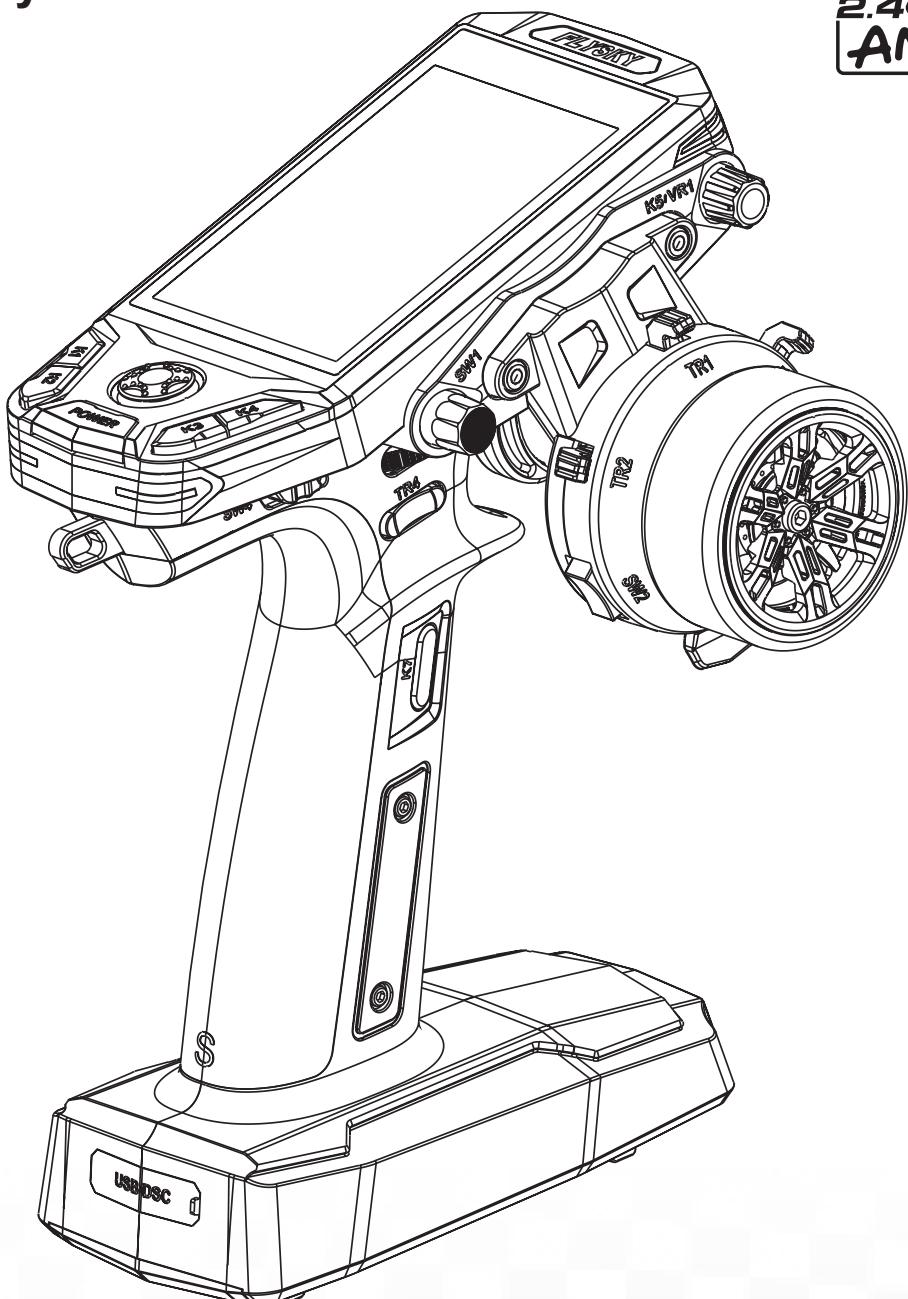


FS-G11P

USER MANUAL

Digital Proportional Radio
Control System

FLYSKY



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警告：
本产品只适合15岁以上人
群使用



Thank you for purchasing our products. Read the manual carefully to ensure your personal safety as well as the safety of your equipment.

If you encounter any problems during using, please refer to this manual first. If the problem is still not resolved, please contact the local dealer directly or contact the customer service staff via the website below:

<http://www.flysky-cn.com>

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1. Safety

1.1 Safety Symbols

Pay close attention to the following symbols and their meanings. Failure to follow these warnings could cause damage, injury or death.

| | |
|---|---|
|  Danger | • Not following these instructions may lead to serious injuries or death. |
|  Warning | • Not following these instructions may lead to major injuries. |
|  Attention | • Not following these instructions may lead to minor injuries. |

1.2 Safety Guide



Prohibited



Mandatory



- **Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.**
- **Do not use the product when visibility is limited.**
- **Do not use the product on rain or snow days. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.**
- **Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:**
 - Near any site where other radio control activity may occur
 - Near power lines or communication broadcasting antennas
 - Near people or roads
 - On any body of water when passenger boats are present
- **Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.**
- **The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large object can block the RF signal and lead to loss of control.**
- **Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause loss of control.**
- **Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.**



- **Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions.**
- **Make sure the product is properly installed in your model. Failure to do so may result in serious injury.**
- **Make sure to disconnect the receiver battery before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.**
- **Ensure that all servos operate in the correct direction. If not, adjust the direction first.**
- **Make sure the model flies within a certain distance. Otherwise, it would cause loss of control.**



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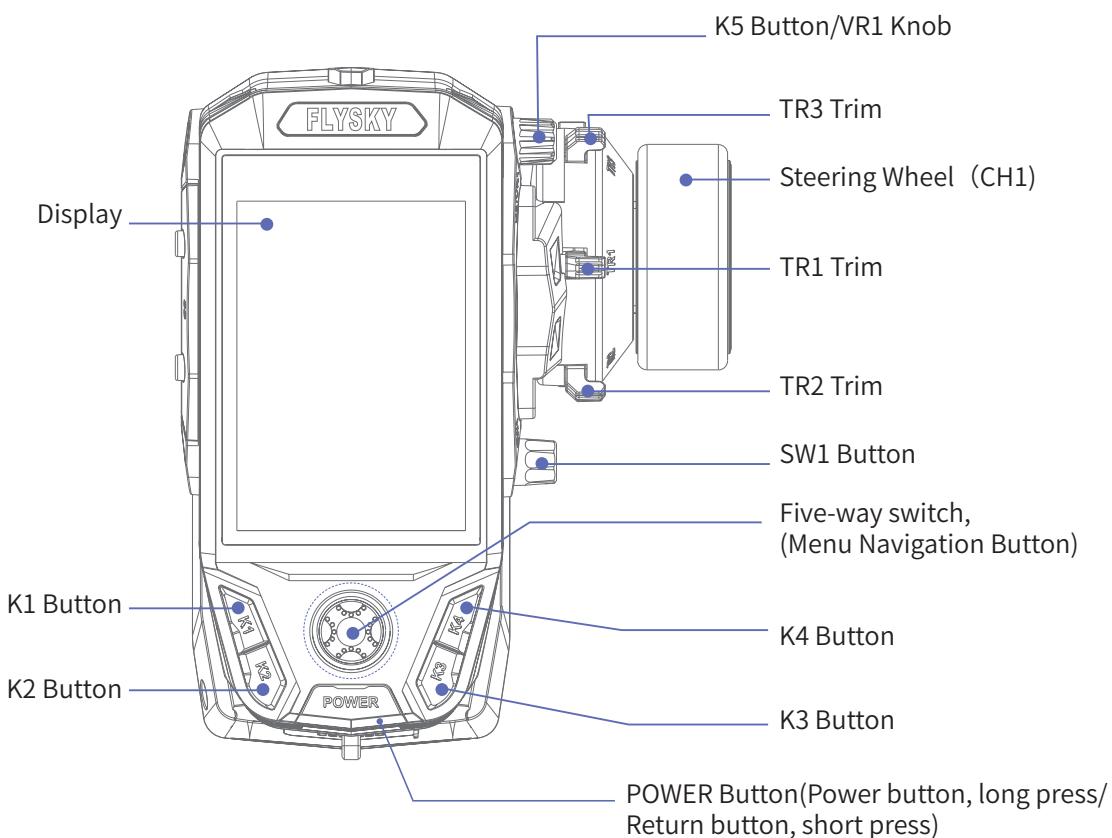


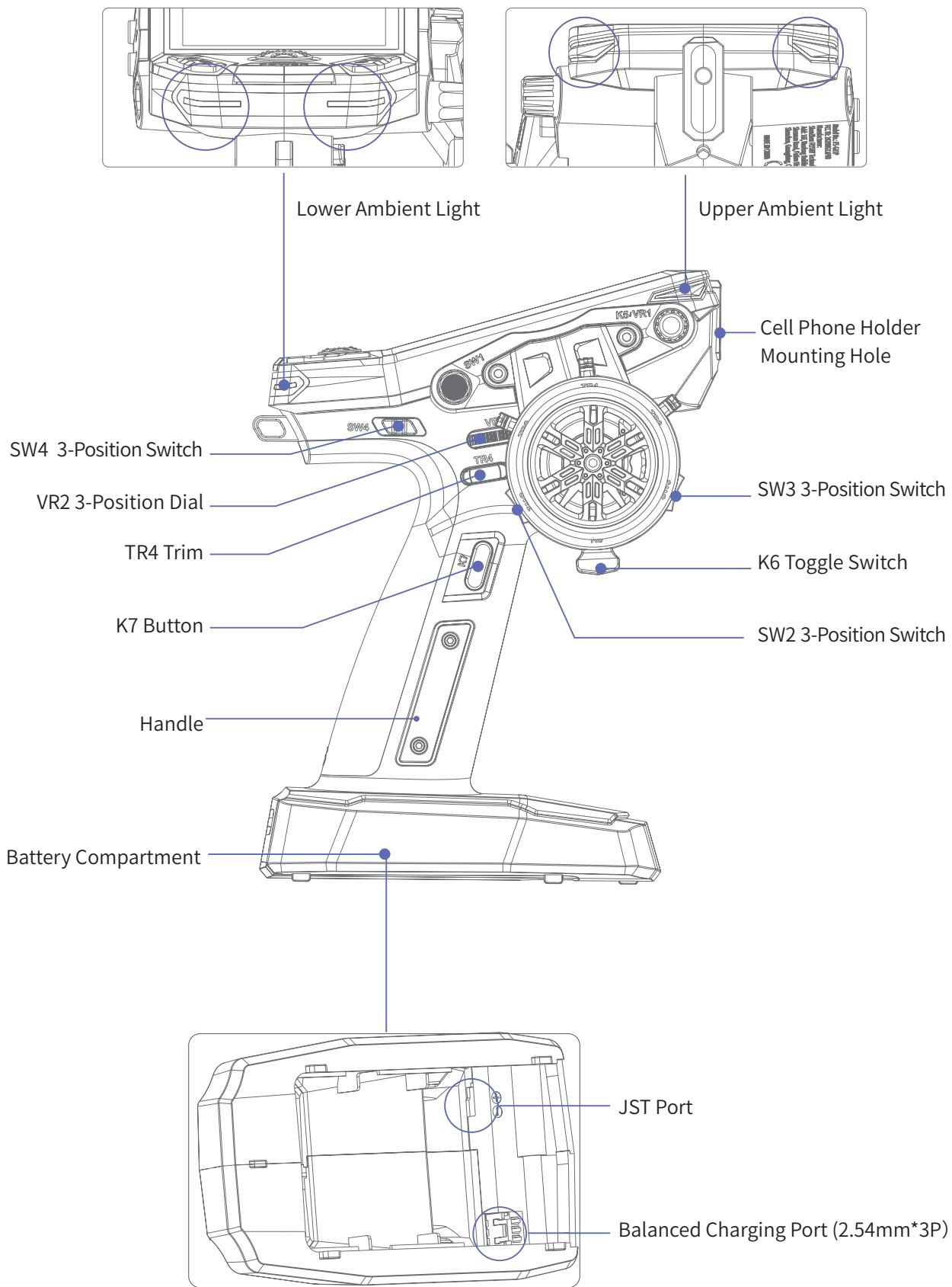
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2. Introduction

This product uses the 2.4 GHz ANT(Ant protocol) enhanced automatic frequency hopping digital system, consisting of FS-G11P transmitter and FS-R11P receiver. It has an output of 11 channels, compatible with model cars, boats, etc. And it also supports the Beginner function (Default disabled).

