RC6GS v2
Digital 6-Channel Proportional RC System
Instruction Manual V1.5
Adaptable to RC Cars/Boats/Robot

CE FCC RoHS

* Please be kindly noted that this manual will be updated regularly and please visit RadioLink official website to download the latest version.

Thank you for choosing RadioLink 2.4 GHz 6 channels radio -- RC6GS V2.

To fully enjoy the benefits of this product and ensure safety, please read the manual carefully and set up the device as instructed steps.

If any problems found during the operation process, either way listed below can be used as online tech support.

1. Send mails to after_service@radioLink.com.cn and we will answer your question at the earliest.

2. Send private message to us on our Facebook page or leave comments on our YouTube page

3. If the product is purchased from the local distributor, you can also ask them for support and repair as prefer.

All manuals and firmwares are available on RadioLink official website www.radiolink.com and more tutorials are uploaded. Or follow our Facebook and YouTube homepage to stay tuned with our latest news.
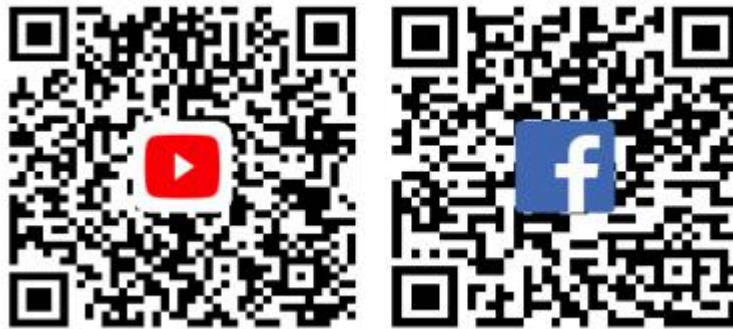
SAFETY PRECAUTIONS

- Never operate your model during adverse weather conditions. Poor visibility can cause disorientation and loss of control of your model.
- Never use this product in a crowd and illegal area.
- Always ensure the trim levers at 0 and battery properly charged before connecting the receiver.
- Always check all servos and their connections prior to each run.
- Always be sure about turning off the receiver before the transmitter.

WARNING

This product is not a toy and is **NOT** suitable for children under the age of 14. Adults should keep the product out of the reach of children and exercise caution when operating this product in the presence of children.

Water or moisture may enter the transmitter inside through gaps in the antenna or joystick and cause model instability, even out of control. If running in the wet weather(such as game) is inevitable, always use plastic bags or waterproof cloth to cover the transmitter.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can

radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

    -- Reorient or relocate the receiving antenna.

    -- Increase the separation between the equipment and receiver.

    -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

    -- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

    (1) This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

    (2) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Packing list

No.	Items	Qty
1	RC6GS V2 Transmitter	1
2	R7FG Receiver	1
3	XT60 Telemetry Cable	1
4	Lanyard	1
5	User Manual	1

CONTENTS

RadioLink Electronic Ltd
www.radiolink.com

I. RC6GS V2 Remote Control System

RC6GS V2, transmitter with chip STM32F103RB, 12ms only from transmitter to the receiver, thus provide synchronous control and perfect performance .
The same FHSS spread spectrum and 67 channels pseudo random frequency sequence hopping of AT9S Pro makes RC6GS V2 have superior anti-interference ability both at the same frequency band and different frequency bands. Control distance is up to 600 meters.

1.1 Transmitter

- Size: 213 *117 * 115.5mm
  (6.39"*3.51"*3.46")
- Weight: 342g(12oz)
- Channel: 6CH
- Antenna Length: 106mm(4.17")
- Control Range: 600m(1968.5ft)
- Operating Current: 80-120mA
- Operating Voltage: 4.8-15V
  (6pcs of AA battery or 2S-4S LiPo battery)

- RF Power: <20dbm
- Frequency: 2.4Ghz ISM Band（2400.0MHz--2483.5MHz）
- Modulation Mode: GFSK
- Channel resolution: 4096, the regular jitter is 0.5us
- Spread Spectrum: FHSS
  67 Channels Pseudo Random Frequency Sequence Hopping
- LCD Screen: 128*64 Resolution, LCD Back Light
- Low Voltage Alarm: Yes (can be customized on 2S-4S battery)
- Adaptable Models: Fishing boats, Robots
  Vehicles(Crawlers/Tanks/Truck)
- Compatible Receiver: R7FG, R6FG,R6F, R8EF, R8F, R4FGM,R4F
- Battery Tray Dimension: 89*59*18mm (3.5"*2.32"*0.71)
- Model Memory: 10

1.2 Receiver R7FG(Standard Pack)

RC6GS V2, come with R7FG, 2.4GHz 7 channels receiver, gyro integrated and high voltage servo supported.
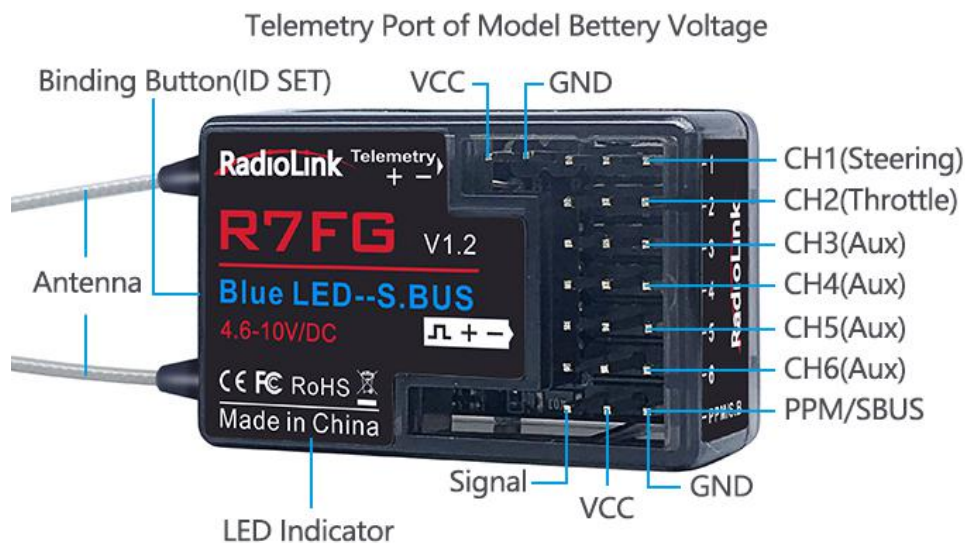
1.2.1 R7FG Specification

- Size: 35*20*13mm（1.05"*0.6"*0.39"）
- Weight: 9.5g(0.34oz)
- Channel: 7CH
- Antenna Length: 210mm(8.27")
- Operating Current: 30mA
- Operating Voltage: 4.6-10V

1.2.2 Receiver Installation and Binding

Binding

The transmitter and R7FG receiver in standard pack have been paired by factory setting default, there is no need to rebind. Switch on the transmitter and receiver without any additional operations, when the signal

tower displayed on the transmitter screen, binding is complete.

If you purchase a new R7FG receiver, binding needs to be done before using, otherwise the receiver won't work. Before using, binding transmitter to receiver on aircraft is a must. Every transmitter has a unique ID code, when binding is finished, ID code will be stored in the receiver, and no need to rebind. Binding steps is as follow:

1.Put the transmitter and the receiver close to each other (about 50 centimeters).

2.Switch on the transmitter first, then power on the receiver.

3. There is a black binding button(ID SET) on the side of receiver. Press the button for more than 1 second and release, the led will flash quickly, meaning binding process is ongoing.

4. When the led stops flashing and is always on, binding is complete and there will be a signal tower shown on top of the LCD screen of the transmitter. If not succeed, the led will keep flashing slowly to notify, repeat the above steps.

Note NO gyro by default as factory setting. Since integrated gyro in R7FG will self-check, it is very important to remain R7FG still when powering it on. GREEN LED (always on) indicates normal working mode while GREEN+RED LEDs (always on) indicate gyro working mode. When RED is off means NO gyro. If binding is not successful, the green led will keep flashing to notify.

Note of receiver usage

1. Keep the two antennas at a 90-degree angle (as shown on right):

2. Big models may contain metal parts that influence signal emission. In this case, antennas should be positioned at both sides of the model to ensure the best signal status in all circumstances.

3. Antennas should be kept away from metal conductor and carbon fiber at least half inch away and no over bending.

4. Keep antennas away from motor, ESC or other possible interference sources.

5. Sponge or foam material is advised to use to prevent vibration when installing receiver.

6. Receiver contains some electronic components of high-precision. Be careful to avoid strong vibration and high temperature.

7. Special vibration-proof material for R/C like foam or rubber cloth is used to pack to protect receiver.

Keeping the receiver in a well sealed plastic bag can avoid humidity and dust, which would possibly make the receiver out of control.

When all the above steps are complete, please turn off the transmitter and re-power on to test if the receiver is correctly connected with it.
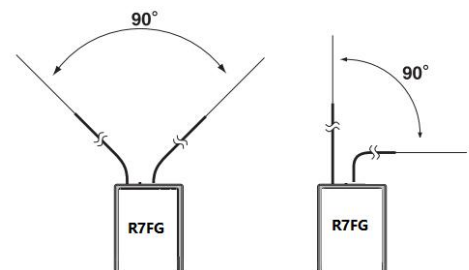
1.2.3 Working Mode

R7FG has four working modes:

Mode 1: PWM+PPM output (factory setting by default)

When the green indicator is on, Ch1 to Ch6 output standard PWM while Ch7 outputs PPM. Short press ID SET once to change Mode 1 to Mode 2 and three times within 1 second to Mode 4.

Mode 2: PWM+SBUS output

When the blue indicator is on, Ch1 to Ch6 output standard PWM while Ch7 outputs SBUS. Short press ID SET once to change Mode 2 to Mode 1 and three times within 1 second to Mode 3.

Mode 3: PWM+SBUS output+ Gyro

When both the red and the blue indicators are on (purple),   Ch1 to Ch6 output standard PWM while Ch7 outputs SBUS. Meanwhile, gyro function is also on, stabilizing the direction, keeping car from slipping and ensuring safer turning to preventing drifting from fast speed.

Short press ID SET once to change Mode 3 to Mode 4 and three times within 1 second to Mode 2.

Mode 4: PWM+PPM output+Gyro

When both the red and the green indicators are on (orange), Ch1 to Ch6 output standard PWM while Ch7 outputs PPM. Meanwhile, gyro function is also on, stabilizing the direction, keeping car from slipping and ensuring safer turning to preventing drifting from fast speed.

