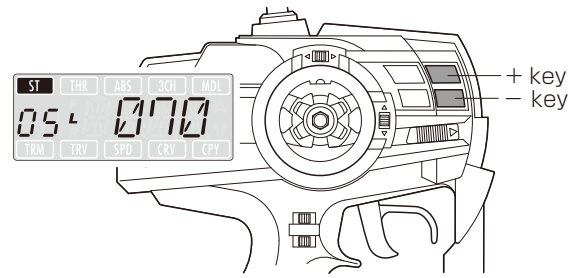
MENU05 : Steering balance L

40 ~ 70(Default setting) ~ 100

▶ This function allows you to adjust left turning angle.
(Use to correct left and right turning radius)

Adjust using +/- keys. Push both keys together to reset.

☞ Fully turns steering wheel to left and operate ET1 lever to make setting of steering balance L.



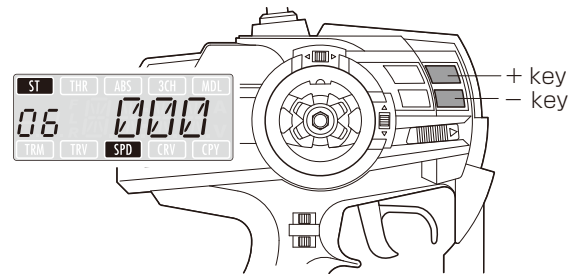
MENU06 : Steering speed

-100 ~ 0(Default setting) ~ +100

▶ Use this function to adjust the steering speed when turning steering wheel.

Adjust using +/- keys. Push both keys together to reset.

※ It effects on both TURN and RETURN directions.
☞ Speed type servo may not move smoothly due to excessive speed if sets over +30 values.



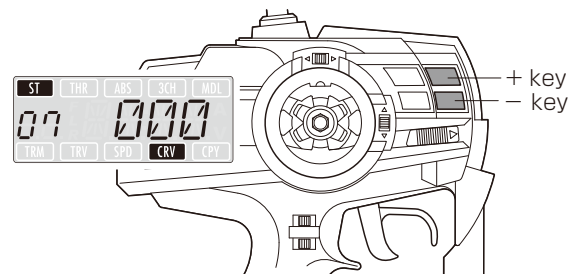
MENU07 : Steering curve

-50 ~ 0(Default setting) ~ +50

▶ Use this function to adjust an initial response of the steering servo.

Adjust using +/- keys. Push both keys together to reset.

※ +: Reacts greatly at the start, and the response becomes loose later
-: Reacts loosely at the start, and the response becomes big later
☞ When using with other function such as "steering speed", check the effect one by one.



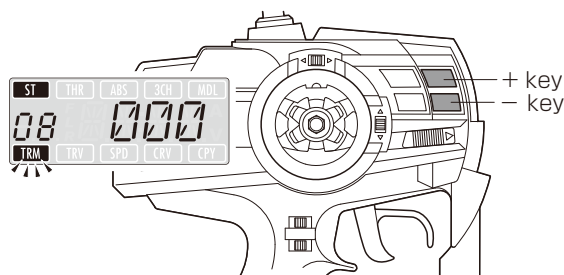
MENU08 : Steering sub trim

L30 ~ 0(Default setting) ~ R30

▶ This function allows you to adjust the edge of operation and neutral position at the same time.
(Use when installing servo and test running)

Adjust using +/- keys. Push both keys together to reset.

- Ⓞ Adjust "MENU02: Steering trim" to adjust neutral position only.
- Ⓞ When value of the sub trim gets bigger, adjust the linkage and make it a smaller the value. In certain circumstances, too big value may cause dead area (servo does not react) at the edge of operation.



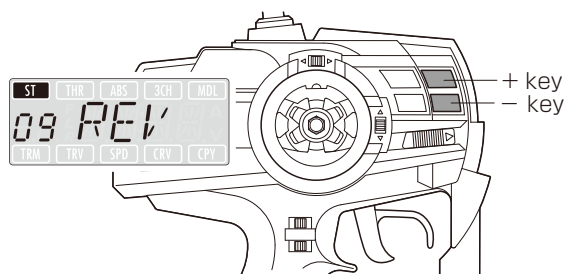
MENU09 : Steering reverse

NORM / REV(Default setting)

▶ This function allows you to change the direction of servo movement
(Use this function when the turning direction of servo is opposite to the transmitter operation)

Adjust using +/- keys. Push both keys together to reset.