2.1 Transmitter Overview





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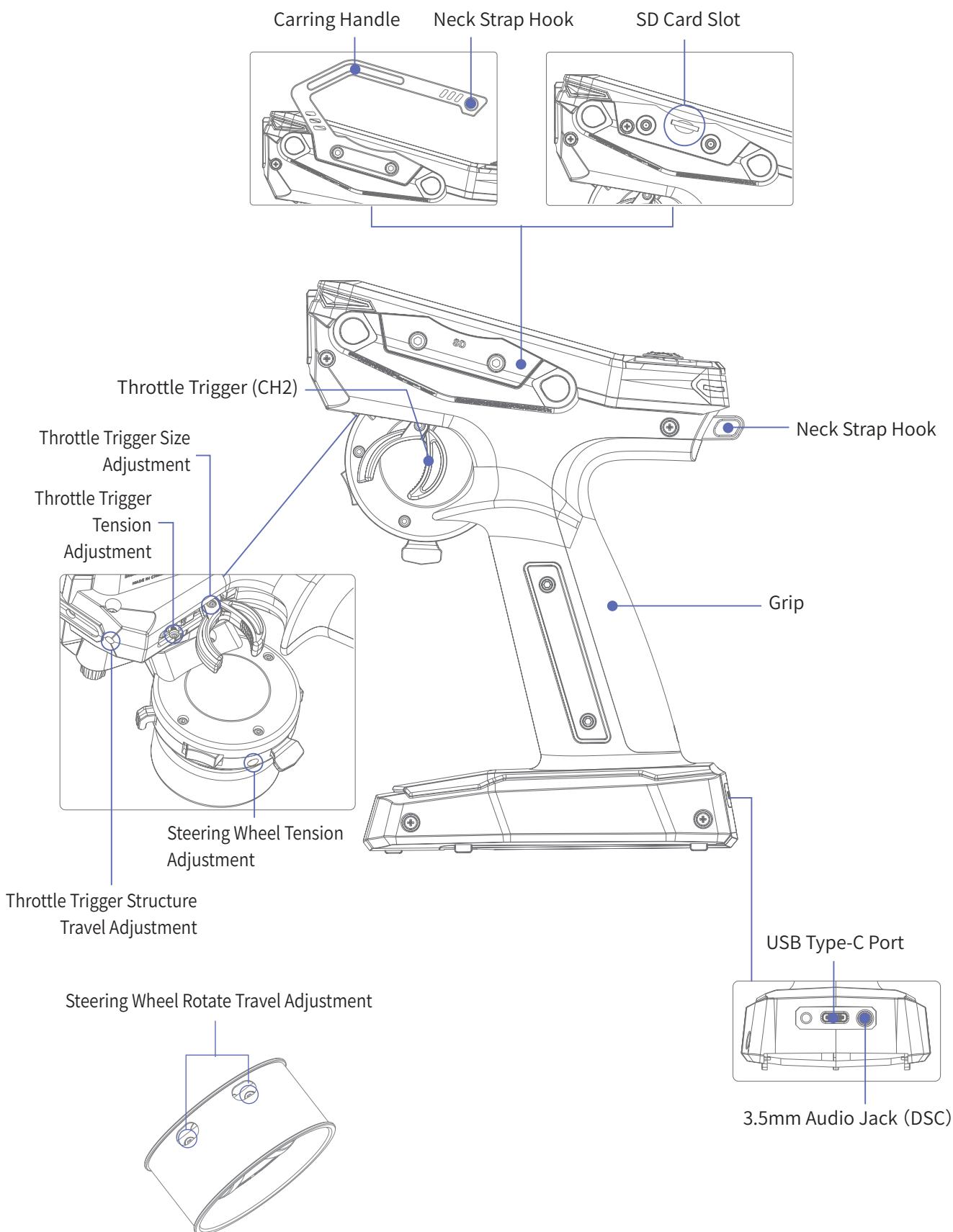
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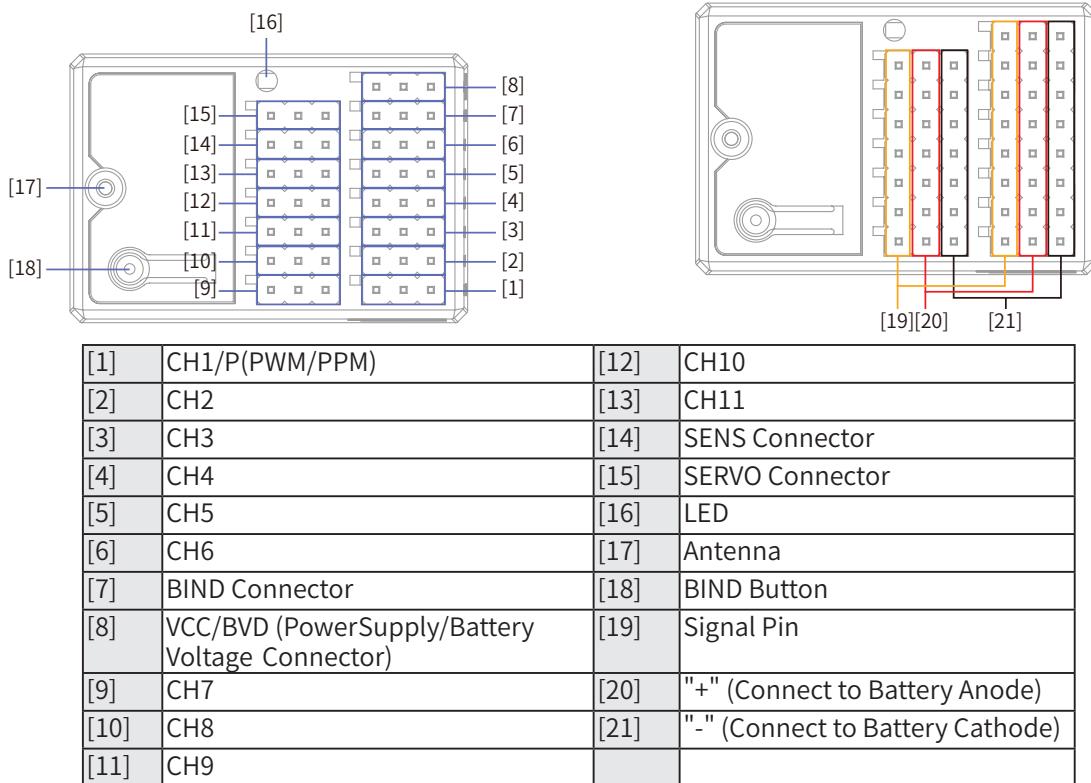
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2.2 Receiver Overview (FS-R11P)



2.2.1 Receiver LED

The LED status indicates the power supply state of the receiver and its working state.

Off: The receiver is not powered on.

Solid ON: The receiver works normally.

Fast Flashing: The receiver is in the binding mode.

Slow Flashing: The transmitter bound is powered off, or it has been not bound with a transmitter, or the receiver does not receive any signal.

Three-flash-one-off: The receiver is in the forced update mode.

2.2.2 Connector

All channel connectors are 2.54mm*3 Pin standard pins, and connectors are used to connect the receiver to the various components of the model.

Note: When using, please pay attention to the indicator marks on the receiver to ensure correct operation. Some marks may be located on the side of the receiver. Please operate according to the direction indicated by the marks to avoid misuse or damage to the equipment.

2.3 Antenna

It is an external antenna.

| | |
|------------------|--|
| ⚠ Caution | <ul style="list-style-type: none"> Do not pull the antenna of the receiver. Do not tie the antenna and the servo cable together. |
| ⚠ Warning | <ul style="list-style-type: none"> Do not put the antenna close to the metal materials, because this will affect the signal strength of the receiver. Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal. |



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3. Getting Started

Before operation, install the battery and connect the system as instructed below.

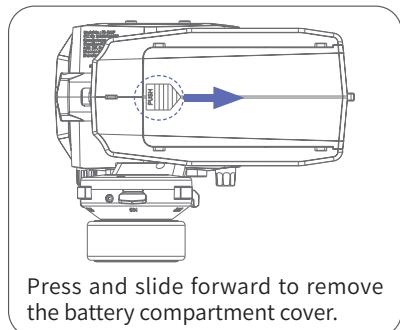
3.1 Transmitter Battery Installation

| | |
|---|--|
|  Danger | • Only use included batteries. |
|  Danger | • Do not open, disassemble, or attempt to repair the battery. |
|  Danger | • Do not crush/puncture the battery, or short the external contacts. |
|  Danger | • Do not expose to excessive heat or liquids. |
|  Danger | • Do not drop the battery or expose to strong shocks or vibrations. |
|  Danger | • Always store the battery in a cool, dry place. |
|  Danger | • Do not use the battery if damaged. |

Installing the 18650 battery

Follow the steps below to install the 18650 battery:

1. Open the battery compartment cover as shown.
2. Insert 2 batteries into the compartment. Make sure that the batteries are well set according to the polarities marked on the battery compartment.
3. Close the battery compartment cover.



Press and slide forward to remove the battery compartment cover.

Installing the LiPo battery

The transmitter supports LiPo batteries which are equipped one JST connector or one balanced charging connector of the battery wiring. Follow the steps below to install the LiPo batteries:

1. Open the battery compartment cover.
2. Remove the battery holder for installing 18650 batteries.
3. Insert 2S LiPo batteries into the compartment.
4. Plug the battery wiring of the LiPo battery into the JST port or balanced charging port accordingly.
5. Close the battery cover, pay attention to avoid pinching the battery wiring.

Notes:

1. Only the balanced charging port can be used for charging.
2. Once the transmitter has the battery installed, you can use a USB Type-C cable to connect to the transmitter's USB Type-C port for power supply.



Five-way Switch(Menu Navigation Button) and POWER button (Power/Return Button)

The functions of five-way switch (Menu Navigation Button) and the POWER button (Power/Return Button) are described as follows.

Five-way Switch(Menu Navigation Button)

In the Home state,

- Long press the Middle button for 2s to lock the screen, and long press it again to unlock;
- Long press the Middle button for 1s to select the sensor, short press the Left/Right buttons to select the function item, and short press the Middle button to enter the Sensors Set interface;
- Short press the Up button to enter the Home1, and short press the Middle button to activate the servo testing function; short press the Down button to enter the Home2; short press the Up, Down, Left and Right buttons to select function items; short press the Middle button to enter the selected function item;
- Short press the Middle button to enter the Main Menu interface.

In the Main Menu state,

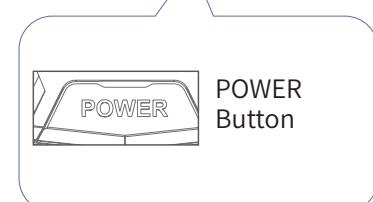
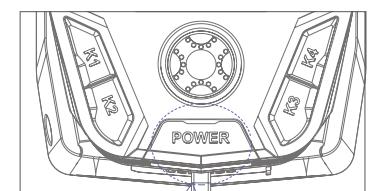
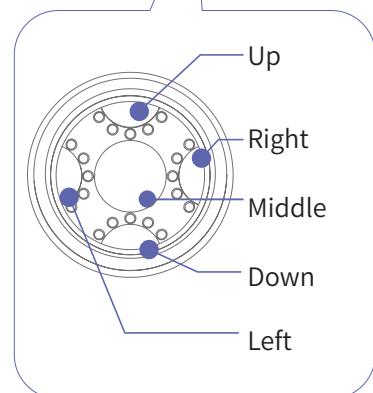
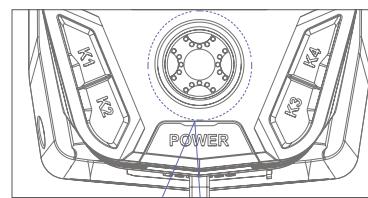
- Short press the Up, Down, Left and Right buttons to select function items; short press the Middle button to enter the selected function item.

In the Function Menu state,

- Short press the Up, Down, Left and Right buttons to select functions; short press the Middle button to confirm; long press the Middle button to reset all the functional data on the current page to default values.

In the Function Menu Settings state (the function item is flashing),

- Short press the Down or Up button to adjust the value or function item; long press to accelerate adjustment; short press the Middle button to confirm; long press the Middle button to reset the current item to its default value.



POWER Button (Power/Return Button)

Short press the POWER button to return to the previous interface or Home interface; long press the POWER button to shut down.



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4. Operation Instructions

After setting up, follow the instructions below to operate the system.

4.1 Powering On

Follow the steps below to turn on the transmitter:

1. Check to make sure that the batteries are fully charged and installed correctly.
2. Long press the POWER button, and follow the prompts on the screen to successfully power on.
 - If the built-in RF module is not detected or needs to be updated, the system will prompt a pop-up window. Please follow the instructions in the pop-up window to proceed.
 - The system will pop up a window prompting whether the failsafe is set for the current model. To turn off the failsafe prompt, select No or turn off the Failsafe Tips through System.
 - If the system is powered on using the USB Type-C port without a battery installed, a pop-up window will appear, "Please use after installing the battery!"

| | |
|--|--|
|  Note | • Operate with caution in order to avoid damage or injury. |
|  Note | • Make sure that the throttle is at its lowest position and the switches are set to their up position. |

4.2 Binding

The transmitter and the receiver have been pre-bound before delivery. If you need to use other receivers, follow the steps below to bind the transmitter and the receiver. The transmitter supports both ANT 2 Way and ANT 1 Way binding, and ANT 2 Way binding is the default setting. The transmitter will display the information returned by the receiver after the ANT 2 Way binding is completed. Before binding, it is necessary to set **RF System**, **RF Standard**, **RX Type**, **Output**, and **Frequency** according to the actual application scenario.

RF System Two modes are available: Routine and Fast. In Routine mode, it presents strong anti-interference performance against other devices, while Fast mode provides better coexistence with lower latency and power consumption.

RF Standard To select RF protocol, either ANT 2 Way or ANT 1 Way.

RX Type When the RF Standard is set to ANT 2 Way, the receiver type can be set to Standard or ESC.