Short press ID SET once to change Mode 4 to Mode 3 and three times within 1 second to Mode 1.

R7FG Working Mode					
Working Mode	**Mode 1**	**Mode 2**	**Mode 3**	**Mode 4**	**Note**
Indicator Color	Green	Blue	Red&Blue (Purple)	Red&Green (Orange)	/
With Gyro	N	N	Y	Y	Multicolor light indicator on means gyro function on
Channel	Corresponding signal output in different channel				/
BAT+-	Return port of model battery voltage				/
1	PWM	PWM	PWM	PWM	Rudder
2	PWM	PWM	PWM	PWM	Throttle
3	PWM	PWM	PWM	PWM	Aux
4	PWM	PWM	PWM	PWM	Aux
5	PWM	PWM	PWM	PWM	Aux
6	PWM	PWM	PWM	PWM	Aux
PPM/S.B	PPM	SBUS	SBUS	PPM	Green is PPM, Blue is S-BUS，flight controller can be connected under SBUS/PPM mode and achieve different models control incl. Mecanum car/Robot/Engineering Off-road cars
Signal Switch	Short press ID set once to Mode 2	Short press ID set once to Mode 1	Short press ID set once to Mode 4	Short press ID set once to Mode 3	/
	Short press ID set 3 times quickly to Mode 4	Short press ID set 3 times quickly to Mode 3	Short press ID set 3 times quickly to Mode 2	Short press ID set 3 times quickly to Mode 1	/

1.2.4 Gyro Setup

A. Gyro Enabled

Factory setting is gyro function OFF by default.

Short press ID SET three times with interval less than 1 second, the RED indicator flashes three times. Red LED on/off indicates the gyro function is on/off.

Note:

For the first use, it is normal situation if the servo twitches with the receiver's moving after connecting without operating the transmitter, it means the gyro is on and automatically correct the servo directions. If you want turn off the gyro function, please follow the comparison table as above.

If the servo still twitches when the receiver is not moving, there are two   reasons:1.The servo was connected to the PPM/S.B channel of the receiver. Please change it to other channels, because ordinary servos only support PWM signals. 2. The gyro sensitivity is too large, please adjust it by the VR rotary switch.

B. Gyro Phase

When the gyro forward is enabled, try to turn the model car to check if the gyro is correcting the wheels. Normally, the wheels should turn right to correct when the car is turned left while the wheels should turn left to correct when the car is turned right. If the gyro phase is reversed, short press the binding button (ID SET) twice in 1 second. The Red indicator flashes twice means the gyro phase setting is complete.

C. Gyro Sensitivity Adjustment

Gyro sensitivity setting is CH3 by default (factory setting) and can be adjusted by the VR rotary switch. Percentage is displayed when sensitivity is adjusted while the bigger percentage means higher sensitivity. If the VR rotary switch/CH3 is set with other function, MODE can be changed to STD in GYRO setting of the menu to adjust gyro sensitivity with buttons Dec(-) and Inc(-).

1.2.5 Signal/RSSI Real-time Return

Power on the transmitter and the receiver and complete the binding, signal will be displayed on the main interface of transmitter. Short press EXIT button twice and enter the interface with returned information including RSSI value.
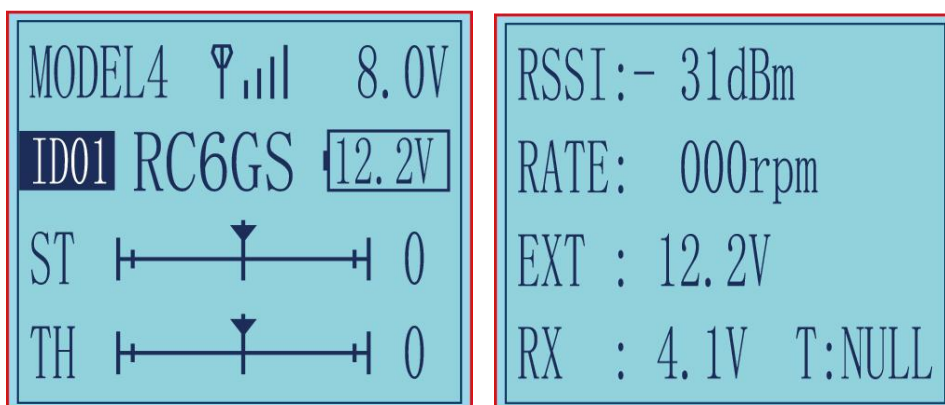
Warning can be set with a certain low RSSI value after testing by changing distance:

Press EXIT and ENTER simultaneously to enter MENU=>press Inc(+) to highlight "19. ALARM" =>Press ENTER to (dis)activate the warning and set the RSSI warning value.

Note: The 'RATE: RPM' and 'T: NULL' telemetry functions are still under development. If there are new developments, we will announce them to the RadioLink official website as soon as possible.

1.2.6 Telemetry of Model Battery and Receiver Voltage

Only when the main-board of RC4GS is produced after 2018-01-01 and updated with the latest version of V6.0.1 or above that can make binding with R7FG/R8F. The factory default firmware version of RC6GS V2 is **V6.1.0**. Besides the return of RSSI, receiver voltage, model battery voltage (maximum up to 6S lithium battery) can also be returned in real time. Users can personalize the warning value of low model battery voltage depending on the actual needs.

Press EXIT and ENTER simultaneously to enter MENU=>press Inc(+) to highlight "19. ALARM =>Press ENTER to set the model battery voltage warning value.

Normally we set the warning value with the single cell voltage as 3.7V. For example, if it is 3S lithium battery used in the model car, the warning value should be set as （3.7V*3S=）11.1V.

Model battery voltage telemetry can be easily achieved by connecting the male end of the battery wire to ESC while the female end to the battery and the wire with a JST head connects TELEMETRY (+-) of R7FG/R8F as below picture shown. No extra module is needed.
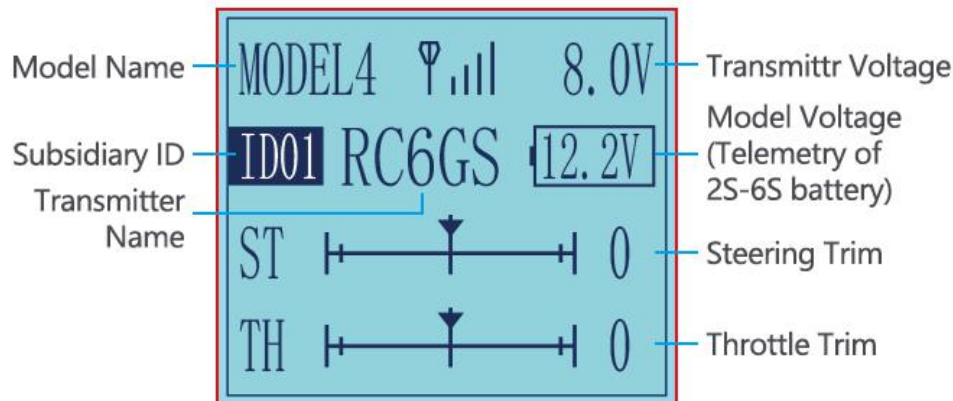
Once connect with success, the returned model voltage will be displayed on the interface of returned flight information.

Note Battery connected to TELEMETRY port is only for 2S-6S battery voltage telemetry, R7FG should be powered supplied by connecting to the CH2 pins on right.
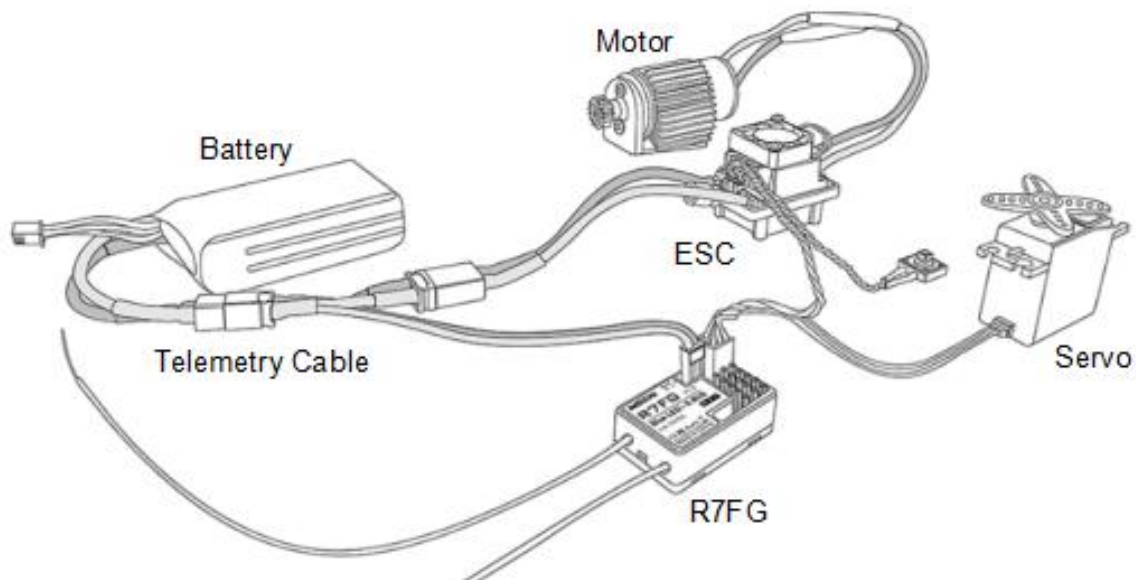
II. RC6GS V2 Functions

2.1 Display on LCD Screen

When you power on the transmitter, LCD screen shows Model Name, Transmitter Name, Transmitter Voltage, Steering Trim, Throttle Trim, Model Voltage, Subsidiary Model ID, Returned Signal.
Note The Subsidiary ID won't display until the function is activated in the menu ID SEED.
The telemetry function of model battery voltage can only be realized with R7FG/R8F.

Model Name
The system can store the data for 10 models, model name will show on the LCD when you power on the transmitter. Please make sure the model name is the right one that you want.
If the model name you chose is not corresponding with your model, the settings should be wrong.

Transmitter Voltage
In addition to the model, LCD can show the voltage of battery. When the voltage is lower than 4.6V, it would start the low-voltage alarm, it would send out "DDD…" sounds, till the transmitter is power-off. When you hear the low-voltage alert, you have no more than 4 minutes for controlling your model, please safely stop your model before the uncontrolled situation. Please make sure the battery voltage is higher than this voltage data while radio controlling.