※REV : Reverse NORM : Normal



MENU10 : Throttle monitor

Neutral position

▶ Displays current throttle position.

- Ⓞ If throttle direction is in reverse position, +/- and throttle movement will be reversed accordingly.



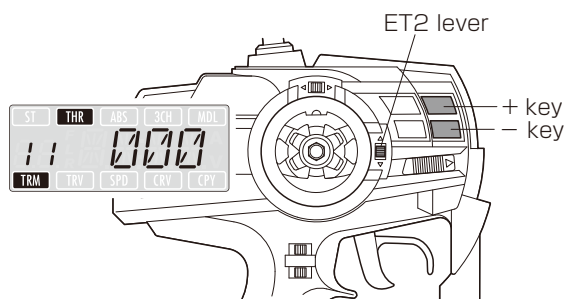
MENU11 : Throttle trim

b50 ~ 0(Default setting) ~ F50

▶ Adjust neutral position of throttle while running

Adjust using +/- keys. Push both keys together to reset.

- Ⓞ In general, trim adjustment is not required when using with electric car with preset electronic speed controller (ESC).
- Ⓞ The position of the edge of movement does not move. Only the neutral position moves.
When changing the edge of movement, adjust in "MENU17: Throttle sub trim".
- Ⓞ Throttle trim can also be adjusted by using ET2 lever.





MENU 12 : Throttle high point

0 ~ 70(Default setting) ~ 100

▶ Sets only the max forward movement on throttle.
(Allows you to adjust highest point of ESC of electric car or "high" carburetor of gas car)

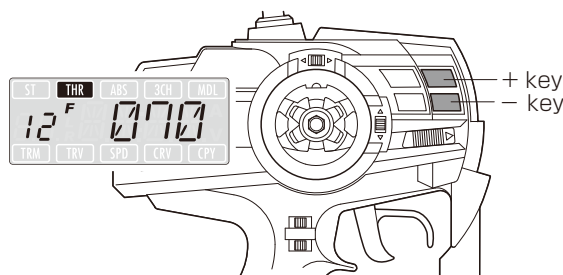
Adjust using +/- keys. Push both keys together to reset.

Caution! Creating a large value for a gas car puts an increase burden on servo and may result in damage.

Caution! In an electric car, when set value is too small the ESC can not show a better performance. Please start from +70 (factory setting) setup.

Caution! Minimum value is 0 but doesn't operate to forward. Also, throttle servo does not move.

Caution! When a small the value of "Throttle high point" is made, and then a large value in "MENU 11 : Throttle trim" is set to an advance direction, the amount of operation will be extremely small.



MENU 13 : Throttle brake

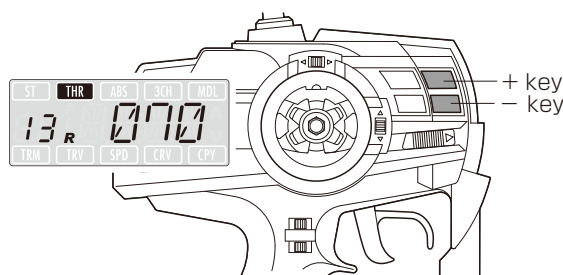
0 ~ 70(Default setting) ~ 100

▶ Adjust only the brake of throttle and max movement of reverse running.

Adjust using +/- keys. Push both keys together to reset.

Caution! In an Electric car, a value set too small the ESC will not show better performance. Please start from +70 (factory setting) in this case.

Caution! Keep in mind that a brake or reverse running does not work when a set up is 0. Please check the brake before running as functions of ESC also effects on.