Output Two combined output options are available, including four output modes, namely PWM/S.BUS, PPM/i-BUS, PWM/i-BUS and PPM/S.BUS. Choose according to your needs. Using the FS-G11P transmitter and FS-R11P receiver for binding as an example:

- When the [Output Mode] is set to PWM/S.BUS, connectors such as CH1 output PWM signals, and the SERVO connector outputs S.BUS signals.
- When the [Output Mode] is set to PPM/i-BUS, the CH1 connector outputs PPM signals, other channel connectors have no output, and the SERVO interface outputs i.BUS signals.
- When the [Output Mode] is set to PWM/i-BUS, connectors such as CH1 output PWM signals, and the SERVO connector outputs i.BUS signals.



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- When the [Output Mode] is set to PPM/S.BUS, the CH1 connector outputs PPM signals, other channel connectors have no output, and the SERVO interface outputs S.BUS signals.

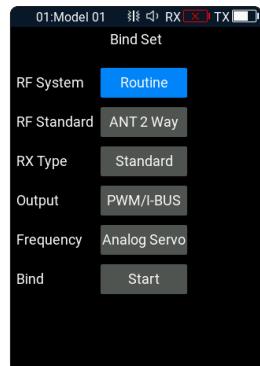
Note: Regardless of which type the receiver's [Output Mode] is set to, the SENS connector will output the i-BUS-in signal.

Frequency Set the frequency of channels. Options include Digital Servo, Analog Servo, and Other.

Note: Select or configure the correct output frequency value according to the servo in use. Incorrect settings may cause servo malfunction or even damage.

After the above settings, complete ANT 2 Way binding following the steps below:

- Select Start, and short press the Middle button, the transmitter will enter binding state.
- Press and hold the BIND button of the receiver while powering on the receiver, the LED of the receiver should be flashing, indicating that the receiver is in bind mode.
 - For other binding ways, please refer to the FS-R11P receiver manual.
- When the receiver LED is solid on, it indicates successful binding.
- Check whether the transmitter and receiver are operating properly. For re-binding, please repeat the above steps.



Note: If the transmitter that has its RF standard set to ANT 1 Way enters bind mode, put the transmitter to exit binding state when the status of the receiver LED changes to slow flash, and at the same time, the receiver LED is solid on, indicating that the binding is completed.

- This binding procedure applies to FS-G11P transmitter and FS-R11P receiver, different receivers may enter the forced update in different ways, please go to the FLYSKY website to query the instructions of the relevant receiver for action.**
- The products are subject to constant update. Please enter FLYSKY website for the latest transmitter and receiver compatibility form.**

4.3 LED

The transmitter's up and down LED ambient lights can be adjusted for color and brightness according to different scenarios and personal preferences. You can either turn off the LED or set it to indicate the transmitter's battery level. This transmitter offers seven preset colors for the LED ambient lights (red, green, blue, yellow, cyan, purple or multicolor). For specific steps on setting the transmitter's LED light color, please refer to the [6.20.1 set up] section of this manual.



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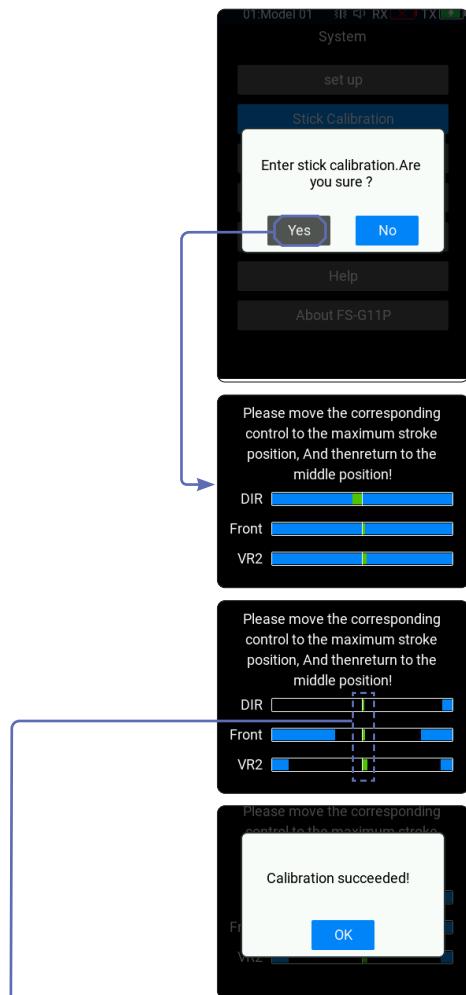


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4.4 Stick Calibration

Use this function to correct for the mechanical deviation of the throttle trigger, steering wheel and VR2 3-Position Dial, for example, deviation occurred in the self-centering or maximum/minimum travel. By default, the calibration is finished. If you need to calibrate again, follow the steps below:

1. Go to Home > Main Menu > System, and select Stick Calibration, short press the Middle button, and select Yes on the pop-up interface to enter the function interface.
2. Turn the steering wheel to the max and min travel clockwise/ counterclockwise respectively, then release it. Push/pull the throttle trigger to forward/backward as far as it will go, and then release it.
3. Rotate the VR2 3-Position Dial to the max and min travel, then rotate it to its middle position.
4. Short press the POWER button, the system will pop up a prompt interface. If the calibration is successful, a calibration successful prompt interface will pop up. Short press the Middle button to exit. If the calibration fails, select No to recalibration, otherwise to cancel the calibration.



Note: The green indicator bar shows only the mechanical midpoint position of the steering wheel, throttle trigger or knob. The 'Mid' value reflects the real-time midpoint reading. As different triggers, wheels and controls have varying movement ranges, the calibration display may adjust accordingly. After successful calibration, verify channel outputs in the [CH Monitor] interface.

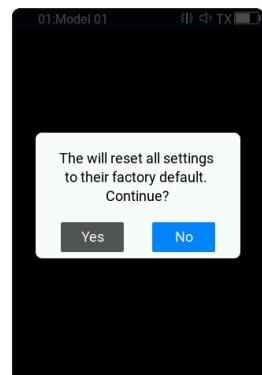


4.5 Factory Reset

Used to restore all settings and parameters of the transmitter, that is, all model data and settings are restored to their default state.

Follow the steps below to factory reset:

Select [System]>[Factory Reset], short press the Middle button, and then on the prompt pop-up, select "Yes" to complete the settings.



4.6 Powering Off

Follow the steps below to turn off the transmitter:

1. Turn off the receiver first.
2. Long press the POWER button until the screen turns off, indicating that the transmitter is powered off.



- Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.



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5. System Interface

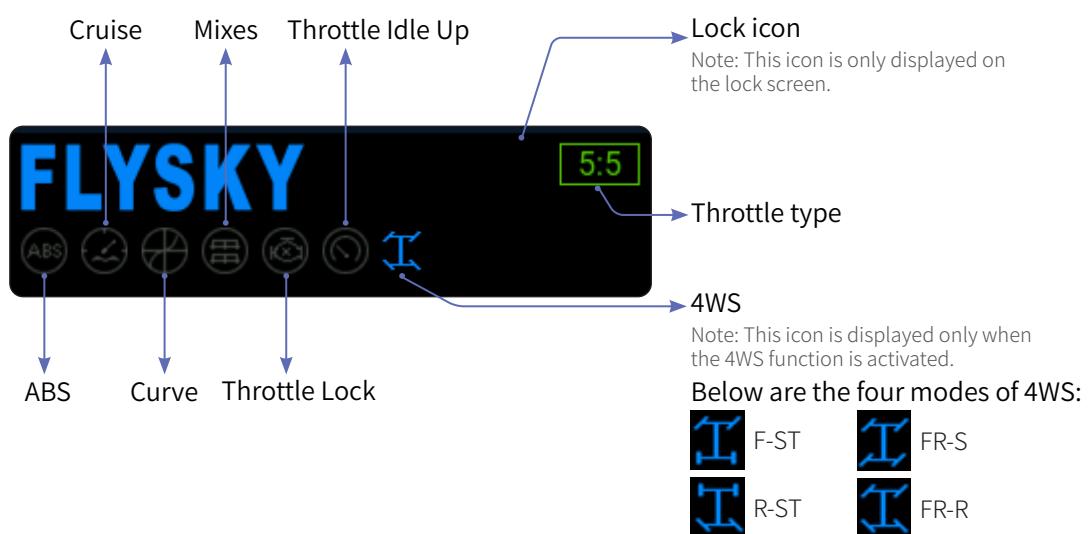
The system interface mainly displays information related to the model, such as transmitter voltage information, function status and so on.

Main Interface



Function Status Display Area

The function status bar displays the status of various functions. If the function shows in bright color, then it is active; if it is light gray, then it is inactive.



Home 1

You can customize the setting of the shortcut display function interface. The CH Monitor interface is displayed by default. You can choose 9 function items for CH Monitor, Sensor, Failsafe, Timer, System(set up), RX Set, Model, ASSIGN and Main Menu.



Setup:

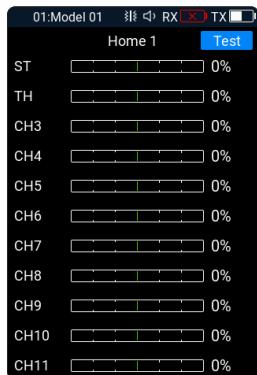
1. Select [System]>[set up]>[Home 1];
2. Select the corresponding items as needed;
3. Return to the main interface, then short press the Up button to enter the Home 1.

CH Monitor

To display the real-time output value of each individual channel.

Setup:

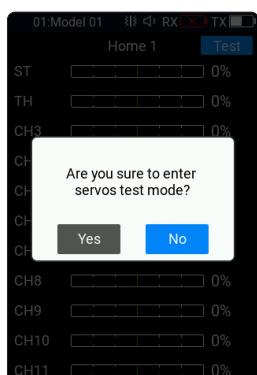
1. Select [System]>[set up]>[Home 1]>[CH Monitor];
2. In the main interface, then short press the Up button to enter the Home 1;
3. Toggle or press the Switch/Knob assigned to the channel;
4. View the output value of the channel in the CH Monitor interface.



The servo can be tested. When it is turned on, the servos of all channels will move slowly and repeatedly. Please be caution when the function is activated.

Setup:

1. Short press the Middle button, the system prompts a pop-up window, select [Yes] to start;
2. Short press the Middle button again to exit the servos test mode.



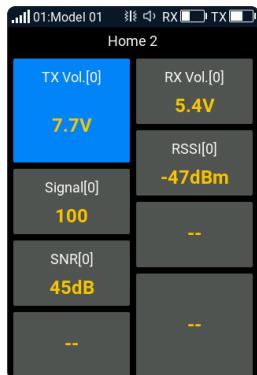
Home 2

The Sensors Set interface is displayed by default. The settings of Home 2 shortcut are similar to those of the Home 1. Refer to the description of Home 1.

Setup:

1. Select [System]>[set up]>[Home 2];
2. Select the corresponding items as needed;
3. Return to the main interface, then short press the Up button to enter the Home 2.

Note: Please refer to the [6.16 Sensor] about specific steps for sensor setting.



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6. Function Settings

This section introduces details functions and their use.

6.1 Reverse

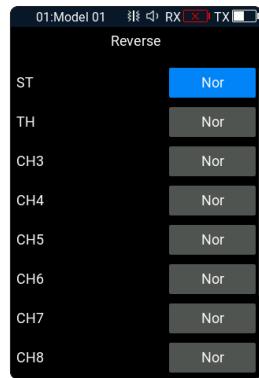
The Reverse function is used to correct a servo or motor's direction in relation to the systems controls.

[Nor]: Indicates that the channel output is the default direction.

[Rev]: Indicates that the channel's direction has been reversed.

Setup:

1. Select the corresponding channel as needed;
2. Select [Nor] or [Rev];
3. Test to make sure everything is working as expected.



6.2 EPA

Endpoint function is used to set the max range of movement and the movement range limitation(minimum value, maximum value) for each channel.

Setup:

1. Select the corresponding items as needed;
2. Short press the Up button or Down button to change the end point position (Press and hold to accelerate the adjustment).The maximum is 150% and minimum is 0%.



6.3 Subtrim

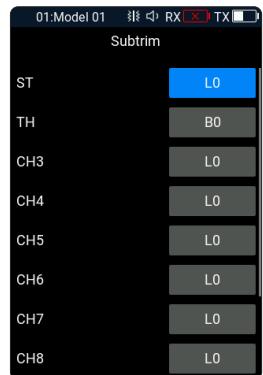
Subtrim can be used to adjust the error of the structure by changing the channel neutral position.

For example, if a car's wheels are slightly out of alignment, even when the transmitter steering wheel is not being touched, subtrim can be used to correct the alignment.

Assign VR/ TR controls to quickly adjust ST or TH subtrim value.

Setup:

1. Select the corresponding items as needed;
2. Short press the Up button or Down button to raise or lower the percentage as needed (Press and hold to accelerate the adjustment). And the setting range is -120~0~120us.



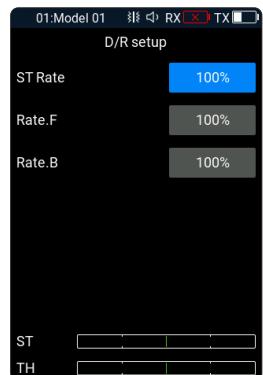
6.4 D/R setup

To set the output rates of channel 1 and channel 2, namely, the ST Rate, the TH Rate, and the Brake Rate.