Transmitter function menu setting
When you want to browse or change a setting of transmitter, you should go into function menu setting mode. Under function menu setting mode, you can set up Language "LANGUAGE" , Model Select "MODEL", End Point Adjust "EPA", Steering Exponential "STEXP", Steering Speed "STSPD", Throttle Exponential "THEXP", Throttle Speed "THSPD", A.B.S. Function "A.B.S", Throttle Acceleration "ACCEL", Idle-Up "IDLUP", Sub-trim "SUB-TRIM", Channel Reverse "REVERSE", Steering/Throttle Dual Rate "D/R", Brake Side Adjustment "ATL", Programmable Mixes "PMIX01/02", Auxiliary Channel 3, 4, 5 and 6 "AUX-CH"，Model name "NAME", Low Voltage "ALARM". Gyro Sensitivity"GYRO", Fail Safe"F/S", Subsidiary ID"ID SEED", Factory Reset "RESET".

As the factory default firmware version of RC6GS V2 is V6.1.0, below menu introduction is based on this firmware version. Menus maybe various if the firmware version is lower. The latest firmware can be downloaded from www.radiolink.com .

2.2 Language "LANGUAGE"

Both English and Chinese version menu are available for which is convenient for Chinese and English-speaking players to personalize function menus.

(1) Access the function menu (By pressing "Exit" and "Enter" buttons simultaneously and holding them down for one second), the Language select function will be chosen.

(2) Press "Enter" button to get into "LANGUAGE" function interface.

(3) Use"Dec(-)"or "Inc(+)"key to select "中文"or "English", the selected language will be with black shading effect.

(4) Press "Enter" button, the desired language is selected, and return to the initial screen automatically.

Numbers at the bottom means the current firmware version. Eg. V6.1.0 in above picture.

2.3 Model Select "MODEL"

RC6GS V2 can store model memories for ten models. Use this function to call a new model.

(1) Access the function menu (By pressing "Exit" and"Enter" buttons simultaneously and holding them down for one second), press "Enter" key once, the Model select function will be chosen.

(2) Press "Enter" button, the current active model will be blinking.

(3) To activate a different model by pressing "Dec(-)" or "Inc(+)" button until the desired model blinks.

(4) Press "Enter" button, the selected model stops blinking, now the model has been selected.

(5) Return to the initial screen by pressing "Exit" button twice.
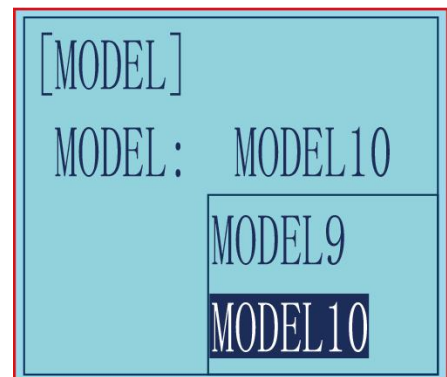
2.4 End Point Adjust "EPA"

Use EPA when performing left and right steering angle adjustments, throttle high side/brake side operation amount adjustment, and channel 3 servo up side/down side operation amount adjustment during linkage.

Correct the maximum steering angle and left and right steering angles when there is a difference in the turning radius due to the characteristics, etc. of the vehicle.

Setting item (channel and direction)

Steering EPA	Throttle EPA
ST:0%~120%(left/ right)	TH:0%~120%(forward/brake)
Initial value:100%	Initial value : 100%

Aux Servo EPA	Aux Servo EPA
CH3:0%~120%(left/ right)	CH4:0%~120%(left/ right)
Initial value: 100%	Initial value: 100%
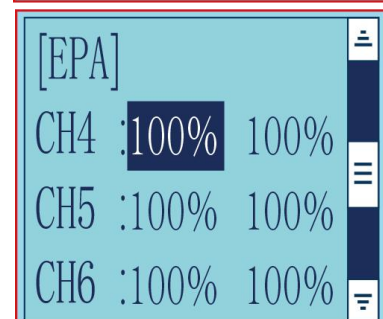
Aux Servo EPA   Aux Servo EPA

CH5:0%~120%(left/ right)   CH6:0%~120%(left/ right)

Initial value: 100%   Initial value: 100%

End point adjustment

(1) Access the function menu (By pressing "Exit" and "Enter" buttons simultaneously and holding them down for one second),press "Inc(+)" button twice to chose EAP function.

(2) Press "Enter" button to get into EPA function interface, use "Dec(-)" or "Inc(+)" button to select the desired setting item , press "Enter" key, the initial value of your selected setting item will blink, then you can press "Dec(-)" or "Inc(+)" button to adjust the value of your selected setting item.

(Note: In the interface of adjusting the value, return to the initial value "100%" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

(3) Press "Enter" button, the adjusted value of your selected setting item stops blinking, now the value of your selected setting item has been set.

(4) Return to the initial screen by pressing "Exit" button twice.
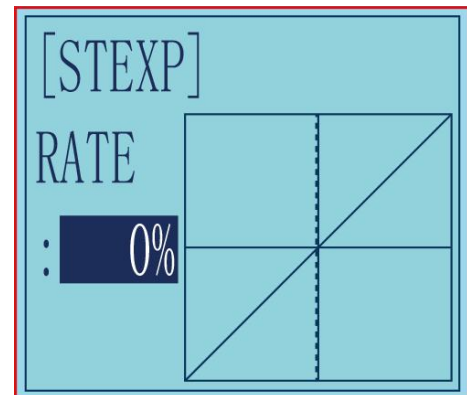
2.5 Steering Exponential "STEXP"

This function is used to change the sensitivity of the steering servo around the neutral and both ends position. It has no effect on the maximum servo travel.

Adjust the sensitivity of direction wheel both in neutral position and ends.

Setup Item

RATE: Steering EXP rate

Adjustment range

-100%~0%~+100%

Initial value: 0%

0%~-100%: Sensitivity around neutral position is low, getting higher when approaching ends.

0%: Sensitivity around the neutral and ends position is equal

0%~+100%: Sensitivity around neutral position is high, getting lower when approaching ends

Steering operation curve adjustment

(1) Access the function menu (By pressing "Exit" and "Enter "buttons simultaneously and holding them down for one second), press "Inc(+)" button three times to chose EAP function.

(2) Press "Enter" button to get into STEXP function interface, press "Enter"key and the initial value of the rate will blink, then you can press "Dec(-) "or "Inc(+)"button to adjust the value and the curve of the rate shown in the figure will change correspondingly.

(Note: In the interface of adjusting the value, return to the initial value "0%" by pressing "Dec(-)" and"Inc(+)" buttons simultaneously for about 1 second.)

(3) Press "Enter" button, the adjusted value of the rate stops blinking, now the value of the rate has been set.

(4) Return to the initial screen by pressing"Exit" button twice.

Note: the Vertical cursor shown in the figure moves in step with steering wheel operation.

2.6 Steering Speed "STSPD"

Quick steering operation will cause momentary under steering, loss of speed, or spinning. This function is effective in such cases.
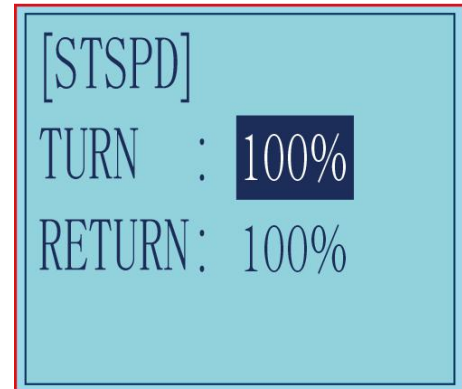
Setup item
TURN: turn direction
RETURN: return back to the original direction
Adjustment range
0%~100% (each direction)
At 100%, there is no delay

```
[STSPD]
TURN  : 100%
RETURN: 100%
```

Steering servo delay

(1) Access the function menu (By pressing "Exit" and "Enter" buttons simultaneously and holding them down for one second), press "Inc(+)" button four times to chose STSPD function.

(2) Press"Enter" button to get into STSPD function interface, press "Dec(-)" or"Inc(+)" button to select setup item, then press "Enter" key and the initial value of selected setup item will blink.

(3) Use"Dec(-)" or "Inc(+)" button to adjust the value of the selected setup item.

(Note : In the interface of adjusting the value, return to the initial value "100%" by pressing"Dec(-)" and"Inc(+)" buttons simultaneously for about 1 second.)

(4) Press "Enter"button, the adjusted value of the selected setup item stops blinking, now the value of the selected setup item has been set.

(5) Return to the initial screen by pressing "Exit" button twice.

2.7 Throttle Exponential "THEXP"

This function makes the throttle high side and brake side direction servo operation quicker or milder. It has no effect on the servo maximum operation amount. For the high side, selection from among three kinds of curves (CRV/VTR/EXP) is also possible.

The curve can be divided into: Five dots throttle curve adjustment, Single point adjustment, Exponential curve adjustment, Braking index curve adjustment. To elevation point, we can select(Exponential curve/Single point curve/Five points curve).

Curve point adjustment(select five points 1-5)

(1) Press"Enter" button,The curve point value start flashing,then press"Dec(-)"and"Inc(+)" button to adjust the starting value.

(2) Press "Enter" button ,starting value stop flashing,adjustment is completed.

(3) Press "Exit" button for two times,back to the initial interface.

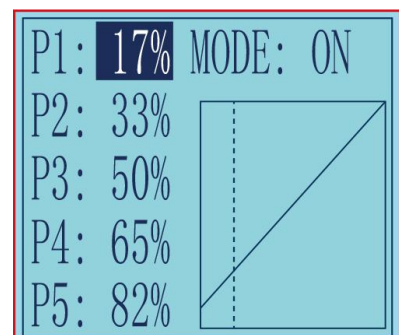**Throttle curve adjustment**
Adjustment method for CRV curve

**Setup
Items**

Mode: ON/OFF
RATE: 0%~100%

```
P1: 17% MODE: ON
P2: 33%
P3: 50%
P4: 65%
P5: 82%
```

1. Enter the function menu and use" Dec(-) " or " Inc(+) "button to access THEXP function. Select "FWD-CRV" function.

2. Press "Dec(-)" or "Inc(+)" button to select curve points 1~5
for curve point adjustment that you want, from the graph you
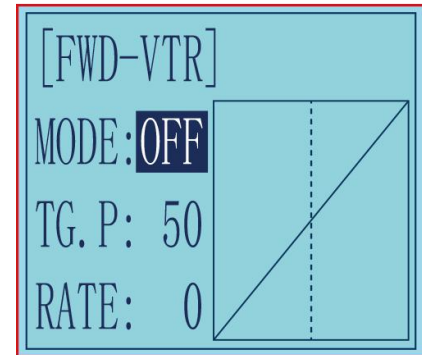will clearly see the changes you have made.