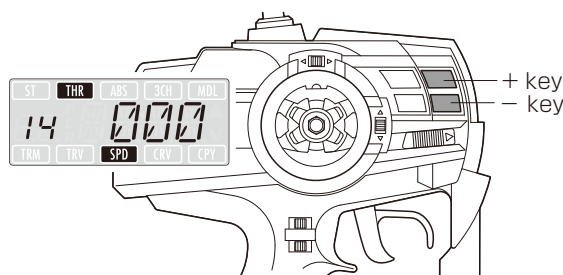
MENU 14 : Throttle speed

-100 ~ 0(Default setting) ~ +100

▶ Adjust reaction velocity of throttle.

Adjust using +/- keys. Push both keys together to reset.

※To improve response, adjust in + direction.
※To improve handling, adjust in - direction



MENU 15 : Throttle curve F

-50 ~ 0(Default setting) ~ +50

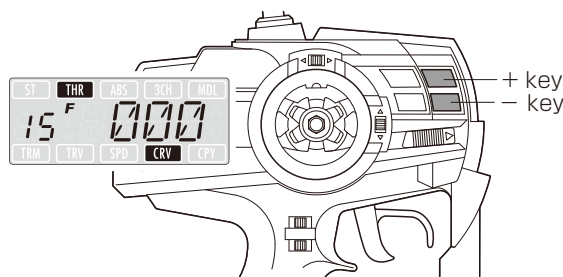
▶ This function allows you to adjust throttle servo movement on actual trigger operation (forward only).

Adjust using +/- keys. Push both keys together to reset.

※ The throttle response can be made quick (+) or mild (-)
 + makes quick at start, and mild later
 - makes mild at start, sensitive later

- 🔗 Quick curve (+ values) reacts greatly at the start, and the response becomes mild later
- 🔗 Mild curve (- values) reacts mild at the start, and the response becomes sensitive later

🔗 When using with other function, check the effect one by one.



MENU 16 : Throttle curve B

-50 ~ 0(Default setting) ~ +50

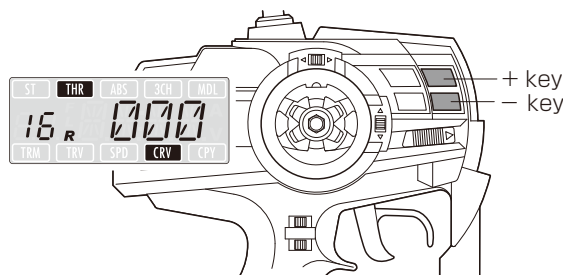
▶ This function allows you to adjust throttle servo movement on actual trigger operation (braking only).

Adjust using +/- keys. Push both keys together to reset.

※ The throttle response can be made quick (+) or mild (-)
 + makes quick at start, and mild later
 - makes mild at start, sensitive later

- 🔗 Quick curve (+ values) reacts greatly at the start, and the response becomes mild later
- 🔗 Mild curve (- values) reacts mild at the start, and the response becomes sensitive later

🔗 When using with other function, check the effect one by one.



MENU 17 : Throttle sub trim

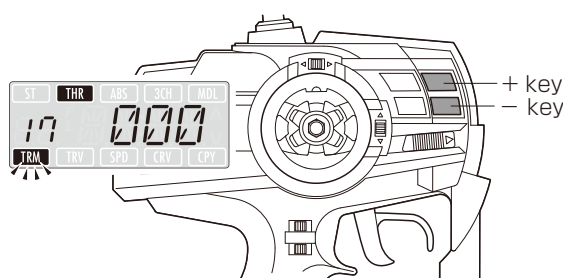
b30 ~ 0(Default setting) ~ F30

▶ This function allows you to adjust the edge of operation and neutral position at the same time. (Use when installing servo and test running)

Adjust using +/- keys. Push both keys together to reset.

※ The whole operation angle including neutral position moves. Use this function if you can not corrects neutral position by adjusting servo horn or linkage.

- 🔗 Adjust "MENU 1 : Throttle trim" to adjust neutral position only.
- 🔗 When value of the sub trim gets bigger, adjust the linkage and make it a smaller the value. In certain circumstances, too big value may cause dead area (servo does not react) at the edge of operation.