The value range which can be set is from 0 to 100%. The default value is 100%. The steering progress bar and the throttle progress bar which are located at the bottom of the interface display the real-time channel status of this two channels respectively.

Setup:

1. Change the percentage as needed (Press and hold to accelerate the adjustment). Assign VR/TR controls to quickly adjust the percentage;
2. Then short press the Middle button to save the settings.



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6.5 Curve

It is used to set the data change rate of channel 1 and channel 2, that is, the Steering Curve, the Forward Curve, and the Brake Curve.

Assign K/SW controls to quickly enable/disable the function.

6.5.1 ST Exp

To set the data change rate of channel 1.

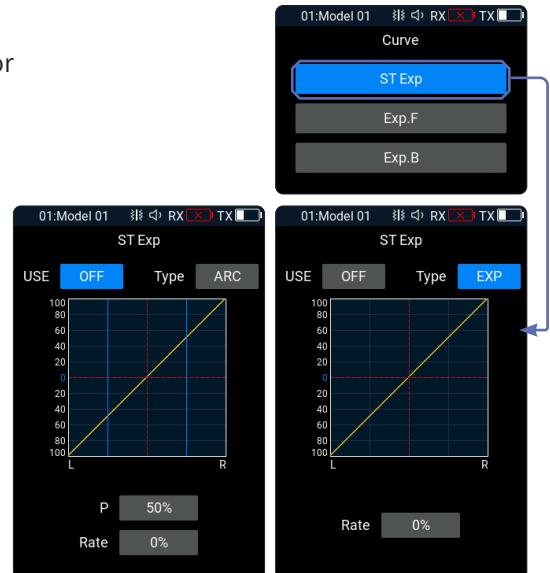
[Type]: Set the curve change form. You can set it to exponential [EXP] or ARC. By default, it is EXP.

[Rate]: Set the slope of the curve. Assign VR/ TR controls to quickly adjust rate.

[P]: It can be adjusted when the type is set to ARC, and used to set the turning point position of the polyline.

Setup:

1. Select [ST Type] to enter the setting interface;
2. Select [Type] >[EXP] or [ARC];
3. Change the percentage as needed.



6.5.2 Exp.F

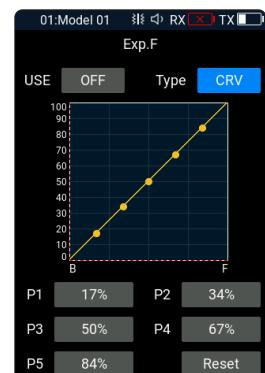
To set the data change rate of channel 2.

[Type]: Set the curve change form. You can set it to exponential [EXP], ARC or multi-fold CRV (fixed fold position, 9 points in total). By default, it is EXP.

[Rate]: Set the slope of the curve. Assign VR/ TR controls to quickly adjust rate.

[P]: It can be adjusted when the type is set to ARC, and used to set the turning point position of the polyline.

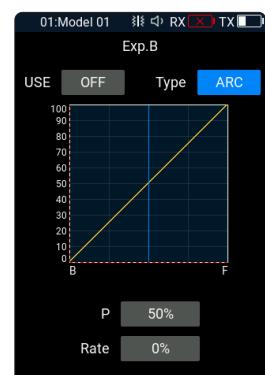
Refer to [6.5.1 ST Exp] for function setup.



6.5.3 Exp.B

To set the data change rate of channel 2 in case of brake or backward.

Refer to the previous description [6.5.2 Exp.F] for the function setting steps and parameters descriptions.



6.6 Channel Speed

This function allows you to set the steering speed, throttle forward speed and brake speed.

The minimum delay is 0.00s, and maximum delay is 10.00s. The adjustment step is 0.01s.

The [ST], [Front] and [Brake] can be quickly adjusted by assigning VR/ TR controls.

6.6.1 ST

Changes the corresponding speed of the servo when the steering channel is outputting at fast speed.

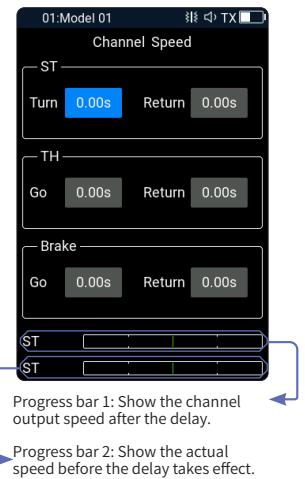
This function can be used for adjustment when the vehicle is operated with fast steering, which may cause the vehicle to lose control or when the vehicle structure cannot withstand a too fast steering speed.

[Turn]: Slows down channel output speed when the steering wheel is moving from the neutral position to maximum travel.

[Return]: Slows down channel output speed when the steering wheel returns to the neutral position.

Setup:

1. Select [Turn] or [Return];
2. Short press the Up button or Down button to change response duration as needed (Press and hold to accelerate the adjustment);
3. Then short press the Middle button to save the settings.



6.6.2 TH

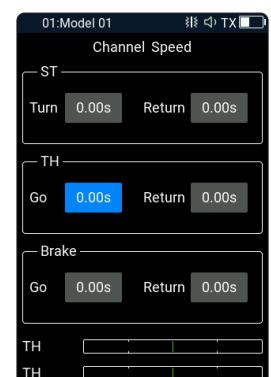
This function is used to set the delay of the throttle start and return-to-neutral.

[Go]: Sets the speed of throttle acceleration.

[Return]: Sets the speed at which the throttle returns to the neutral position.

Setup:

1. Select [Go] or [Return];
2. Short press the Up button or Down button to change response duration as needed (Press and hold to accelerate the adjustment);
3. Then short press the Middle button to save the settings.



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6.6.3 Brake

This function is used to set the delay of the throttle brake/backward and return-to-neutral.

[Go]: Sets the speed of the throttle brake.

[Return]: Set the speed at which the throttle brake returns to the neutral position.

Refer to [6.6.2 Front] for function setup.



6.7 ABS

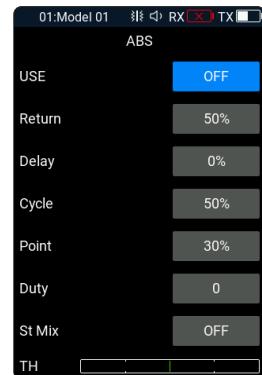
ABS stands for auto breaking system. This function is used to stop the wheels from locking which can lead to loss of control or a skid. ABS manages this by regulating the amount of pressure the breaks use, which is done by pumping the breaks on and off rather than a constant force.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

The [Return], [Delay], [Cycle], [Point] and [Duty] can be quickly adjusted by assigning VR/ TR controls.

USE

Enable or disable the ABS function. This function is disabled by default.



Return

Controls the reduction of braking during each pulse.

Can be set to any value between 0% and 100%. The adjustment step is 1%. By default it is set to 50%. If set to 60%, when the brakes are active; the system will remove 60% of the brakes strength on each pulse. If set to 100%, the brakes are passive.

Delay

Determines how long it takes for the ABS system to take effect.

Can be set to any value between 0% and 100%. The adjustment step is 1%. By default it is set to 0%. At a setting of 0%, the ABS system will take effect as soon as the brake is applied. The higher the value, the longer it will take for the ABS to function. When set to 0% there will be no delay, meaning the breaks will be applied as soon as they are triggered. The maximum setting of 100% will result in a delay of 2 seconds.



Cycle

Increases or decreases the time between pulses. That is, the cycle of the ABS function.

Can be set to any value between 20% and 100%. The adjustment step is 1%. By default it is set to 50%. The higher the value, the longer the pulse. The maximum setting of 100% will result in a cycle length of 0.5 seconds.

Point

Configures the point at which the ABS starts to function.

Can be set to any value between 10% and 100%. The adjustment step is 1%. By default it is set to 30%. The higher the percentage, the further the trigger has to be moved to activate the ABS 0%-100% represents the entire stroke of breaking servo.

Duty

Changes the length of each pulse and the gap between them.

Adjustment range is from -4 to +4 cycles. By default it is set to 0. The time to release the brake is the same as the time to the brake. As the value changes, the length of the braking waves peaks and troughs will change independently of each other and will no longer be symmetrical.

Adjusting the brake to release ratio:

When the period is set to "0", the ratio is 1: 1;

When the period is set to "1", the ratio is 1: 2;

When the period is set to "-1", the ratio is 2: 1.

St Mix

ABS can be enabled or disabled automatically while turning when mixed with steering wheel .

The percentage represents the trigger position through its entire range of movement. E represents inside, N represents outside; if 50% N is set, the ABS function is to turn off when within 50% (10% N-50% N), and outside 50% (50% N-100% N) is to turn on the ABS function; If 50% E is set, the ABS function will be turned on within 50% (10% E-50% E), and the ABS function will be turned off outside 50% (50% E-100% E).

Setup:

1. Select [USE]>[ON];
2. Short press the Up button or Down button to select the corresponding items;
3. Short press the Middle button, at this time the function item will begin to flash;
4. Short press the Up button or Down button to change the value (Press and hold to accelerate the adjustment);
5. Then short press the Middle button to save the settings.



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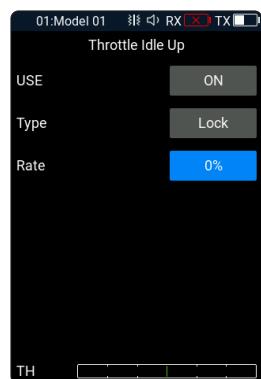
6.8 Throttle Idle Up

Throttle Idle Up is used for models that use a fuel based engine that will stall. If left at 0 throttle. Idle up makes sure that the engine always has some throttle in order to keep it from stalling.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

USE

Enable or disable the Throttle Idle Up function. This function is disabled by default.



Type

Idle Up Mode: [Normal] or [Lock].

[Normal]: When the trigger is pulled back, the channel data continues to decrease.

[Lock]: When the trigger is pulled back, the channel data locks to the set value.

Rate

Set the hold value of the idle up.

The setting range is between -50% and 50%. The adjustment step is 1%. By default it is set to 0%.

The [Rate] can be quickly adjusted by assigning VR/ TR controls.

Setup:

1. Select [USE]>[ON];
2. Select [Type], select the corresponding items as needed;
3. Select [Rate], change the percentage as needed.



6.9 Throttle Lock

When THrottle Lock is triggered via a button it sets the throttle channel to a predefined position.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.



USE

Enable or disable the Throttle Lock function.

Rate

Set the target value for throttle lock.

The setting range is between -100% and 100%. The adjustment step is 1%. By default it is set to 0%.

The [Rate] can be quickly adjusted by assigning VR/ TR controls.

Setup:

1. Select [USE]>[ON];
2. Select [Rate], change the percentage as needed.

6.10 Curise

When the cruise function is enabled, the throttle channel remains the channel value output as the function is enabled. When the vehicle travels at the desired speed, the cruise function can be enabled.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

Notes :

1. This function cannot be enabled when the throttle is in neutral, backward or brake.
2. When this function is enabled, it exits the cruise mode when the throttle enters the braking state.



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USE

Enable or disable the Cruise function. This function is disabled by default.

Rate

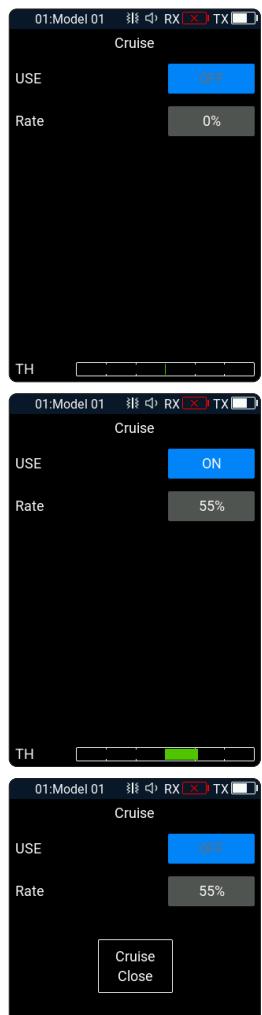
Set the real-time throttle amount after cruise mode is activated.

The setting range is between 0% and 100%. The adjustment step is 1%. By default it is set to 0%.

The [Rate] can be quickly adjusted by assigning TR controls.

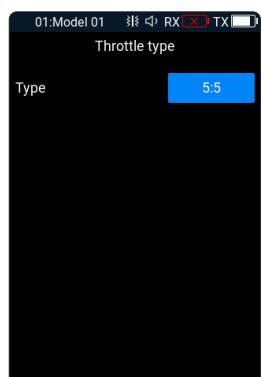
Setup:

1. When the throttle enters the forward state, select [USE]>[ON];
2. Short press the Up button or Down button to change the percentage (Press and hold to accelerate the adjustment);
3. Then short press the Middle button to save the settings.



6.11 Throttle Type

The Throttle type function is used to set the neutral position of the throttle and brake to correct the problem of unequal throttle travel and brake travel of some models. If the neutral position is not set correctly, the model may start acceleration and driving directly after power-on.



Type

Used to set the rate of throttle for forward and brake/backward.

You can choose a fixed rate (Front 7: Brake 3, Front 5:Brake 5 or Front 0: Brake 0).