Adjustment method for VTR curve
Adjustment range
TG.P: 20-80
RATE: -100~0~+100
1.Enter the function menu and use "Dec(-)" or"Inc(+)"button
to access THEXP function. Select"FWD-VTR" function.
2.Press "Dec(-)" or "Inc(+)" button to select RATE for forward
side adjustment that you want, when the "MODE" value is "OFF" the VTR will not work, only the "MODE"
value set to "ON" the VTR function is available. From the graph you will clearly see the changes
you have made on TG.P and RATE.

Adjustment method for EXP curve
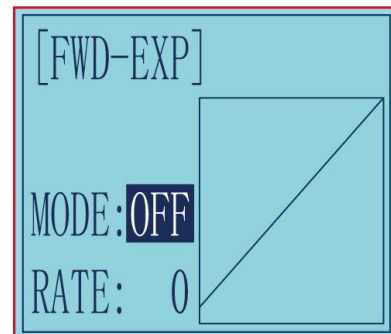**Setup items**
MODE: EXP turn on or turn off
RATE: EXP rate

Adjustment range
MODEL: OFF/ON
RATE: -100 ~ 0 ~ +100

1. Enter the function menu and use "Dec(-)" or "Inc(+)" button
to access THEXP function, then select the "FWD-EXP" function.
2. Press "Dec(-)" or "Inc(+)" button to select RATE for adjustment, set the most comfortable value you want.
From the graph you will clearly see the changes you have made on the EXP RATE, also move the trigger to
check the throttle status.

Adjustment method for BRK-EXP curve
Setup Items
RATE: BRK-EXP rate
Adjustment range
RATE: -100 ~ 0 ~ +100
0~-100: flat braking
0: uniform braking
0~+100: sensitive braking
Brake side adjustment (select BRK)
(1) Press "Enter" key, the current BRK value will blink, use "Inc(+)" button to adjust the + side when you want
to quicker the rise and use"Dec(-)" button to adjust the - side when you want to make the rise milder.
(Note: In the interface of adjusting the value, return to the initial value "0" by pressing "Dec(-)" and "Inc(+)"
buttons simultaneously for about 1 second.)
(2) Press "Enter" button, the adjusted BRK value stops blinking, now the BRK value has been set.
(3) When ending setting, return to the initial screen by pressing "Exit" button twice.

11
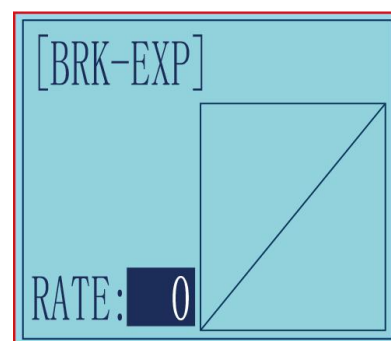
2.8 Throttle Speed "THSPD"

Throttle servo delay

Sudden trigger operation on a slippery road only causes the wheels to spin and the vehicle cannot accelerate smoothly. Setting the throttle speed function reduces wasteful battery consumption while at the same time permitting smooth, enjoyable operation.

Operation

Throttle servo(amp) operation is delayed so that the drive wheels will not spin even if the throttle trigger is operated more than necessary. This delay function is not performed when the throttle trigger is returned and at brake operation.

OFF: Speed1 or speed2 can be selected.

OFF means shut down the throttle speed function
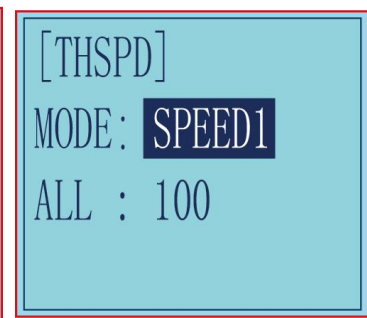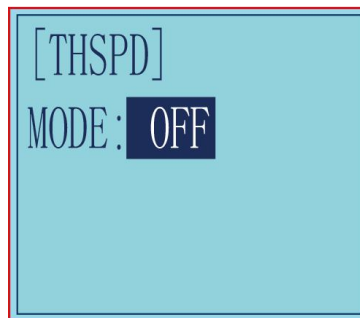
Adjustment method for SPEED1

Setup items

MODE: Speed type selection

ALL: Speed adjustment

Adjustment range

0~100 (each direction)

At 100, there is no delay

```
[THSPD]
MODE: OFF
```

```
[THSPD]
MODE: SPEED1
ALL : 100
```

(1) Enter the function menu and use "Dec(-)"or"Inc(+) " button to access THSPD function.

(2) Press "Enter" button to get into THSPD function interface.

(3) If initial MODE setup item is SPEED1, {if initial MODE setup item is SPEED2 or OFF, you need to select SPEED1 by pressing"Dec(-)" or "Inc(+)"button to select MODE setup item , then press "Enter" key, SPEED2 or OFF will blink, press "Dec(-)" or "Inc(+)" button, when the blinking SPEED 2 or OFF change to blinking SPEED 1, press "Enter" key, SPEED1 will stop blink, now SPEED1 is selected}, press "Dec(-)" or "Inc(+)" button to select ALL setup item, then press"Enter" key, the initial value will blink, use"Dec(-)"or"Inc(+)" button to adjust the delay of the entire throttle forward side range.

(Note: In the interface of adjusting the value, return to the initial value "100" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

(4) When ending setting, return to the initial screen by pressing "Exit" button twice.

Adjustment method for SPEED2

Setup items

MODE: Speed type selection

LOW: Low side range speed adjustment

HIGH: High side range speed adjustment

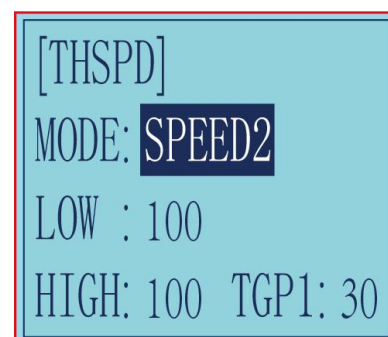TGP1: Low and medium speed switching point

Adjustment range

LOW: 0~100

HIGH: 0~100

At 100, there is no delay

TGP1: 0~100

```
[THSPD]
MODE: SPEED2
LOW : 100
HIGH: 100  TGP1: 30
```

(1) Enter the function menu and use "Dec(-)"or "Inc(+) " button to access THSPD function.

(2) Press "Enter" button to get into THSPD function interface.

(3) If initial MODE setup item is SPEED 2, {if initial MODE setup item is SPEED 1, you need to select SPEED2 by pressing "Dec(-)" or "Inc(+)" button to select MODE setup item, then press "Enter" key, SPEED1 or OFF will blink, press "Dec(-)" or "Inc(+)" button, when the blinking SPEED1 or OFF change to blinking SPEED2, press "Enter" key, SPEED2 will stop blinking, now SPEED2 is selected}, press "Dec(-)" or "Inc(+)" button to select "LOW"　or　"HIGH"　delay adjustment or"TGP1" speed switching point adjustment.

(4) Press "Enter" key to confirm "LOW"　or　"HIGH"　or "TGP1" setup item, and the value of your selected setup item will blink. Use "Dec(-)" or "Inc(+)" button to adjust the value.

(Note: In the interface of adjusting the value, return to the initial value (the initial value of LOW and HIGH is "100", the initial value of TGP1 is "30") by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now your selected value has been set.

(5) When ending setting, return to the initial screen by pressing "Exit" button twice.

2.9 A.B.S. Function "A.B.S"

Pulse brake

When the brakes are applied while cornering with a 4 Wheel Drive or other type of vehicle, under-steer may occur. The generation of under-steer can be eliminated and corners can be smoothly cleared by using this function.

Operation

- When the brakes are applied, the throttle servo will pulse intermittently. This will have the same effect as pumping the brakes in a full size car.

- The brake return amount, pulse cycle, and brake duty can be adjusted.

- The region over which the ABS is effective can be set ac-cording to the steering operation. (Mixing function)

Setup items

ABP: Brake return amount

DLY: Delay amount

CYC: Cycle speed

TGP: Operation point

DTY: Cycle duty ratio

STM: Steering mixing


```
[A.B.S]  CYC:   5
MODE:OFF DTY:  30
ABP : 50 DTY:   0
DLY :  0 STM:OFF
```
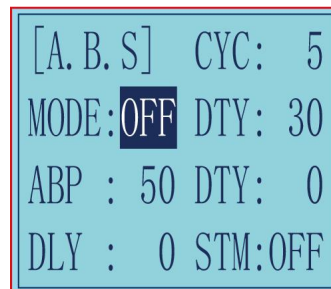
-ABP(Amount of brake return): Sets the rate at which the servo returns versus trigger operation for brake release. When set to 0, the ABS function is not

Performed. When set to 50, the servo returns 50% (1/2)of the trigger operation amount and when set to 100, the servo returns to the neutral position.

-DLY(Delay): Sets the delay from brake operation to ABS operation. When set to 0, the ABS function is activated without any delay. At 50%, the ABS function is activated after a delay of approximately 0.7 second and at 100, the ABS function is activated after a delay of approximately 1.4 seconds.

-CYC(Pulse speed): Sets the pulse speed (cycle). The smaller the set value, the faster the pulse cycle.

- TGP(Trigger point): Sets the trigger point at which the ABS function begins to operate at brake operation.

-DTY(Cycle duty ratio): Sets the proportion of the time the brakes are applied and the time the brakes are released by pulse operation. The ratio can be set to +3 ~ 0~-3 in 7steps.

- STM(Steering mixing): Sets ABS operation ON/OFF according to the steering operation range.

A.B.S function adjustment

Enter the function menu and use "Dec(-)" or "Inc(+)" button to access A.B.S function, then press"Enter" button to get into A.B.S function interface.

(1) Brake return amount adjustment

Select the setting item "ABP" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "ABP" will blink. Use "Dec(-)"or"Inc(+)"button to adjust the return amount.

(Note: In the interface of adjusting the value, return to the initial value "50" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

"0": No return

"50": Return to the 50% position of the brake operation amount

"100": Return to the neutral position.

Brake return amount (ABP)

0 ~ 50 ~ 100

Initial value: 50

- Brake return amount (ABP) is influenced by the "EXP" rate on the brake side.

(2) Delay amount setup

Select the setting item "DLY" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "DLY" will blink. Use "Dec(-)"or "Inc(+)"button to adjust the delay amount.