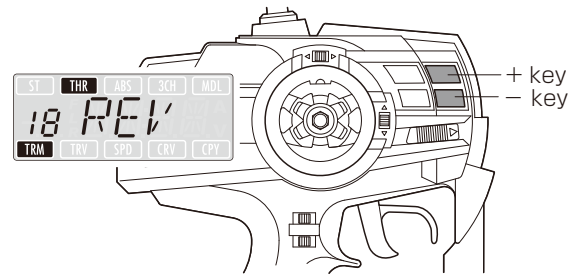
MENU 18 : Throttle reverse

NORM / REV (Default setting)

▶ You can change the direction of throttle movement
(Use this function when the turning direction of servo is opposite to the transmitter operation)

Adjust using +/- keys. Push both keys together to reset.

※REV : Reverse NORM : Normal



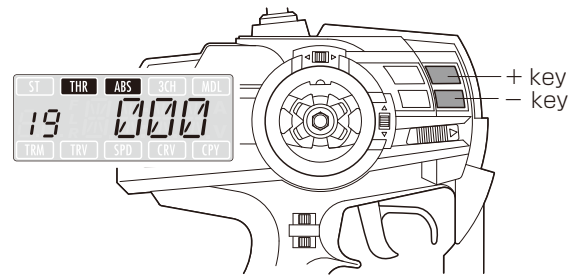
MENU 19 : ABS power

0 (Default setting) ~ 100

▶ This function allows you to adjust amount of ABS pumping.

Adjust using +/- keys. Push both keys together to reset.

※Adjust pumping amount of ABS. Effective to improve stability if wheel locks during braking and as a result cornering becomes smoother.



MENU 20 : ABS speed

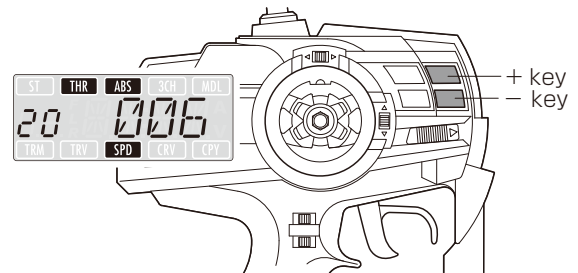
1 ~ 6 (Default setting) ~ 10

▶ This function allows you to adjust speed of ABS

Adjust using +/- keys. Push both keys together to reset.

※When making small the values, the servo moves slow and pumping cycle become short.
When making large the values, the servo moves fast and pumping cycle become long.

Caution! Too large values increase currency and may shorten life span of servo.





MENU21 : 3ch monitor

3ch movement

▶ Displays current 3ch servo movement.



MENU22 : Adjustment of 3ch position

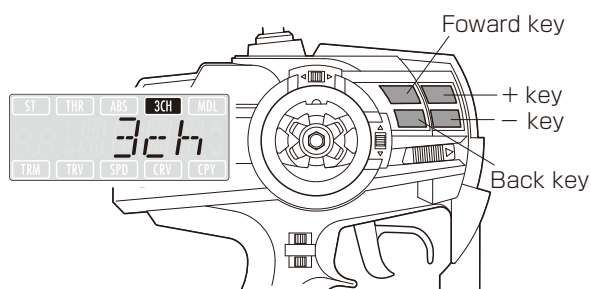
-127 ~ (Each default positions) ~ +127

▶ Adjusting the movement amount of 3ch servo in each position (position 01~05)

Adjust using

1. Hold + key for a while
2. Use Forward/Back keys to choose positions
3. Push +/- keys to set positions.
Push both keys together to reset.
4. Push Forward key from (05 position) then LCD displays "EXIT". Push + key to set.

🔗 5 positions (-100 / -50 / 0 / +50 / +100) are factory preset.