Setup:

1. Select the corresponding types as needed;
2. Then short press the Middle button to save the settings.

6.12 AUX.CH

FS-G11P has two fixed channels. Channel 1 outputs steering and channel 2 outputs throttle. Channel 3~11 are auxiliary channels. You can use this function to assign the control and set the channel name to the auxiliary channel for easy operation.

Channel name pre-selection

Setup:

1. Select the corresponding channel as needed;
2. Short press the Middle button to enter the channel setting interface;
3. Short press the Middle button to enter the [Name] setting interface;
4. Select [Preinstalled];
5. Select the corresponding name as needed;
6. Then short press the Middle button to save the settings.

Custom the channel name

Setup:

1. Select the corresponding channel as needed;
2. Short press the Middle button to enter the channel setting interface;
3. Short press the Middle button to enter the [Name] setting interface;
4. Select [Custom];
5. Set the desired channel name using the soft keyboard.
6. Then select to save the settings.

Note: A name can be set to any combination of letters, numbers or symbols.



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Set a control

Sets a control to control the channel.

Type

You can select TR,SW,K, and VR controls.

Mode

Used to switch the operating mode of the K controls.

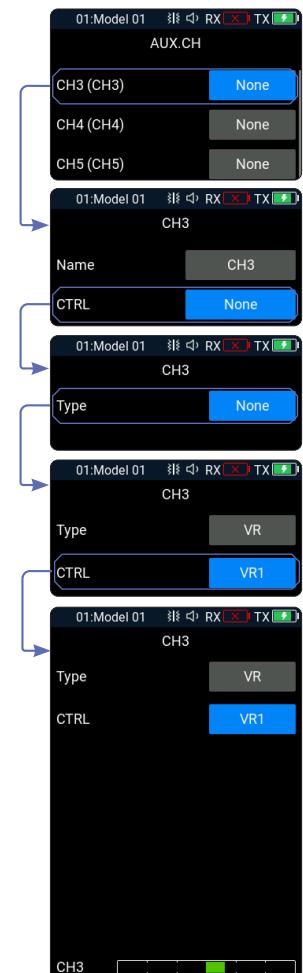
Step

Used to adjust the value change of a single operation.

Setup:

1. Select the corresponding channel as needed;
2. Select [CTRL];
3. Select the corresponding type as needed;
4. Then short press the Middle button to save the settings.

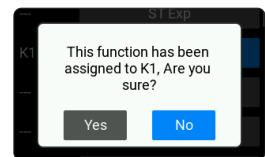
Note: Refer to [6.13 ASSIGN] for detailed information on VR, K, SW and TR controls.



6.13 ASSIGN

The key assignment function is used to assign keys or switches to different functions for quick switch or control.

Note: Each function is controlled by only one control. If the current function has already been assigned a control, when this function is selected again, the interface will display a pop-up prompt. If you choose "Yes," the original control will be replaced. If you choose "No," the function will not be assigned.



K Controls

K1, K2, K3, K4, K5, K6, and K7, these 7 controls have the same function, and can be used to quickly enable, disable or switch functions.

| ASSIGN | | | | |
|--------|------|------|-----|------|
| Type | CTRL | FUNC | DIR | Mode |
| K | K1 | None | Nor | Turn |
| | K2 | None | Nor | Turn |
| | K3 | None | Nor | Turn |
| | K4 | None | Nor | Turn |
| | K5 | None | Nor | Turn |
| | K6 | None | Nor | Turn |
| | K7 | None | Nor | Turn |

[FUNC]: Select the function to be assigned to the control.

[D|R]: You can choose [Nor] or [Rev]. When the [Rev] is selected, the actual operation of this K control is the opposite of the output.

[Mode]: You can choose [Tigger] or [Turn], When the [Tigger] is selected, channel data will change once through key triggering, channel data will return to the state before key operation when the key is released; when the [Turn] is selected, channel data remains in effect at the time of trigger if the button is rebounded.

Setup:

1. Select [Type]>[K];
2. Select the corresponding control as needed;
3. Select [FUNC] to enter the K control setting interface;
4. Select the corresponding functions as needed, then short press the POWER button to return to the previous interface;
5. Select [D|R], then select [Nor] or [Rev] as needed;
6. Select [Mode], then select [Turn] or [Tigger] as needed.

SW Controls

SW1, SW2, SW3, SW4 and VR2, these 5 controls have the same function, and can be used to quickly enable, disable or switch functions.

| ASSIGN | | | |
|--------|------|------|-----|
| Type | CTRL | FUNC | DIR |
| SW | SW1 | None | Nor |
| | SW2 | None | Nor |
| | SW3 | None | Nor |
| | SW4 | None | Nor |

Setup:

1. Select [Type]>[SW];
2. Select the corresponding control as needed;
3. Select [FUNC] to enter the SW control setting interface;
4. Select the corresponding functions as needed, then Short press the POWER button to return to the previous interface;
5. Select [D|R], then select [Nor] or [Rev] as needed.



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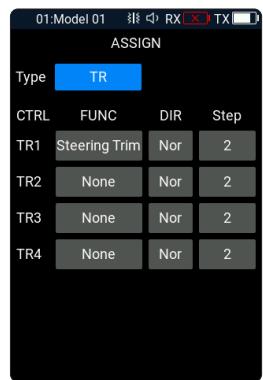


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TR Controls

TR1, TR2, TR3, and TR4 are four controls with the same function, which can be used to quickly adjust function parameters. TR1 is default assigned to the Steering Trim function, while the other three controls are in an unassigned state.

[Step]: Step, which is used to adjust the value change of a single operation, the level range is 1-120, the step is 2 by default. The user can adjust it as needed.



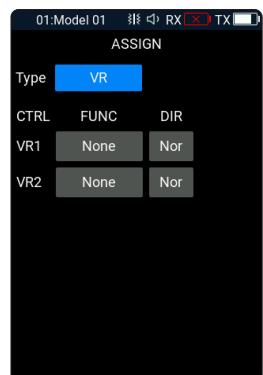
Setup:

1. Select [Type]>[TR];
2. Select the corresponding control as needed;
3. Select [FUNC] to enter the TR control setting interface;
4. Select the corresponding functions as needed, then Short press the POWER button to return to the previous interface;
5. Select [D|R], then select [Nor] or [Rev] as needed;
6. Select [Step], short press the Up button or Down button to change the value (Press and hold to accelerate the adjustment).

VR Controls

VR1 and VR2 are two controls with the same function, which can be used to quickly adjust function parameters.

Refer to [SW Controls](#) for function setup.



6.14 Mixes

You can set up to 4 different functional mixes, which are respectively [4WS], [Track Mix], [Drive Mix] and [Programming Mix 1-8].

4WS

Used to set the wheels that control steering of the vehicle, front, rear or all four wheels. This function is applicable to crawler with steering on both front and rear wheels. By default, the front wheel steering is used in this function.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

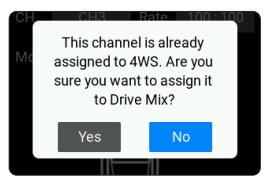
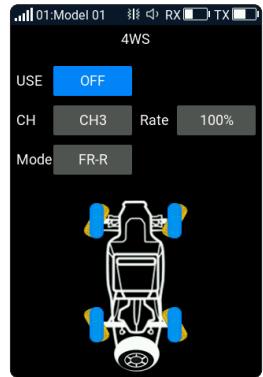
[CH]: Select the mixed channel.

[Rate]: Set the amount of mixing from the steering channel mixing to the mixed channel. The adjustment range is 0-100%. The [rate] can be quickly adjusted by assigning TR controls.

[Mode]: Select [F-ST], [R-ST], [FR-S], [FR-R]. Assign K/SW controls to quickly enable/disable the function.

Setup:

1. Select [Mixes]>[4WS];
2. Select [USE]>[ON];
3. Select [CH], select the channel as needed;
 - Each channel can only be assigned one mixing function. It is not allowed to conflict with other Func Assign channel. When the selected channel is assigned with other mixing functions, the system will give a pop-up window reminder.
4. Select [Rate], change the rate as needed (Press and hold to accelerate the adjustment);
5. Select [Mode], select the corresponding mode as needed.



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Track Mix

This function is applicable to models such as tracked vehicles and tanks, and allows one trigger or steering wheel to control the left and right tracks to move forward or steering differently at the same time.

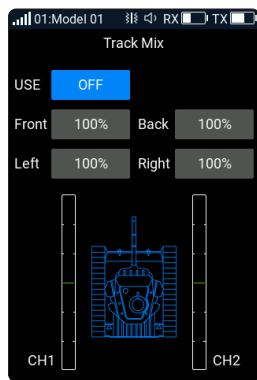
This function allows you to set the rates of forward, backward, left and right separately. The rate adjustment range is 0-100% and the adjustment step is 1%. The percentage can be quickly adjusted by assigning TR controls.

The left progress bar shows the channel value of CH1 left track. The right progress bar shows the channel value of CH2 right track.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

Setup:

1. Select [Mixes]>[Track Mix];
2. Select [USE]>[ON];
3. Short press the Up button or Down button to change the percentage as needed (Press and hold to accelerate the adjustment).



Drive Mix

Drive mix is used to set the way to control the vehicle engine drive, including three drive modes: rear drive (R Drive), front and rear hybrid drive (F-R Drive), and front drive (F Drive). By default, rear drive is used.

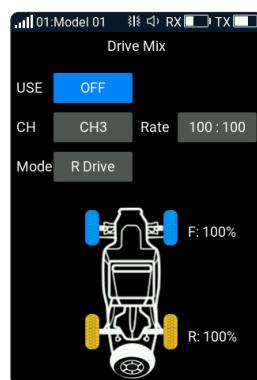
Front drive has a shorter braking distance, which is suitable for emergency braking. In Rear drive, the front wheels can focus on steering, which is more suitable for vehicle drift. The front and rear hybrid drive is to drive the vehicle by starting all four wheels together, which can provide more traction to improve power of the vehicle in acceleration, hill climbing, and other roads.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

[CH]: Select the mixed channel.

[Rate]: Include front rate (F) and rear rate (R) (100:100=F100%:R100%). The rate is only used when front and rear drive are mixed. The adjustment range of both front and rear rate is 0-100%, and the adjustment step is 1%. The [Rate] can be quickly adjusted by assigning TR controls.

[Mode]: Select three Drive modes. Assign K/SW controls to quickly enable/disable the function.



Setup:

1. Select [Mixes]>[Drive Mix];
2. Select [USE]>[ON];
3. Select [CH], select the channel as needed;
 - Each channel can only be assigned one mixing function. It is not allowed to conflict with other Func Assign channel. When the selected channel is assigned with other mixing functions, the system will give a pop-up window reminder.
4. Select [Rate], change the rate as needed (Press and hold to accelerate the adjustment);
5. Select [Mode], select the corresponding mode as needed.

Brake Mix

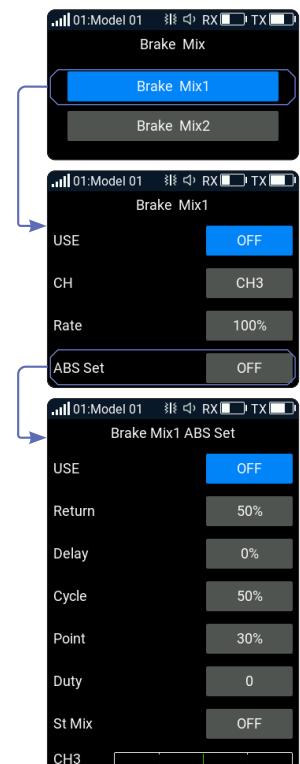
This function has two sets of brake mixing controls, to use multiple servos to control brakes; for example, models using different servos to control the front and rear brakes. If your model uses multiple channels to control the brakes together, you can use this function to control the brake channel as a mixed channel for the throttle channel.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

[CH]: Select the mixed channel.

[Rate]: Set the amount of mixing from the throttle (brake/backward) channel mixing to the mixed channel. The rate can be quickly adjusted by assigning TR controls.

[ABS set]: Set the corresponding ABS function for the mixed channel.



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Setup:

1. Select [Mixes]>[Brake Mix1] or [[Brake Mix2];
2. Select [USE]>[ON];
3. Select [CH], select the channel as needed;
 - Each channel can only be assigned one mixing function. It is not allowed to conflict with other Func Assign channel. When the selected channel is assigned with other mixing functions, the system will give a pop-up window reminder.
4. Select [Rate], change the rate as needed (Press and hold to accelerate the adjustment);
5. Select [ABS set]>[ON] or [OFF].
 - Refer to [6.7 ABS] for function setup.

Programming Mix1-8

The Mixing function can be used to set the mix-control relationship between channels, containing a total of 8 groups of mixing relationships.

The function is disabled by default, assign K/SW controls to quickly enable/disable the function.

[Master Channel]: Select a primary channel from the items. The primary channel will affect the slave channel.

[Slave Channel]: Select a slave channel from the items.

[Hide Side Mix]: Set the influence range of the high end of the mixing channel on the mixed channel.

[Low Side Mix]: Set the influence range of the low end of the mixing channel on the mixed channel.

[Offset]: Set the offset of the mixed channel.

[Hide Side Mix], [Low Side Mix] and [Offset] can be quickly adjusted by assigning VR/ TR controls.