(Note: In the interface of adjusting the value, return to the initial value "0" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

"0": A.B.S. function performed without any delay

"50": A.B.S function performed after an approximate 0.7 sec delay

"100": A.B.S. function performed after an approximate 1.7 secs delay

Delay amount (DLY)

0 ~ 100

Initial value; 0

(3) Pulse speed adjustment

Select setting item "CYC" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "CYC" will blink. Use "Dec(-)" or "Inc(+)"button to adjust the pulse speed (cycle).

(Note: In the interface of adjusting the value, return to the initial value "5" by pressing"Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

- The smaller the set value, the faster the pulse speed.

Cycle speed (CYC)

0 ~ 30

Initial value: 5

(4) Operation point setup

Select setting item "TGP" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "TGP" will blink. Use "Dec(-)" or "Inc(+)"button to adjust the operation point.

(Note: In the interface of adjusting the value, return to the initial value "30" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

- Sets the throttle trigger position at which the A.B.S. function is performed. The number is the 100 display with the full brake position made 100%.

Operation point (TGP)

0 ~ 100

Initial value: 30

(5) Cycle duty ratio setup

Select setting item "DTY" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "DTY" will blink. Use "Dec(-)" or "Inc(+)" button to adjust the duty ratio.

(Note: In the interface of adjusting the value, return to the initial value "0" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

"-3": Brake application time becomes shortest. (Brakes lock with difficulty)

"+3": Brake application time becomes longest (Brakes lock easily)

(Remark) For low grip set at the - side and for high grip set at the + side.

Duty ratio (DTY)

-3 ~ 0 ~ +3

Initial value: 0

(6) Steering mixing setup

Select setting item "STM" by pressing "Dec(-)" or "Inc(+)" button, then press "Enter" key and the initial value of "STM" will blink. Use "Dec(-)" or "Inc(+)" button to adjust the steering mixing range.

(Note: In the interface of adjusting the value, return to the initial value "OFF" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

-Sets the range within which the A.B.S. function is performed relative to steering wheel operation.
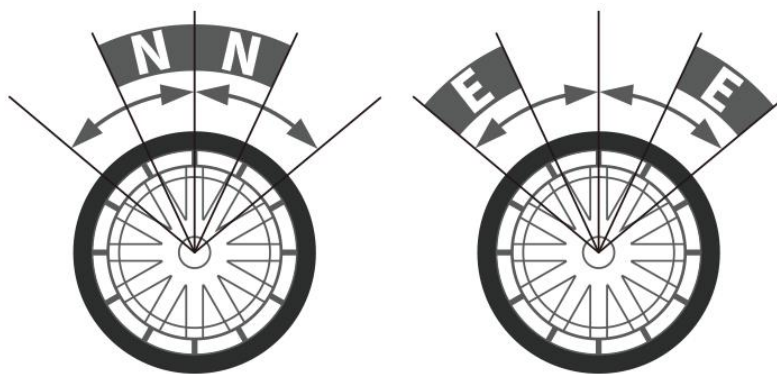
Steering operation

Steering mixing (STM)

OFF, N10 ~ N100, E10 ~ E100

Initial value: OFF

When steering mixing is set and steering operation enters the set range, "*" is displayed in front of the number.

When mixing is OFF, the A.B.S function can operate over the entire steering range.

When ending setting, return to the initial screen by pressing "Exit" button twice.
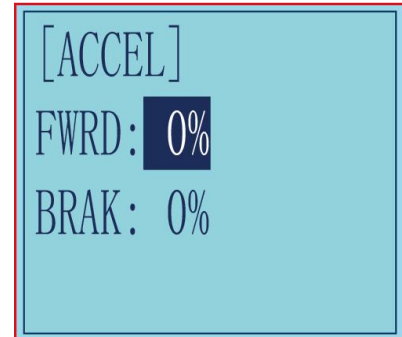
2.10 Throttle Acceleration "ACCEL"

Function which adjusts the movement characteristic from the throttle neutral position.

The servo will jump to the input position at its maximum possible speed. Unlike exponential, which adjusts the whole throttle movement into a curve, throttle acceleration simply "jumps" away from neutral and then leaves the remaining response linear.

```
[ACCEL]
FWRD: 0%
BRAK: 0%
```

Setup item
FWRD: Forward side acceleration amount
BRAK: Brake side acceleration amount

Throttle acceleration adjustment
Enter the function menu and use "Dec(-)" or "Inc(+)" button to access ACCEL function, then press "Enter" button to get into ACCEL function interface.
(1) Forward acceleration amount adjustment
Press "Dec(-)" or "Inc(+)" button to select "FWRD", press"Enter"key to confirm and the initial value of "FWRD" will blink, then use "Dec(-)"or"Inc(+)" button adjust the acceleration amount.
(Note: In the interface of adjusting the value, return to the initial value "0%" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)
Press"Enter"button, the adjusted value stops blinking, now the value has been set.

"0%": No acceleration
"100%": Maximum acceleration(Approximately1/2of the forward side steering angle)
Forward acceleration amount(FWRD)
0%~100%
Initial value: 0%

(2) Brake side acceleration amount adjustment
Press "Dec(-)" or "Inc(+)" button to select " BRAK ", press"Enter"key to confirm and
the initial value of "BRAK" will blink, then use"Dec(-)"or"Inc(+)"button adjust the acceleration amount.
(Note: In the interface of adjusting the value, return to the initial value"0%" by pressing
"Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)
Press "Enter" button, the adjusted value stops blinking, now the value has been set.
"0%": No acceleration
"100%": Maximum acceleration (Brake side maximum steering angle)
Brake side acceleration amount(BRAK)
0%~100%
Initial value: 0%
When ending setting, return to the initial screen by pressing "Exit" button twice.
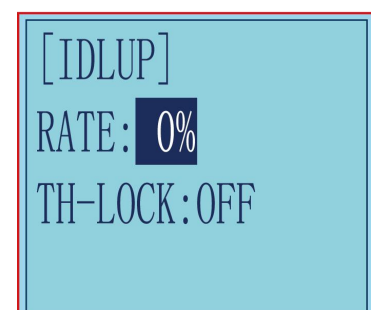
2.11 Idle-Up "IDLUP"

2.11.1 Idle up at engine start

```
[IDLUP]
RATE: 0%
TH-LOCK:OFF
```

Use this function to improve the starting characteristics of the engine by raising the idling speed when starting the engine of a gas powered car.
Idle-Up rate (RATE)
-50% ~ -1%, 0%, +1% ~ +50%
Initial value: 0%

"-": Brake side

"+": Forward side

Idle-Up "IDLUP"

(1) Enter the function menu and use "Dec(-)" or"Inc(+) " button to access IDLUP function.

(2) Press "Enter" button to get into IDLUP function interface.

(3) Press "Enter" key, and the initial value of RATE will blink. Use" Dec(-) " or "Inc(+)" button to adjust the value.

(Note: In the interface of adjusting the value, return to the initial value "0%" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter"button, the adjusted value stops blinking, now the value has been set.

(4) When ending setting, return to the initial screen by pressing "Exit"button twice.

2.11.2 TH-LOCK

In addition to adjusting the throttle speed when the throttle trigger is in the neutral position, the Idle up at engine start function can also set the throttle lock, select the throttle value that needs to be locked, and the setting range is -100% to +100%. After the throttle is locked, no matter the current No matter where the throttle trigger is, the throttle output will jump to the set value.

This function is controlled by the trigger of the SWA jog switch, press to lock, press again to unlock, the control switch defaults to SWA and cannot be modified.

The specific setting method is as follows:

1. Enter the function menu and use the "Dec(-)" or "Inc(+)" key to select the "TH-LOCK" setting item.

2. Press the "Enter" button to enter the "TH-LOCK" function interface.

3. Move the cursor to "Throttle Lock", press the "Enter" key again, "Throttle Lock" will start to flash, and then use the "Dec(-)" or "Inc(+)" key to adjust the amount of throttle lock.

Press the "Enter" key, the adjusted value stops flashing, and the setting is complete.

3.After setting, press the "Exit" key to return to the initial interface, and press the SWA switch to switch between locking and unlocking the throttle.

https://www.youtube.com/watch?v=vCEHpUoTLzE
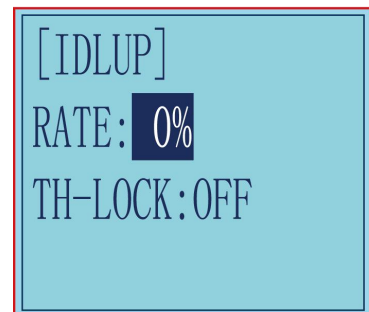
2.12 Sub-trim "SUB-TRIM"

Servo center position adjustment

Use this function to adjust the neutral position of the steering, throttle and channel 3 servos.
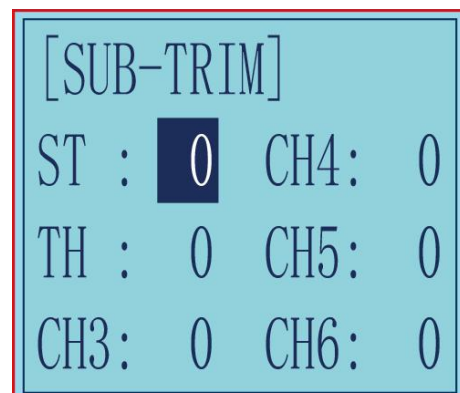

Channel

ST: Steering(CH1)

TH: Throttle(CH2)

CH3: Channel3(VR)

CH4: Channel4(SWA)

CH5: Channel5(SWB)

CH6: Channel6(SWC)

Sub-trim

ST: -100~0~+100

TH: -100~0~+100

CH3: -100~0~+100

CH4: -100~0~+100

CH5: -100~0~+100

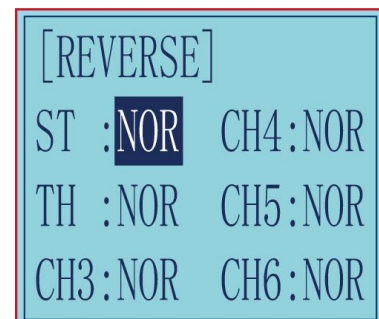CH6: -100~0~+100

Initial value : 0

(1) Enter the function menu and use "Dec(-)"or "Inc(+)" button to access SUBTR function.

(2) Press "Enter" button to get into SUBTR function interface.

(3) Use "Dec(-)" or "Inc(+)" button to select ST channel, press "Enter"key, and the initial value of ST will blink. Use "Dec(-)" or "Inc(+)" button to adjust the center.