MENU23 : Adjust volume

Calibration

▶ Recalibrate used volume settings

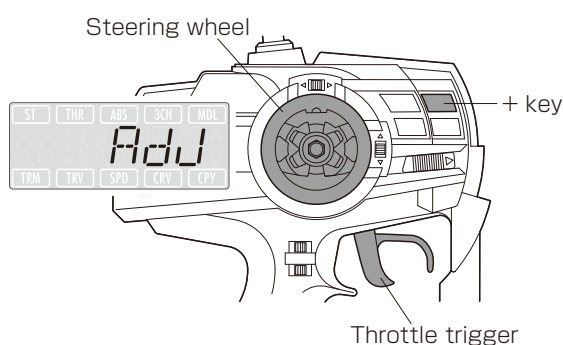
Adjust using

1. Hold + key for a while
2. Fully turn steering wheel to right/left then release.
3. Fully pull/press throttle trigger in forward/reverse position then release.
4. LCD displays "OK" . Then, hold + key for a while to set.

※CPU of the transmitter recognizes physical end points of steering/throttle and neutral position. It corrects volume consumption caused by frequently use or malfunction caused by shocks.

🔗 The use of this function will depend on your frequency of use and your operation method

Caution! This function can cause trouble when it is performed incorrectly. We recommend sending this to our service department for repair, when you are not familiar with this function.





MENU24 : Model reset

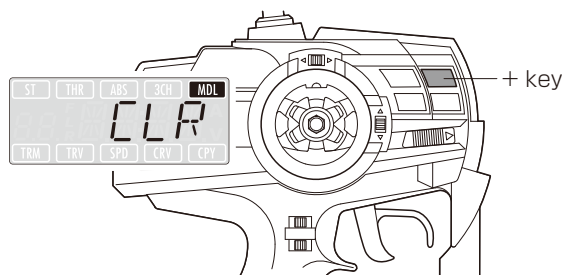
Reset

▶ This will erase all data of model memory.

Adjust using Hold + key for a while to erase

※LCD turns off when setting is finished.

Caution! Memory will be reset back to the factory settings.



MENU25 : Model copy

Copy

▶ Save the current model memory to other model memory

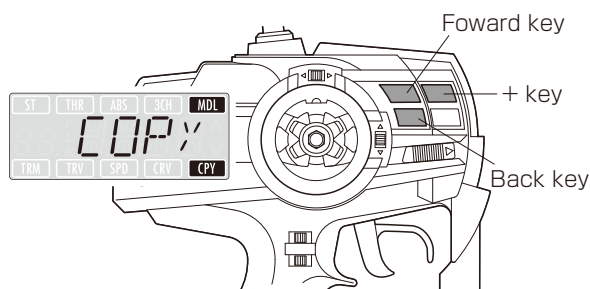
Adjust using

1. Push + key.
2. Use Forward/Back keys to choose a copy place (model number).
3. Push + key to copy.

※Copying data of model memory is useful when adjusting chassis setting according to condition of the track.

Caution! Please be sure that copy destination data will be overwritten.

Caution! The mode will be moved to "model select" of copy destination. If copying model 1 to model 2, model select will be changed to model 2 and data of model 1 (original data) will be saved.



MENU26 : Model name

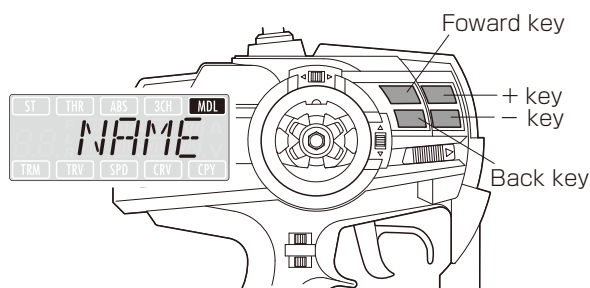
Registration

▶ Putting a name in the model memory.

Adjust using

1. Push + key.
2. Push +/- keys to select alphabets and numbers.
3. Push Forward/Back keys to select letters.
4. Push Forward key after selecting 4th letter. Push + key after LCD displaying "EXIT" .