Setup:

1. Select [USE]>[ON];
2. Select [Master Channel], select the master channel as needed;
3. Select [Slave Channel], select the slave channel as needed;
4. Select [Hide Side Mix] or [Low Side Mix] as needed, then short press the Up button or Down button to change the percentage (Press and hold to accelerate the adjustment of low-end or high-end mixing control amounts);
5. Select [Offset], then short press the Up button or Down button to change the offset associated with the master channel and the slave channel.



6.15 Timers

This function can set with a variety of timers, to generally calculate the total model run time, competition specific time spent, or transmitter run time, etc.

The timer function can be activated in three modes: Up timer, Down timer and Lap timer.

The [Start], [Stop], [Reset], and [Lap] functions of the timer can be controlled by assigning K/ SW controls.

When the [TMR ST/Stop/RES] function is assigned via [ASSIGN], a short press on the timer starts or pauses the countdown, while a long press resets it.

Up Timers

Start timing from zero.

[Type]: Set the timer mode.

[TH]: Select whether to enable the throttle trigger to start the timer.

[Alarm]: Set the timer alarm time.

[EW]: Set to enable the timer's pre-alarm prompt. The system will give an sound and vibration warning 10 seconds before the set alarm time elapses.

[Reset]: Reset the single timer function to its default value.

[Start]: Start the timer.

Setup:

1. Select [Type]>[Up];
2. Select [TH]>[ON] or [OFF];
3. Set the corresponding alarm time as needed;
4. Select [EW]>[ON] or [OFF];
5. Select [Start] to start the timer.



Down Timers

Start timing down from the set time.

When the countdown time left only 10 seconds, the system will send a voice prompt every second.

Refer to Up Timers for function setup.



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Lap Timers

Keep track time for each individual lap.

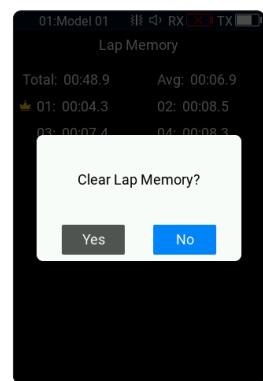
Once triggered the "Start" icon will become the "Lap" icon. The system immediately enters the timing for the next lap, with the timer providing a voice prompt for the last lap's lap number. The timer interface pauses for 3 seconds and displays the duration of the last lap's timing. Each time the "Lap" icon is pressed the last lap will be recorded in the lap timer list. The maximum number of laps is 100 and the minimum lap time must be over 3 seconds.

[Lap Memory]: Records the results from the lap timer. In this list, there will be a special icon marking for the lap with the least time used.

In the Lap Memory, long press the Middle button to clear the list information.



| Lap Memory | |
|------------|---------|
| Total: | 00:48.9 |
| ★ 01: | 00:04.3 |
| 02: | 00:08.5 |
| 03: | 00:07.4 |
| 04: | 00:08.3 |
| 05: | 00:10.2 |
| 06: | 00:04.4 |
| 07: | 00:05.8 |



6.16 Sensor

This function can display the sensor information received by the receiver on the transmitter.

The transmitter and receiver communicate via a ANT-2-Way binding, and all sensors connected to the receiver can find corresponding information under this function menu.

Display Sensors

This list displays all sensor data connected to this transmitter device, including sensor type, ID and real-time value.

[Type]: To show the sensor type.

[ID]: To display the sensor's number.

By default, the number zero in the list includes the TX Voltage, RX Voltage, Signal strength, RSSI, Noise and SNR.

No. 1 is the first external sensor connected to the receiver, and so on, and up to 14 sensors in total.

This list data is displayed in real time. When the receiver is connected to a sensor, this list will be refreshed to display the new sensor's data. When the sensor is disconnected, the sensor data will not be displayed.

[Value]: To display the data returned by a sensor.

Below is the description for some sensor parameter information:

- TX Voltage (TX Vol.): To display the voltage for the transmitter's battery.
- RX Voltage(RX Vol.): To display the power supply voltage for the receiver.
- Signal strength (Signal): To display the signal strength between the transmitter and the receiver. It is calculated by using SNR. The signal strength will be displayed as a value between 0 and 100. In the same environment, the farther the distance, the smaller the value. When the value is below 60, reduce the control distance to avoid losing control. If the signal strength is less than or equal to the set threshold, the system will trigger a low signal alarm as configured.
- RSSI: To indicate the power of the signal received by the receiver. 0 to -40dBm: Indicates that the distance between transmitter and receiver is close and the communication quality is best. -40dBm to -85dBm: The communication quality is good. Less than -85dBm: Indicates that there is an obstacle between the transmitter and receiver or the distance is far. Please shorten the control distance to avoid losing control.
- SNR: The signal-to-noise ratio refers to the decibel difference between the signal and the noise received by the receiver. The signal-to-noise ratio equals the data of RSSI subtract the data of Noise, which is a decisive parameter in the overall quality of the signal. If the SNR drops below 11, reduce the range quickly to prevent loss of control.
- Noise: Noise is generated due to interference from other nearby transmitters such as Wi-Fi. In places where there are too many transmitters, excessive noise will affect the radio-controlled distance.

| Display Sensors | | |
|-----------------|----------|--------|
| ID | Type | Value |
| 0 | TX Vol. | 7.8V |
| 0 | RX Vol. | 5.4V |
| 0 | BVD Vol. | 0.00V |
| 0 | Signal | 100 |
| 0 | Noise | -91dBm |
| 0 | SNR | 50dB |
| 0 | RSSI | -42dBm |



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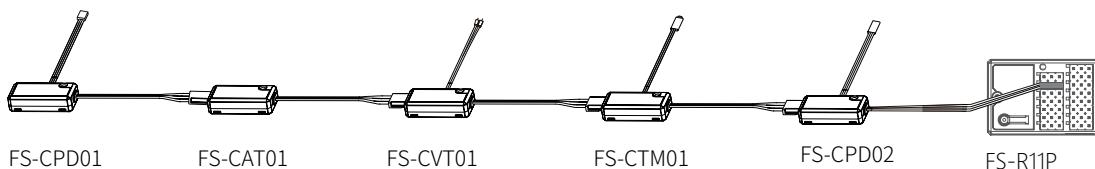
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When the transmitter is connected to the 2-in-1 receiver, the sensor list does not display the receiver's voltage.

Supports i-BUS series sensors: FS-CAT01 (altitude), FS-CPD01 (speed / magnetic), FS-CPD02 (speed / light), FS-CVT01 (voltage), FS-CTM01 (Temperature) and FS-CGPS01 (GPS).

i-BUS series sensor connection diagram:

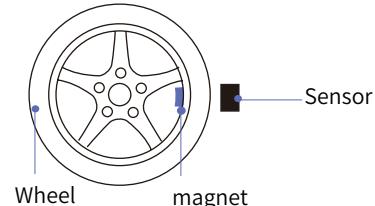
Taking the FS-R11P receiver binding with the FS-G11P transmitter as an example, the sensor is connected to the SENS connector of the FS-R11P. If multiple sensors are connected simultaneously, the next sensor can be connected to the IN connector of the previous sensor.



Speed sensor (FS-CPD01, FS-CPD02)

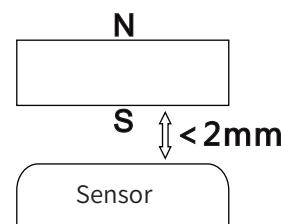
The speed sensor is applied to test the speed of the motor.

- "Motor speed" indicates that the sensor is testing the motor speed;
"0rpm" is the speed measurement value.



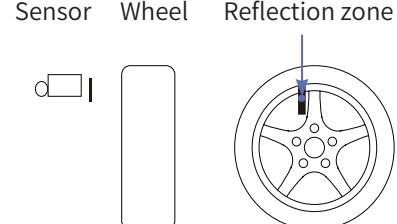
Magnetic induction speed sensor (FS-CPD01)

1. Connect the FS-CPD01 sensor to the receiver or other sensors connected to the receiver using the same method as shown above;
2. Place the sensor next to the magnet, which is fixed at the position of the axial rotation to be tested (e.g. inside the wheel hub of the model car);
3. Place the sensor within 2 mm of the magnet, with the south or north pole of the magnet parallel to the sensor;
4. Turn on the transmitter, and select [Sensor] > [Display Sensor]. Turn the gear. When the [Type] column shows "RPM" and the RPM value (0rpm) in the [Value] column changes. It indicates that installation is successful. Otherwise, repeat the above steps.



Light induction speed sensor (FS-CPD02)

1. Connect the FS-CPD02 to the relevant device, with the same connection method as above;
2. Fix the sensor and the reflective sticker at the position of the axial rotation to be tested. Keep the sticker flat and perpendicular to the sensor probe. Keep a moderate distance between the sensor probe and the sticker;
3. Turn on the transmitter, and select [Sensor] > [Display Sensor]. Turn the gear. When the [Type] column shows "RPM" and the RPM value (0rpm) in the [Value] column changes. It indicates that installation is successful. Otherwise, repeat the above steps.



Temperature Sensor (FS-CTM01)

Used to monitor the temperature of various components. The temperature of the component can be monitored via the transmitter. Alarms can be set.

1. Connect the FS-CTM01 to the receiver or other sensors using the same method as used with other sensors;
2. Use a spongy double-sided tape to stick the temperature probe to the part you wish to monitor (such as: motor, battery);
3. Turn on the transmitter, enter [Sensor]>[Display Sensors] and rotate the wheel. If the [Type] column displays "Temperature" and the [Value] column displays a temperature then the installation was successful, otherwise repeat the above steps.

Voltage Sensor (FS-CVT01)

It is used to monitor the model's battery voltage. The battery voltage can be monitored through the transmitter. Alarms can be set.

1. Connect FS-CPD02 following the same steps as above;
2. Insert the red and black wire pins into the plug of the battery used for testing. The red wire is the power anode and the black wire is the power cathode. Make sure to connect correctly;
3. Turn on the transmitter, enter [Sensor]>[Display Sensors] menu and rotate the wheel. If the [Type] column displays "External Voltage" and the [Value] column displays a voltage then the installation was successful, otherwise repeat the above steps.



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Sensors Set

Used for selecting sensors, setting up alarms, and defining both low and high alarm values.

[Alarm]: Set whether the sensor alarm is enabled, with the default being off.

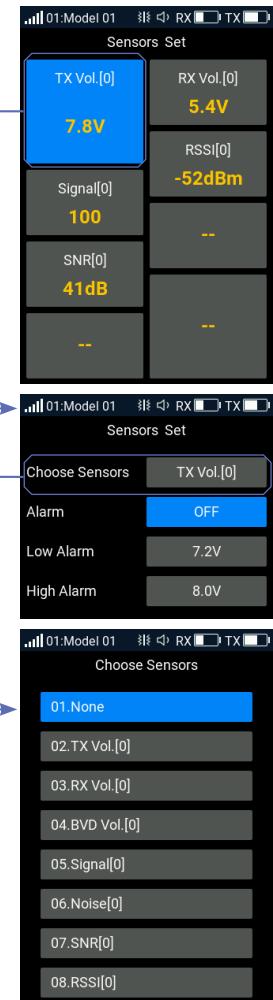
[Low Alarm]: Set the lower alarm value for the sensor.

[High Alarm]: Set the Higher alarm value for the sensor.

Setup:

1. Select the [Sensors];
2. Select the corresponding items to enter the Sensors Set interface;
3. Select the [Choose Sensors] to enter the list;
4. Select [Alarm]>[OFF] or [ON];
5. Set the corresponding both low and high alarm values.

The steps for setting up other sensor functions are the same as above.



Speed And Distance

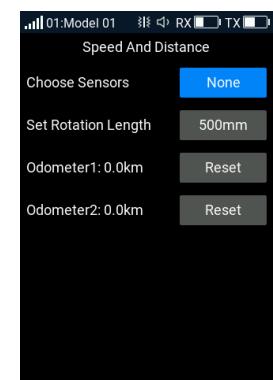
This function is used to detect monitor wheel revolutions and distance traveled.

[Choose Sensors]: Selects the target sensor. If the sensor and receiver are connected, then it will appear in this menu automatically. If multiple speed sensors are connected, the default display is [None].

[Set Rotation Length]: If a speed sensor is installed on the wheel, you need to define the Rotation Length. This length will be used to calculate the distance traveled. Short press the Up button or Down button to adjust the radius.

[Odometer 1]: Odometer 1 is used to record the distance traveled.

[Odometer 2]: Odometer 2 is used to record the total driving distance, and as such is the cumulative distance from each session.



BVD Voltage Calibration

There may be a voltage difference between the voltage detected by the receiver and the actual voltage of the battery. Use this function to set a calibration coefficient for the receiver to make the voltage displayed on the interface is equal to the battery voltage, namely, the sum of the detection voltage and the calibration coefficient is equal to the voltage displayed on the interface.

The BVD voltage detection range is from 0 to 70V.

Battery Voltage Displays the battery voltage detection value returned by the receiver in real time.

Note:

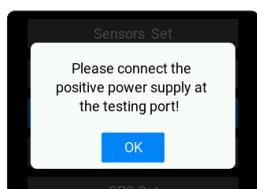
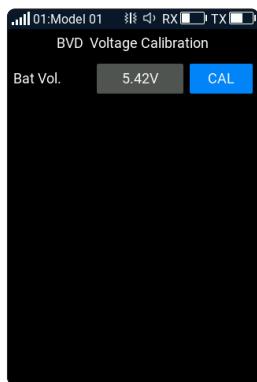
1. This function is available for ANT receivers with BVD function, must be in two-way communication with the transmitter.
2. Pay attention to correctly connecting the BVD cable and the anode and cathode of the battery as shown in the diagram below.