(Note: In the interface of adjusting the value, return to the initial value "0" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

(4) Press "Enter" key, the adjusted value stops blinking, now the center of ST has been adjusted.

(5) TH channel and CH3 can be set similarly.

(6) When ending setting, return to the initial screen by pressing "Exit" button twice.

2.13 Channel Reverse "REVERSE"

Servo operation reversing

This function reverses the direction of operation of the servos related to transmitter steering, throttle, channel 3, channel 4, channel 5 and channel 6 operation.

Channel

ST: Steering(CH1)

TH: Throttle(CH2)

CH3:

Channel3(VR)

CH4: Channel4(SWA)

CH5: Channel5(SWB)

CH6: Channel6(SWC)

(1) Enter the function menu and use "Dec(-)" or"Inc(+)" button to access REV function.

(2) Press "Enter" button to get into REV function interface.

(3) Use "Dec(-)" or "Inc(+)" button to select ST channel, press "Enter"key, and the "NOR" will blink.

(4) Press "Enter" key, the "NOR" stops blinking, Use "Dec(-)"or"Inc(+)"button to reverse the ST servo operation direction.

(5) TH channel, CH3, CH4, CH5 and CH6 can be set similarly.

(6) When ending setting, return to the initial screen by pressing "Exit" button twice.

2.14 Steering/Throttle Dual Rate "D/R"

Dual rate

The steering left and right servo travels are adjusted simultaneously. When you want to increase the servo travel, adjust the + side. When you want to decrease the servo travel, adjust the - side.

Setup Item
Steering D/R
Throttle D/R
RATE
Steering D/R rate (RATE)
0%~100%
Initial value: 100%
Throttle D/R rate (Throttle D/R RATE)
0%~100%
Initial value: 100%

(1) Enter the function menu and use "Dec(-)" or "Inc(+)" button to access D/R function.
(2) Press"Enter" button to get into D/R function interface.
(3) Use "Dec(-)" or "Inc(+)" button to select Steering D/R RATE, press "Enter"key, and the initial value of Steering D/R RATE will blink. Use"Dec(-)"or "Inc(+)" button to make adjustments.
(Note: In the interface of adjusting the value, return to the initial value"100%" by pressing"Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)
(4) Press "Enter" key, the adjusted value stops blinking, now the steering D/R RATE has been set.
(5) Throttle D/R RATE can be set similarly.
(6) When ending setting,return to the initial screen by pressing "Exit" button twice.

2.15 Brake Side Adjustment "ATL"

Brake side adjustment
This function decreases the set value when the braking effect is strong and increases the set value when the braking effect is weak.
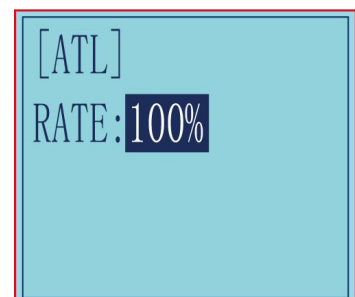

Setup Item
RATE: Brake amount
Brake amount (RATE)
0%~100%
Initial value: 100%

(1) Enter the function menu and use "Dec(-)" or "Inc(+)"button to access ATL function.
(2) Press "Enter" button to get into ATL function interface.
(3) Press "Enter" key, and the initial value of RATE will blink. Use "Dec(-)"or"Inc(+)" button to adjust the value.
(Note: In the interface of adjusting the value, return to the initial value "100%" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)
Press "Enter" button, the adjusted value stops blinking, now the value has been set.
(4) When ending setting, return to the initial screen by pressing"Exit" button twice.

2.16 Programmable Mixes "PMIX01/02"

Programmable mixes between arbitrary channels
These functions allow you to apply mixing between the steering, throttle, CH3, CH4, CH5 and CH6.

2.16.1 PMIX 01 Setup items

LEFT: Mixing rate (Left side)
RGHT: Mixing rate (Right side)
MST: Master channel
SLV: Slave channel

Programmable Mixes "PMIX"
MXMD:Mix mode
Enter the function menu and
use"Dec(-)"or "Inc(+)" button to access
PMIX function, then press "Enter" button to get into PMIX function interface.

(1) Master channel
Channel selection (MST)
ST, TH, CH3, CH4, CH5, CH6
Initial value: ST
Select setup item"MST" by pressing "Dec(-)" or"Inc(+)"button, press" Enter " button, the initial master channel will blink. Use" Dec(-)"or" Inc(+) " button to select the master channel you wish to adjust, press"Enter" button,the blinking master channel you selected will stop blinking.

(2) Slave channel
Channel selection (SLV)
ST, TH, CH3, CH4, CH5, CH6
Initial value: ST

Select setup item "SLV" by pressing "Dec(-)" or "Inc(+)" button, press "Enter" button, the initial slave channel will blink. Use "Dec(-)" or "Inc(+)"button to select the slave channel you wish to adjust, press "Enter" button, the blinking slave channel you selected will stop blinking.

(3) Left, forward or up side mixing amount adjustment
Mixing amount
-100~0~+100
Select the setting item "LEFT", "FWRD", or "UP"(These setup items are different depend on the master channel. ST: "LEFT"; TH: "FWRD"; CH3:"UP") by pressing "Dec(-)" or "Inc(+)" button. Press "Enter" key, the initial value of "LEFT", "FWRD", or "UP"   will blink, Use "Dec(-)" or "Inc(+)" button to adjust the left, forward, or up side mixing amount.
(Note: In the interface of adjusting the value, return to the initial value   "0"   by pressing"Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)
Press "Enter" key, the adjusted value stops blinking, the selected mixing amount has been adjusted.

(4) Right, brake or down side mixing amount adjustment
Mixing amount
-100~0~+100
Select the setting item "RGHT", "BRAK", or "DOWN"(These setup items are different depend on the master channel.ST:"RGHT"; TH:"BRAK";CH3:"DOWN") by pressing "Dec(-)" or "Inc(+)" button. Press"Enter"key,the initial value of "RGHT", "BRAK", or "DOWN" will blink, Use"Dec(-)"or"Inc(+)"button to adjust the right, brake, or down side mixing amount.

(Note: In the interface of adjusting the value, return to the initial value "0" by pressing "Dec(-)" and "Inc(+)" buttons simultaneously for about 1 second.)

Press "Enter" key, the adjusted value stops blinking, the selected mixing amount has been adjusted.

(5) Mixing mode setup

Mixing mode (MXMD)

OFF, MIX

Initial value: OFF

Select setup item"MXMD"by pressing"Dec(-)"or "Inc(+)" button, press "Enter " button, the initial mixing mode"OFF"will blink. Press"Dec(-)"or "Inc(+)"button to switch "OFF" to "MIX", press "Enter" button, the blinking "MIX" will stop blinking.

"OFF": Mixing proportional to master channel operation.

"MIX": Mixing by master channel another function considered.

(6) When ending setting, return to the initial screen by pressing "Exit" button twice.

2.16.2 PMIX02 setting is the same as the PMIX01.

Take a dual-engine model (eg. Tracked vehicle) as an setting example.

2.16.3 Working theory of tracked vehicles

1. RC Cars: One execute unite of radio controls a movement of a car (eg. Steering wheel to Ch1-Direction to turn left/right). Every R/C channel operation and every execute unite of car is ONE TO ONE.
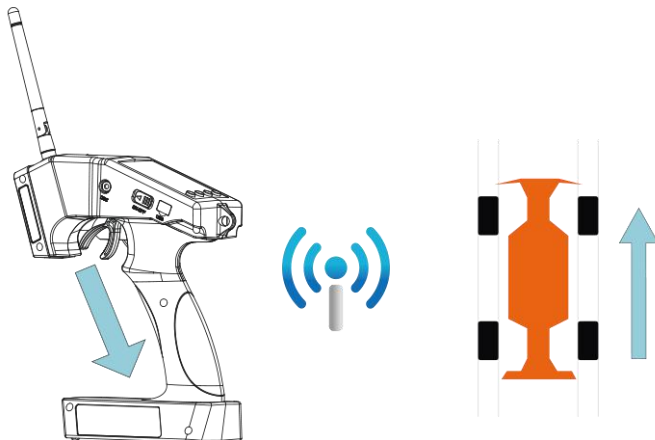
When pulling the trigger, the car moves forward

2. Dual-engine Models: Being dual-engine category, tracked vehicle has two motors and each track is driven by each motor.

3. Mix Control: The throttle (a function) on R/C monitors two motors (two execute unites) move

forward/backward simultaneously. That is, ONE TO TWO mix control. On the other hand, the turning of steering wheel makes one motor forward while the other backward at the same time to achieve direction turning. Same as ONE TO TWO mix control.

4. Dual Mix Control： As controlling dual-engine vehicles drive forward/backward and turn left/right, two mix controls at the same time are needed. RADIOLINK RC6GS V2 has two programmable mix controls.

2.16.4 Reverse Setup before Mix Control Setup

Before setting the mix controls, please check if the reverses working correctly by testing its wheel and throttle. Take steering wheel-- left track (Ch1 on receiver) and throttle--right track(Ch2 one receiver) as example.