🔗 All usable letters: - * / @ _ ¥ \ 0 1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z +



MENU27 : Model select

Select

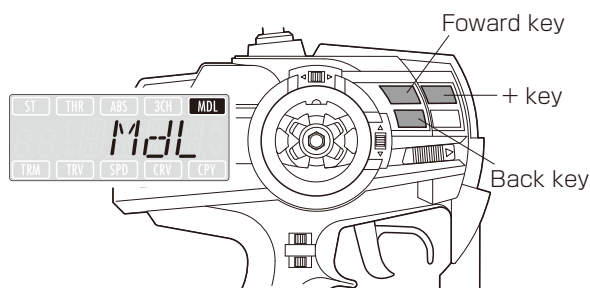
▶ You can change current model memory to other model memory.

Adjust using

1. Push + key
2. Push Forward/Back keys to choose other model memory.
3. Push + key to set.

🔗 You can save the model memory for 7 cars. It is useful to save each model memory to use several cars. Even the same car can have multiple numbers due to changes to the settings at every course.

Caution! Can cause of out of control operation when changing model memory while running.

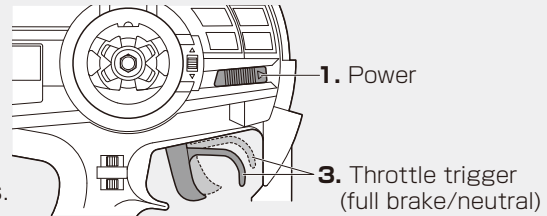


■ Safety function

▶ Failsafe setting

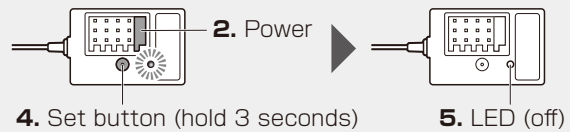
Failsafe automatically returns throttle (2ch) in desired position (full brake/neutral) if the model may run out of control.

- ① Switch transmitter on.
- ② Switch receiver on and check servo movement.
- ③ Operate throttle trigger in brake/neutral position (transmitter memorizes the position)
- ④ Hold set button of receiver more than 3 seconds. Release after LED turns off.



※Failsafe function can be checked by switching off transmitter. The data will be memorized until resetting.

※When replacing brake linkage of a gas car, resetting is recommended.



■ References

● Model does not work though the transmitter is on

LCD display is displayed with the start sound after switching on. If not, check batteries . If there is no problem with transmitter, check LED indicator of the receiver.

- ① In case of the LED is too dark or blinking, it shows conflicting radio signals from other sources. Change location or take some time before switching on.
- ② Power is not on if the LED does not shine. Reconnect receiver battery or amplifier cables.

Caution! EX-5UR(transmitter) uses 2.4GHz direct sequence spread spectrum (DS-SS) as a frequency band. The frequency band is also used for electric appliances such as personal computer w/wireless LAN, Bluetooth and microwave oven. In the case of radio interference, LED of KR-407(receiver) will not turns on correctly. Wait for a while or change location if LED flashes or lit up incorrectly.

● To increase cornering angle

If steering angle is not enough, adjust steering travel lever to increase travel. Use "MENU04/05: steering balance" to get more angle.

● To improve steering response

Adjust "MENU07: steering curve" or "MENU06: steering speed" at +(quick) side.

● To make steering characteristics milder

Adjust "MENU07: Steering curve" or "MENU06: Steering speed" at -(mild) side.
Adjust "MENU07: Throttle speed at -side.

● To slow down

Adjust "MENU14: Throttle speed" at -side.
Adjust "MENU12: Throttle high point" at -side.

■ After-sales service

Transmitter: KT-309

Operation method: Wheel + trigger type

Number of channels: 3 channels

Frequency: 2.4GHz

Modulation: Direct sequence spread spectrum (DS-SS)

Output: Approx. 10mW

Neutral pulse: 1.5msec

Data save memory: EEPROM

Supply voltage: R6/AA/UM3 size battery x 8 or 8 cells battery pack

Current consumption: Approx. 100mAh

Operation area: Approx. within 80m radius

Function: Compatible with High Speed Response (ULTRA)

Receiver: KR-407S

Modulation: Direct sequence spread spectrum (DS-SS)

Channels: 4 channels

Dimensions: 28×18.3×18.5mm

Weight: 7.4g

Supply voltage: 4.8~7.4V Function: Compatible with High Speed Response (ULTRA or above), ICS, Failsafe