Setup:

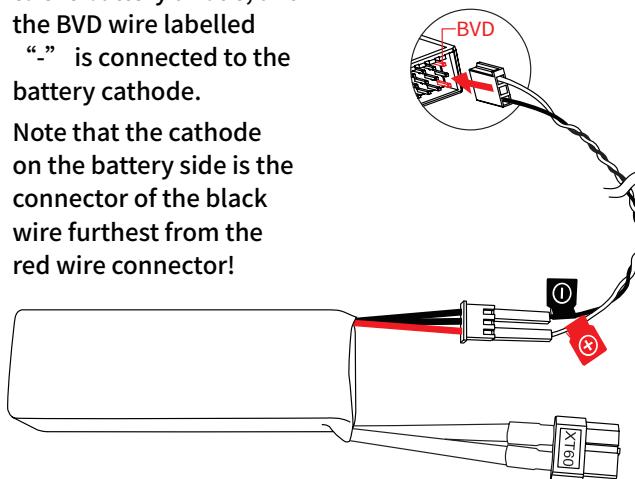
Connect the BVD detection line correctly before setting, and then perform calibration.

Note: please refer to the voltage value of multimeter for calibration.

1. Select [BVD Voltage Calibration] to enter the function setting interface.
2. Then change the battery voltage value as needed.
 - Select [Calibration]. After successful calibration, click "YES" in the pop-up window reminder.



! Make sure the BVD wire labelled "+" is connected to the battery anode, and the BVD wire labelled "-" is connected to the battery cathode.
Note that the cathode on the battery side is the connector of the black wire furthest from the red wire connector!



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Altitude Zero Set

Reset the altitude sensor data.

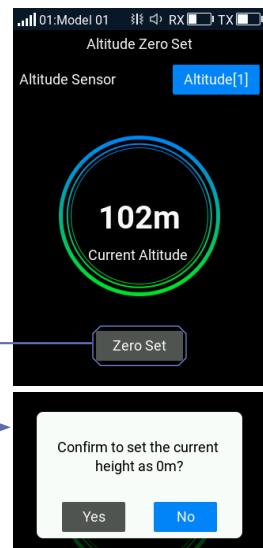
[Altitude Sensor]: Select the altitude sensor that needs to be zeroed.

If multiple speed sensors are connected, the default display is [None].

[Zero Set]: Used to adjust the current height to 0 meters.

Setup:

1. Select [Altitude Sensor], and then choose the Altitude Sensor as needed;
2. Select [Zero Set], and then select "Yes" in the pop-up window that appears.

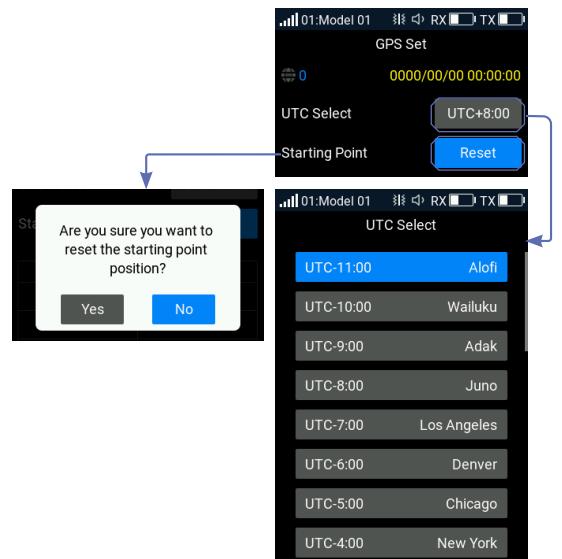


GPS Set

This function is applicable to FS-CGPS01 module. You can view the GPS-related information received on the transmitter side, such as speed, distance, relative altitude, elevation, latitude and longitude. You can also calibrate the GPS, select the time zone, and reset the starting point.

[UTC Select]: Display the set time zone. Enter the time zone selection interface, then press the POWER button to return to the previous interface.

[Starting Point]: Selecting [Reset] will reset the starting point position.

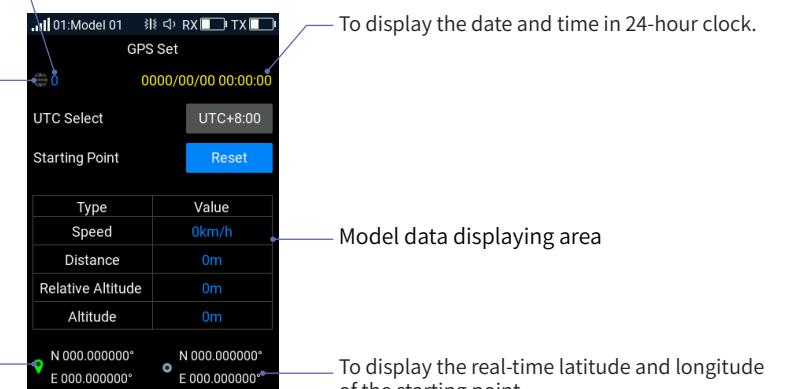


GPS Display

To display the number of satellites returned by GPS.

When the number of displayed satellites is more than 10, the GPS positioning accuracy is high, otherwise there is positioning error.

To show whether the positioning is successful or not. If the icon is blue indicating the positioning is successful, the icon is gray, then the positioning is failure.



6.17 Model

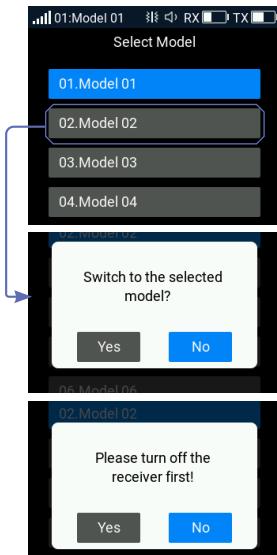
Used to set model-related functions.

Select Model

Used for selecting and switching models. The FS-G11P can store up to 40 models.

After selecting, then select a model from the list.

- Transmitter is in two-way communication with the receiver, a safety prompt window will be displayed. Then select "Yes" in the prompt window to switch successfully.



Model Name

Set the name of the current model. Supports up to 12 characters.

After selecting, enter a new name using the soft keyboard, and then select to save the settings.

Channel Number Definition

Note: This feature was added in version 2.2.4.

This function is applicable to standard receivers, with selectable channel options of 2 channels (Fast), 4 channels, 6 channels, 8 channels, or 11 channels.

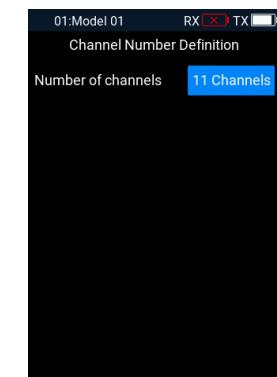
When selecting a receiver, ensure its channel capacity matches your transmitter's configuration. Choosing a receiver with insufficient channels may limit your transmitter's functionality, while opting for excessive channels will result in unused channel resources.

Configuration Example:

For systems requiring ≤ 8 channels (e.g., FS-SR8 with 8 PWM outputs), set your transmitter to 8-channel mode. When expanding to 11 channels using PWM converters, configure your transmitter for 11-channel operation.

After selecting the [Number of channel], configure the appropriate number of channels. The system will display a confirmation prompt – select [Yes] to complete the setup.

- If the larger number of channels is switched to the lower number of channels, the system will prompt "The model will be reset and the code needs to be rechecked, are you sure?". Select "Yes". Switching is successful. If the lower number of channels is switched to the larger number of channels, the system will prompt "To modify this you need to bind receiver again! Continue?". Select "Yes". Switching is successful.



Notes:

- When the user selects 2-channel mode, only steering and throttle channels are supported.
- This function is hidden when the external/built-in RF module is disabled or when using a 2-in-1 receiver.



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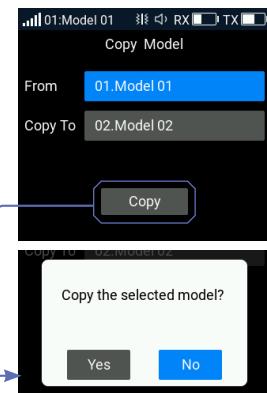


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Copy Model

Used to copy the current model to the target model group.

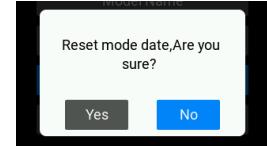
Select the model to be copied and the target model as needed, then select [Copy], and a prompt window will appear. Then select "Yes" in the prompt window to switch successfully.



Model Reset

Used to reset all model data for the current model. The binding information will not be reset.

Select [Model Reset], and a prompt window will appear. Then select "Yes" in the prompt window to reset successfully.



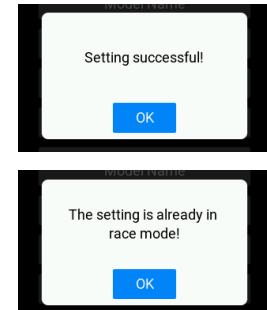
Set As Race Mode

Note: This feature was added in version 2.2.4.

This function is used to quickly disable the [Low signal alarm] and [Telemetry loss] alarm, effectively turning off the signal-related alarms. It is recommended to use this function to disable the [Low signal alarm] and [Telemetry loss] before a race; after the race, you can decide whether to re-enable these two alarm functions based on the actual usage scenario.

Setup:

1. Enter the [Model] interface;
2. Select [Set as race mode], and the system will pop up a message indicating the setting is successful, meaning the relevant alarms have been disabled; tap [OK] to close the pop-up window.
 - If you select [Set as race mode] again, a pop-up message will indicate that the system is already in race mode; select [OK] to close the pop-up window.



Note: When the receiver is not in communication with the transmitter, if the [Set as race mode] is selected, the RF Standard will automatically be adjusted to [ANT 1 WAY], and at the same time, the RF system will switch to [Routine]; When the receiver is in one-way communication with the transmitter, if the [Set as race mode] is selected, the RF system will switch to [Routine].



Radio Frequency Setup

Note: This feature was added in version 2.2.4.

Configure the On/Off status of the built-in RF module and the operating state of the external RF module.

[External RF]: Used to select an appropriate RF type as per the communication protocol of the receiver bound with the transmitter, it can be switched to FRM303, PPM, S.BUS, or CRSF.

FRM303 adopts AFHDS 3 protocol and is compatible with classic edition and enhanced edition receivers; PPM for RF module that use the PPM protocol; S.BUS for RF module that use the S.BUS protocol; CRSF for RF module that use the CRSF protocol.

Note: When using an external RF module, the transmitter supports a maximum configurable channel count of 11 channels.

FRM303 RF Module

When the FRM303 RF module is used, you can utilize this function to set the RF type to FRM303. After setting, the RF buzzer alarm can be enabled or disabled in the FRM303 RF settings interface. Once the buzzer is enabled, the alarm will sound in cases of low signal or low voltage, as well as when the temperature is too high or too low. Additionally, three power versions are supported: the non-adjustable version, the 25mW to 1W version, and the 25mW to 2W version.

WARNING: This transmitter cannot power the FRM303 RF module - a separate power supply is required.

FRM303 RF Module Operating Instructions:

1. For transmitter setup, first configure the [DSC Setup] to "External RF", then connect the RF module using a dedicated cable with a 3.5mm audio jack on one end and signal interface on the other.
 - If a compatible cable isn't available, you can modify a standard 3.5mm male-to-male audio cable by keeping one end intact, cutting the other end to expose three wires, and connecting them to the corresponding PPM, UART and GND ports on the FS-XC505 adapter.
2. On the RF module side, configure the input signal protocol to 1.5M UART (open-source protocol).

The setup method is as follows:

- I. To enter the input signal setup state, power on the FRM303 RF module while pushing and holding the FRM303 five-way button upward for more than 3 seconds but less than 9 seconds. At this point, the LED will turn blue.
- II. Push the Up key upwards or push the Down button downwards to switch the input signal. When the LED operates in a four-flash-one-off mode repeatedly, it indicates that the correct protocol has been matched.
- III. Press and hold the Center key for 3 seconds to save the settings.
- IV. Push the Left key leftwards to exit the signal setup state.

The FRM303 blue slow flashing indicates successful signal source matching.

Note: Refer to the FRM303 manual for more information.



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1) Buzzer Alarm

To enable or disable the buzzer alarm, the alarm function triggers under the following conditions: when the temperature of the RF module is too high, when the external power supply voltage is too low, or when the signal is low.

Setup:

1. Select [External RF]>[FRM303];
2. Select [Buzzer Alarm]>[ON] or [OFF], then short press the Middle button to save the settings.

Note: The External RF type is set to FRM303, the RF temperature and external RF voltage can be got. The obtained data can be set to alarm via **Sensor > Sensors Set > Alarm**.

2) Power

The power adjustment interface varies depending on the different adjustable versions. Note that the power supply mode of the FRM303 RF module also affects the actual output power. That is, if the power setting exceeds the limit range, the maximum power within the limit range will be output. When switching power levels, a pop-up prompt window will appear.