1. Throttle Reverse： NOR-REV

Hold RC6GS V2 as the below pic. Normally, pull the throttle, the right track should be moving forward while push the throttle and the right track should be backward.
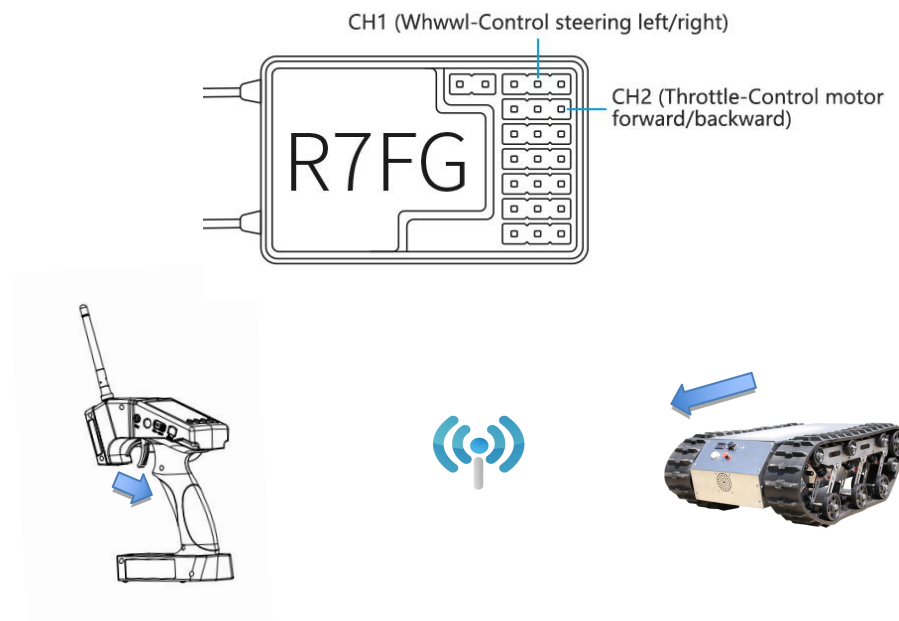
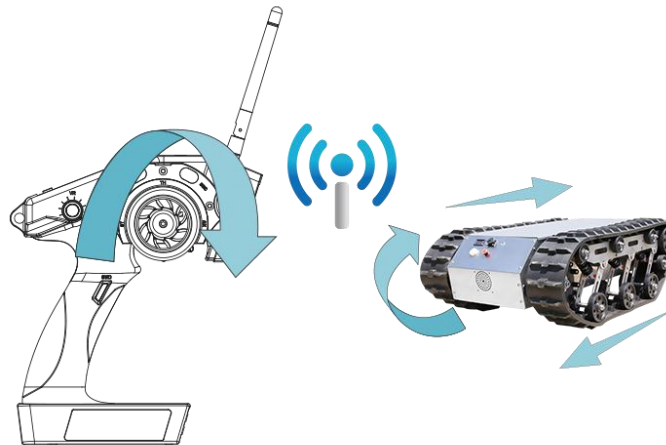Pull the throttle，right track moves forward，left track remains still

If pulling the throttle and the left track moves backward; Or pushing the throttle and the left track moves forward, meaning the initial throttle is reversed and needs to be set. Please refer to the "button operation"and get into below interface to complete the setup.
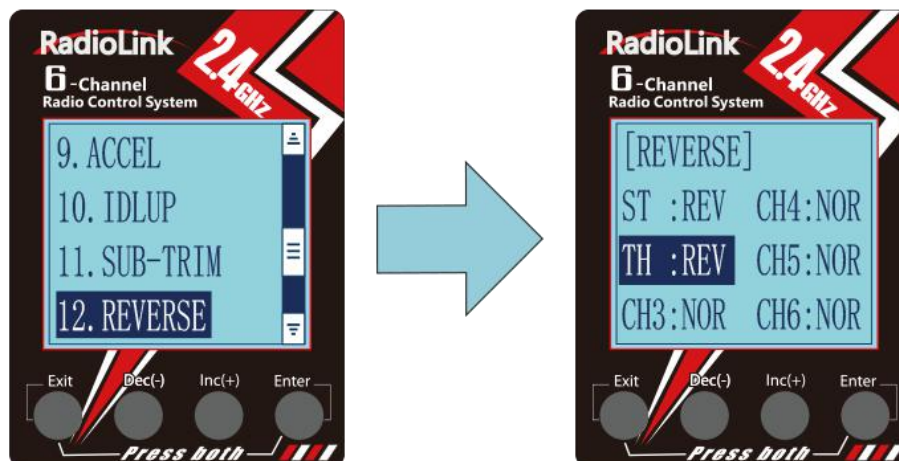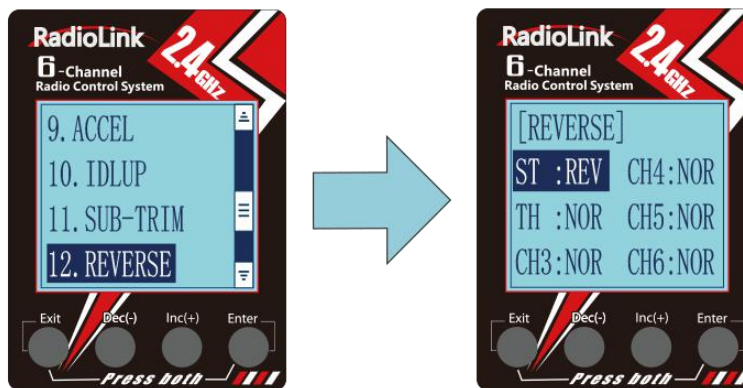
* If the throttle reverse is correct, skip this throttle reverse setup.

2. Steering Reverse：NOR/REV

Hold RC6GS V2 as the below pic. Normally, if turn the wheel right/clockwise, the left track should be moving forward while turn the wheel left/anticlockwise and the left track should be backward.

Turn the wheel clockwise, the left track moves forward，the right track remains still

If turning the wheel right and the right track moves backward; Or turning the wheel left and the right track moves forward, meaning the initial steering is reversed and needs to be set. Please refer to the "button operation"and get into below interface to complete the setup.

＊ If the steering reverse is correct, skip this steering reverse setup.

After setting the throttle/ steering reverse, then mix control can be set.


Mix Control Setup

1. Throttle mix steering：Tracked vehicles moving forward/backward

As tracked vehicles moving forward/backward is controlled by throttle, throttle leads steering in the mix control. That is, Master-Throttle, Slave-Steering.   Please refer to the "button operation"and get into below interface to complete the setup.

* Percentage value varies the speed;

 "+"means Master and Slave move to same direction at the same time
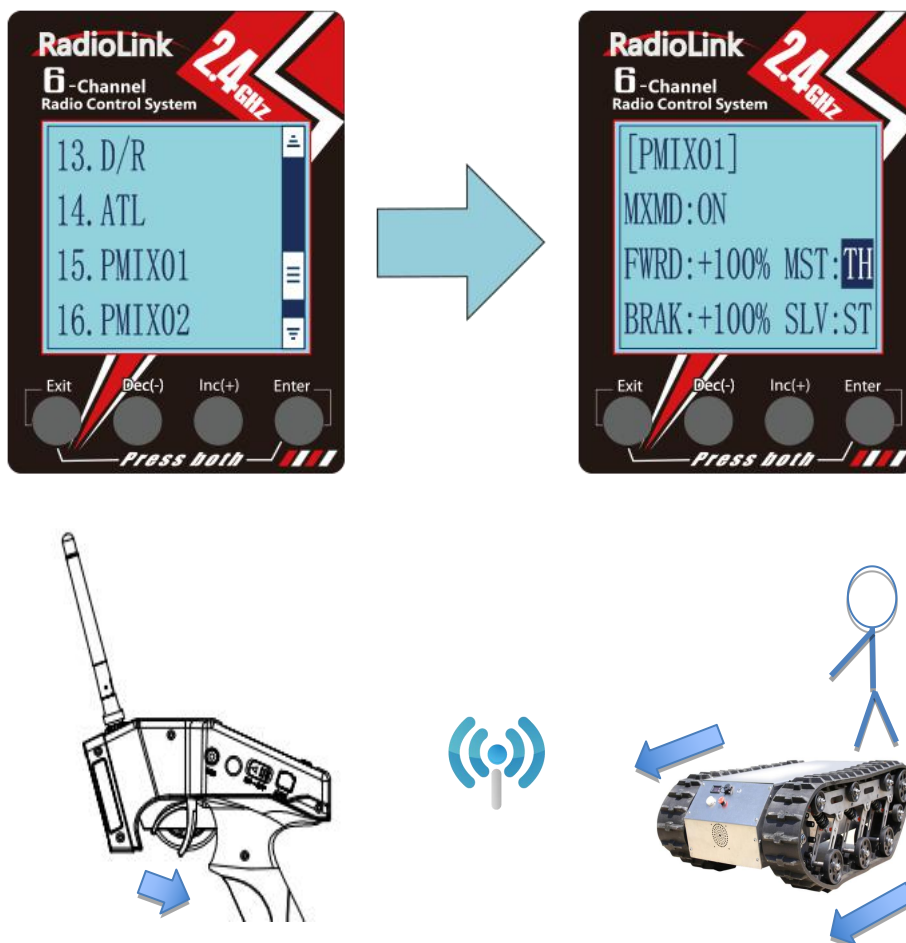
Throttle mix steering setup completed, both tracks moves forward
when pulling the throttle

2. Steering mix Throttle：Tracked vehicles turning left/right

As tracked vehicles turning left/right is controlled by steering, steering leads throttle in the mix control. That is, Master-Steering, Slave-Throttle. Please refer to the "button operation"and get into below interface to complete the setup.

* Percentage value varies the turning angle;

"-"means Master and Slave move to different directions at the same time
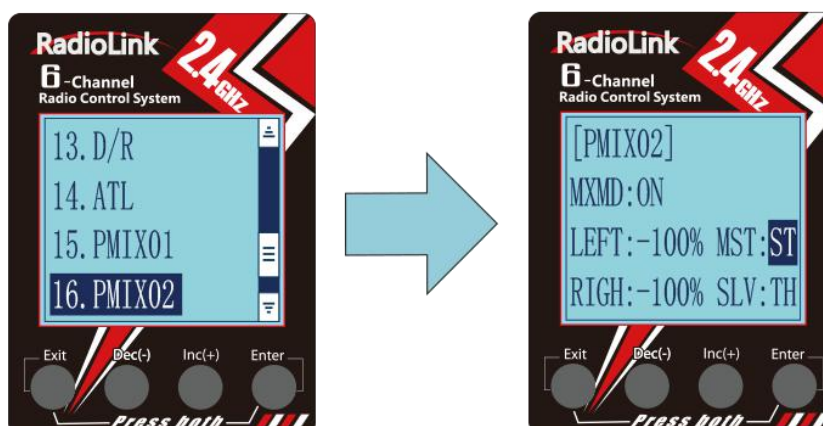
Steering mix throttle setup completed, left track moves forward while right backward when turning the wheel clockwise. The differential realizes the right turning of track vehicle

2.17 Auxiliary Channel "AUX-CH"

The channel 3 and channel 4 servo position can be set from the transmitter. When CH3 is assigned to the 3rd channel key, this setting is linked to the key. When CH3 and CH4 is not assigned to the 3rd channel key, it can be set with this screen.

You can also set the CH3, CH4, CH5 and CH6 as VR at the same time, or SW.

Channel 3 position (POSI)
SW(LOCK) or VR(RATE)
Channel 4 position (POSI)
SW(LOCK) or VR(RATE)
Channel 5 position (POSI)
SW(LOCK) or VR(RATE)
Channel 6 position (POSI)
SW(LOCK) or VR(RATE)
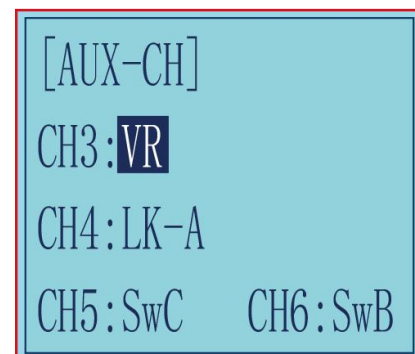
(1) Enter the function menu and use "Dec(-)" or "Inc(+)" button to access AUX function.

(2) Press "Enter" button to get into CH3, CH4, CH5 or CH6 function interface.

(3) Use "Dec(-)" or "Inc(+)" button to select Channel setup item.

Use "Dec(-)" or "Inc(+)" button to select POSI, press"Enter"key and the value will blink, use "Dec(-)" or "Inc(+)" button to select "VR" or "SW".

Press "Enter" button, the adjusted value stops blinking, now the value has been set.

2.18 Model Name "NAME"

RC6GS V2 stores model memories for ten models. Each model memory can be named separately according to user's requirement.

Factory default name: MODEL1

(1) Enter the function menu and use "Dec(-)" or "Inc(+)" button to access NAME function.

(2) Press "Enter" button to get into NAME function interface, the first character of current name will blink, and the blinking character can be reset. The common use characters appear at the bottom of the screen, use "Dec(-)" or "Inc(+)" button to choose the character you desired.Press"Enter" button again, the next character of current name will
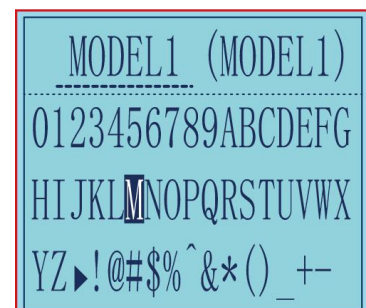
blink. Reset other characters of current name in same manner.

(3) After accomplishment of naming, all characters of current name will stop blinking, the new name will be stored automatically.

(4) When ending setting,return to the initial screen by pressing"Exit"button twice.(the new setting model name will appear on the initial screen)

2.19 ALARM(Safety alarm for low voltage and Signal strength)

When the voltage of the transmitter, receiver, vehicle battery, and RSSI signal strength are lower than the set value, there will be a text displayed on the transmitter screen and a "didi" sound dual alarm prompt to remind you.
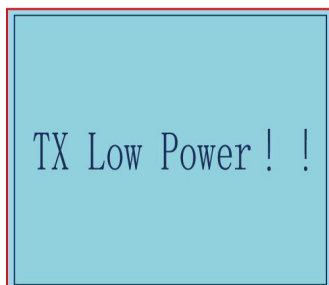
```
[ALARM]
TX  :7.4V
EXT :11.1V
RSSI:-95dBm
```

```
[ALARM]
RX  :3.7V
RATE:000rpm
TEMP:-40℃
```
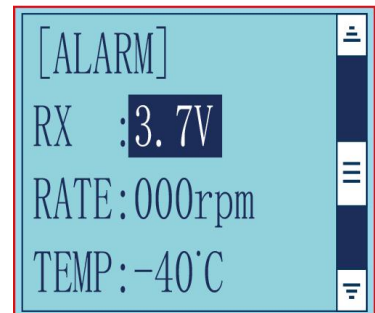
You can set the value in the "ALARM" menu: Press "Exit" and "Enter"button at the same time to enter menu, select the "19. ALARM" option, press "Enter"button to access the "ALARM" function interface. The transmitter default alarm voltage It is 5.0V, the receiver default alarm voltage is 4.0V, and the vehicle battery default alarm voltage is 11.1V.

The default alarm voltage of single-chip battery is 3.7V. For example, if you use a 3S lithium battery for your model, then the low voltage alarm value should be set to 11.1V (3.7V×3S). The setting method of transmitter and receiver is the same.

Transmitter voltage is low	**Receiver voltage is low**	**RC model battery voltage is low**
TX Low Power！！	RX Low Power！！	EXT Low Power！！

The RSSI alarm value is turned off by default. Users can set it as the RSSI value corresponding to the farthest safe distance of the actual control. For example, the farthest remote control distance is 400m, the corresponding RSSI value is -85dBm, then you can set the RSSI alarm value as -85dBm. When the vehicle is running, if the transmitter battery or vehicle battery is exhausted, or the RSSI signal is week the vehicle will lose control. Therefore, when the alarm sounds, please stop driving immediately and take the vehicle back, check the cause of the alarm, and deal with it properly. The alarm prompt is as right:

```
RSSI Low Alarm
```

2.20 Gyro Sensitivity "GYRO"

This function is available to set gyro sensitivity and VR mixing ON or OFF.

When MIX set OFF, gyro is disabled while when MIX set ON, you can adjust gyro sensitivity STD or VR. STD is adjusted on screen and VR is default CH3.

In normal mode (STD), range of sensitivity is 0%-100%.

(1) Enter the menu, use Dec(-) and Inc(+) to select options for gyro sensitivity.

(2) Press the key button "Enter" to enter sub-menu gyro sensitivity.

(3) Press "Enter" again, the initial value will start flashing, then use Dec (-) and Inc (+) to change the value.

(4) Press the button key "Enter", the value stops flashing, the setting is finished now.

(5) "Mode"and "Rate" can also be set by the same step.

(6) Press button key "Exit" to be back to initial screen.
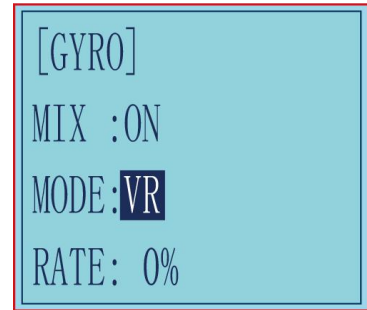
2.21 Fail Safe"F/S"

This function is set by servo, throttle, CH3, CH4, CH5 and CH6.

Option:

ST: Steering(CH1)

TH: Throttle(CH2)

CH3: Channel3(VR)

CH4: Channel4(SWA)

CH5: Channel5(SWB)

CH6: Channel6(SWC)
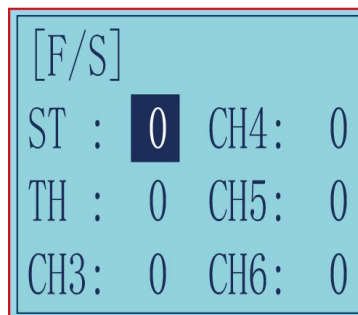
RANGE:

Servo: -100~+100

Throttle: -100~+100

CH3: -100~+100

CH4: -100~+100

CH5: -100~+100

CH6: -100~+100

Initial value: 0

(1) Enter the menu, use "Dec (-)" and "Inc (+)" to select options to set.

(2) Press the button key "Enter" to enter menu.

(3) Use "Dec (-)" and "Inc (+)" to select SERVO, then press "Enter". Now the initial value of SERVO will start flashing, use handle to change the value.

(4) Press the button key "Enter", the value stops flashing, now the value of SERVO is set.

(5) THROTTLE is to set by the trigger.

    CH3 is to set by VR controller.

    CH4 is to set by the button switch.

    CH5 is to set by the toggle switch.

    CH6 is to set by the toggle switch.

(6) Press "Exit" two times to back to initial screen.

2.22 Subsidiary ID "ID SEED"

ID SEED function means designating a subsidiary ID among multiple binding receivers to realize the control. There are totally 10 independent subsidiary IDs can be stored.

For example, RC6GS V2 has completed the binding with 10 different boats and the setup of respective parameters. Turn on the ID SEED function, select ID.1 boat and drive it to the central of water but it stops working unexpectedly. Then we can change to the ID.2 boat (or any other subsidiary ID boat preferred) and control it independently to rescue ID. 1 boat instead of controlling both boats at the same time, which makes the rescue more difficult. Unlike traditional binding mode, independent ID can easily realize rescuing stalled boat in the water caused by various reasons.

Press EXIT and ENTER simultaneously to enter MENU=>press Inc(+)/DEC （-） to highlight "22. ID SEED=>Press ENTER => Change the MODE from OFF to ON=> set the subsidiary ID number=> complete biding and parameters setting.

Once finished , the corresponding ID number will be displayed on the RC6GS V2 main interface .
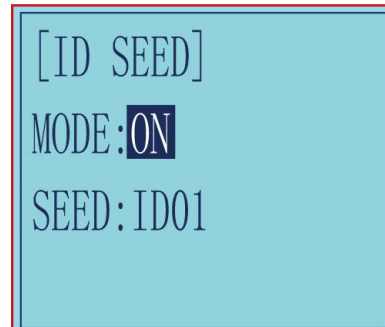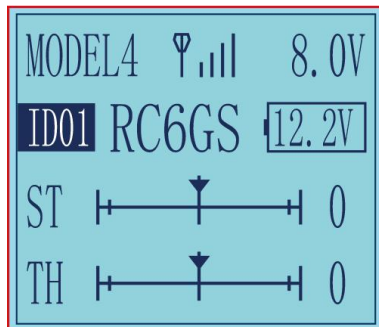
2.23 Factory Reset "RESET"

RESET- Data reset function:

All the data for any model memory can be reset to original factory defaults. Often this function is done to get a "fresh start" and clear the memory before inputting new model settings.

(1) Enter the function menu and use "Dec(-)" or "Inc(+)" button to access RESET function.

(2) Press "Enter" button to get into RESET function interface, the symbol "YES" will blink.

Be sure to reset

Press "Enter" key, the symbol "YES" will stop blinking, and return to the initial screen. Now the model data is reset to the initial setting that is the default value set at the factory.

Not to reset

Press "Dec(-)" or "Inc(+)" button, the symbol "YES" will stop blinking and the symbol "NO" will blink, press "Enter" key, the symbol "NO" will stop blinking, return to the initial screen by pressing "Exit" button twice.

Or you can press "Exit" button twice to quit resetting directly.

CAUTION: Resetting the current model memory will permanently erase ALL programming information for that model. The data cannot be recovered. Do not reset the model unless you are certain you want to clear-out that memory and start from scratch.
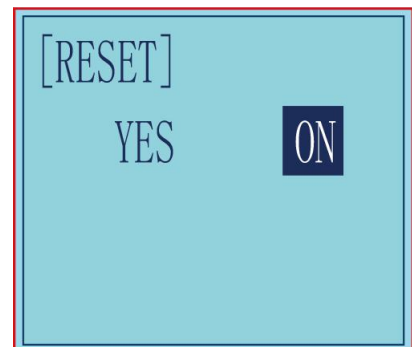
Thank you again for choosing our product。