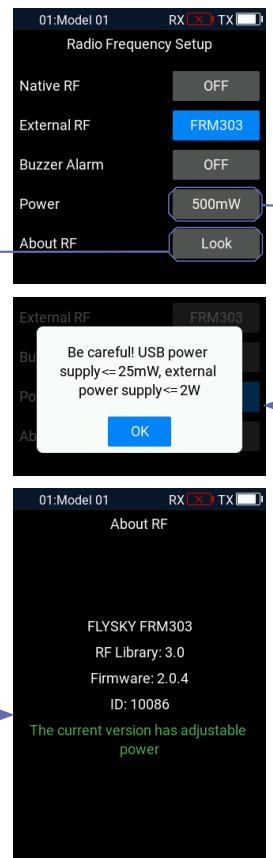
Setup:

1. Select [Power];
2. Select the appropriate power level based on actual usage conditions, then short press the Middle button to save the settings.

Disclaimer: The factory preset transmission power of this product is $\leq 20\text{dBm}$. Please adjust it in accordance your local laws. The consequences of damage caused by improper adjustments shall be borne by the user.

3) About RF

You can view the external RF module information.



PPM Setup

If the RF type is set to PPM, the RF settings interface will display PPM setup options for configuring PPM signal-related parameters.

[Signal polarity] Defaults to positive, meaning a high voltage level is considered an effective signal. If some devices recognize a low voltage level as an effective signal, the signal polarity can be set to negative, meaning a low voltage level is considered an effective signal.

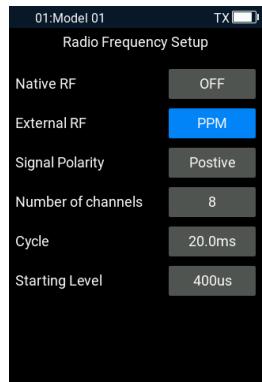
[Number of channels] Used to set the number of channels included in a PPM signal. By default, a PPM signal includes 8 channels, but the number of channels can be adjusted according to specific circumstances.

[Cycle] Refers to the time it takes to transmit a PPM signal. The standard period for an 8-channel PPM signal is 20ms. When using fewer channels, a shorter period can be set to reduce the time required to transmit the signal and thus decrease latency. However, adjusting the period can only shorten the duration of the idle time and does not shorten the duration of the effective signal. Therefore, reducing the period will not decrease the number of signal channels. If the number of channels increases such that the effective signal transmission time exceeds the period, the system will handle the signal with the minimum idle method, and the interface setting value will not change accordingly.

[Starting level] Used to identify the start index time of the PPM signal, with a default of 400us. Appropriate values can be set based on actual conditions, with a setting range of 100us to 700us.

Setup:

1. To configure signal polarity, select the [Signal Polarity] option and choose either positive or negative;
2. Select [Number of channels] and configure the appropriate number of channels, then short press the Middle button to save the settings;
3. Select [Cycle] and configure the appropriate period, then short press the Middle button to save the settings;
4. Select [Starting level] and configure the appropriate value, then short press the Middle button to save the settings.



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6.18 RX SET With INT RF

The **RX SET** support multiple functions for setting up the receiving system. They are [Failsafe], [Bind Set], [i-BUS Set], and [ESC Set].

6.18.1 Failsafe

Note: This feature was updated in version 2.2.4.

The failsafe function is used when the receiver loses radio signal and is out-of-control. The receiver performs channel output according to the set failsafe value to protect the safety of the model and personnel.

Judgment Time

Used to set the failsafe judgment time, the setting range is from 250ms to 1000ms. The default is 300ms.

Setup:

Select [Judgment Time], set the appropriate time, then short press the Middle button to save the settings.

For i-BUS/PPM/PWM signal. It can be set to No Set, No Output or With Output.

No Set: The failsafe has not been set, and there is no output in case of out-of-control.

No Output: It is no output for i-BUS/PPM/PWM channel.

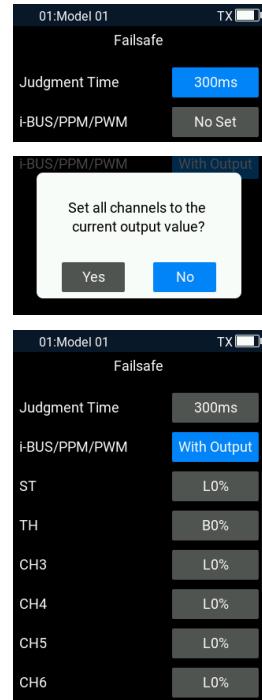
With Output: i-BUS/PPM/PWM channel output respectively the set value. Namely, you can set a value respectively for each channel from 1 to 11. By default, this value is the reading of current channel output value.

Setup:

1. Enter the function interface through the Home > Main Menu > RX Set > Failsafe. Short press the Middle button, and the function item will start flashing.
2. Select With Output, short press the Middle button, and the system will pop up a prompt interface, then adjust the corresponding controls to the desired positions and hold them if needed. Select Yes on the pop-up prompt interface, and short press the Middle button again.
3. To set an individual channel, select the channel to be set, short press the Middle button, and the function item will flash.
4. Select the appropriate value or adjust the corresponding control to the desired position and hold it. Short press the Middle button to save the settings.

Notes:

1. Because the S.BUS signal information contains failsafe flag bits, the failsafe information can be transmitted to the subsequent devices by the failsafe flag bits rather than by No Output state. The subsequent devices gives response according to the analysed information for the failsafe flag bits.
2. For the signal PWM/PPM/i-BUS without failsafe flag bits, it supports the setting of the output signal to OFF in case of failsafe, transmitting the failsafe information to the subsequent devices by No Output state.
3. It is No Set by default, then the receiver will not output when RC signal is lost.



6.18.2 Bind Set

For specific binding guidelines, see section [4.2 Binding].



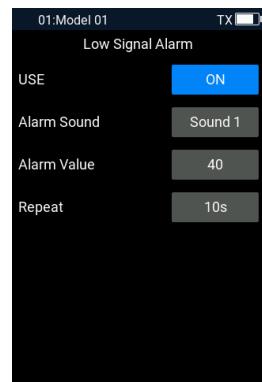
6.18.3 Low Signal Alarm

Note: This feature was added in version 2.2.4.

This feature is used to configure the alarm function for signal strength when the transmitter and receiver communicate in two-way mode.

You can set a specific alarm threshold for signal strength, enable or disable repeated alarms, and adjust the time interval for repeated alarms. Additionally, you can select the type of alarm sound.

Once the low signal alarm function is enabled, the transmitter will trigger a low signal alarm according to the configured settings when the receiver's signal strength falls below the set threshold.



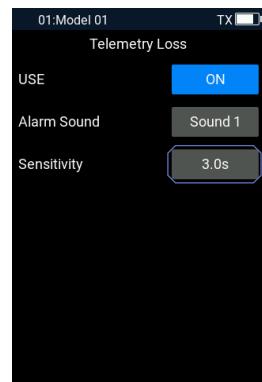
Setup:

1. Select [USE]>[ON] or [OFF];
2. Select [Alarm Sound], configure the desired sound effect, then short press the Middle button to save the settings.
3. Select [Alarm Value], configure the alarm threshold for signal strength, then short press the Middle button to save the settings.
4. Select [Repeat], set the desired alarm repeat interval, then short press the Middle button to save the settings.

6.18.4 Telemetry Loss Alarm

Note: This feature was added in version 2.2.4.

Used to set the alarm function when the transmitter does not receive the information returned by the receiver. You can configure whether to enable the signal loss alarm, the alarm sound, and the trigger time for the alarm (Sensitivity).



Setup:

1. Select [USE]>[ON] or [OFF];
2. Select [Alarm Sound], configure the desired sound effect, then short press the Middle button to save the settings.
3. Select [Sensitivity], configure the appropriate trigger time, then short press the Middle button to save the settings.

It is used to indicate how long the telemetry must be lost before the alarm is triggered. Note that if the connection is interrupted and then restored within the sensitivity time duration, the alarm will not be triggered.



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6.18.5 i-BUS Set

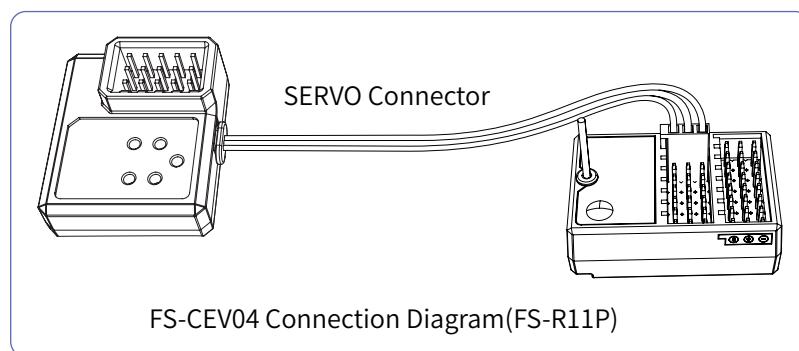
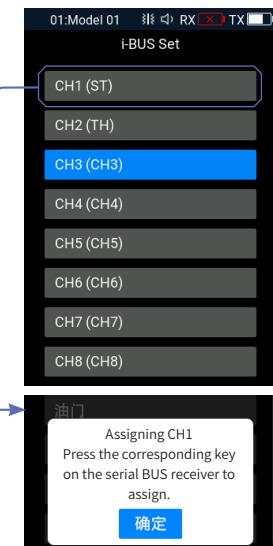
This function is used to set up the i-BUS expansion module.

The i-BUS function is mainly used for servo expansion. If a cable is too short or the number of servos exceeds the outputs for the receiver, the i-BUS serial bus receiver provides a convenient option for expansion. When using the i-BUS serial bus receiver, make sure that it is powered separately to ensure that servos have sufficient power.

This function only becomes active when [Output] in [Bind Set] is set to i-BUS and [RF Standard] is set to [ANT 2 Way].

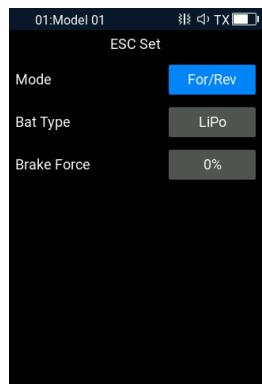
Setup:

1. Transmitter is in two-way communication with the receiver;
2. Connect the FS-CEV04 to the SERVO connector of the receiver;
3. Select [i-BUS Set] to enter the setting interfaces;
4. Select the channel to be assigned, and a prompt window will appear;
5. Use the appropriate tool to press the K1, K2, K3 or K4 button on the FS-CEV04 to assign the selected channel to C1, C2, C3 or C4;
6. After successful assignment, the prompt window will be displayed on the interface; then short press the Middle button to exit;
7. Repeat the above steps as needed.



6.18.6 ESC Set

Used to set the ESC parameters of the 2-in-1 receiver. This function only becomes active when [RF Standard] is set to [ANT 2 Way]. You can set [Mode], [Bat Type] and [Brake Force].



Mode

For/Rev/Brk (Forward/Reverse/Brake): When the throttle trigger is pulled back and then quickly pushed forward, the motor will only brake and will not produce a reverse action. When the throttle trigger is returned to the neutral zone and pushed into the reverse zone, a reverse action will be generated. This mode is applicable to general models.

For/Rev (Forward/Reverse): When the throttle trigger is pushed into the reverse zone, the motor will immediately generate a reverse action. This mode is generally applied to rock crawler.

Bat Type

There are LiPo and NiMH cells. It can be set according to the actual use.

Brake Force

The drag brake means that when the throttle trigger moves from the forward or reverse area to neutral range, it will produce certain braking force to the motor, the larger the value is, the greater the drag brake force is. And this is applicable to decelerate into a turn and model crawler applications. You can select four braking forces: 0%, 50%, 75%, and 100%, and set according to the actual situation.

Set the parameters for [Mode], [Bat Type], and [Brake Force] as needed, then press the middle button to save the settings.



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6.19 RX SET With EXT RF (FRM303 RF MODULE)

Note: This feature was added in version 2.2.4.

Before using the FRM303 RF module, please complete its configuration by referring to [6.17 Model].

The settings for the receiving system includes: [Failsafe], [Bind Set], [RX Interface Protocol], [Frequency], [i-BUS Set], [Low Signal Alarm], [Telemetry Loss] and [RSSI Output Setup].

6.19.1 Failsafe

For failsafe, the transmitter provides the following three settings:

- To disable the signal output of i-BUS-out and PPM protocol interfaces in case of out-of-control, i.e., no output for i-BUS-out & PPM interfaces in case of out-of-control.
- Set all channels. That is, all channels are set to the current output value in case of out-of-control.
- Set failsafe values channel by channel to one of [No Output], [Hold] or [Fixed Value].

i-BUS out/PPM

This function is for i-BUS and PPM signals. After the i-BUS-out/PPM function is enabled, regardless of the setting of the failsafe, these two types of failsafe signals are always no output. Set to [With output], and output according to the set values of each channel after out-of-control.

Set All Fixed-Value Channel (SAFV Channels)

Used to set the output values of all fixed-value channels that have been set to a fixed value in case of out-of-control.

Setup:

Configure all channels to maintain preset failsafe positions, select [OK], a pop-up window will be displayed by the system, and then select [Yes] to save the settings.

Set ST(CH1)~ CH11

To set the output signal of CH1 to CH11, it can be set to [No Output], [Hold] or [Fixed Value].

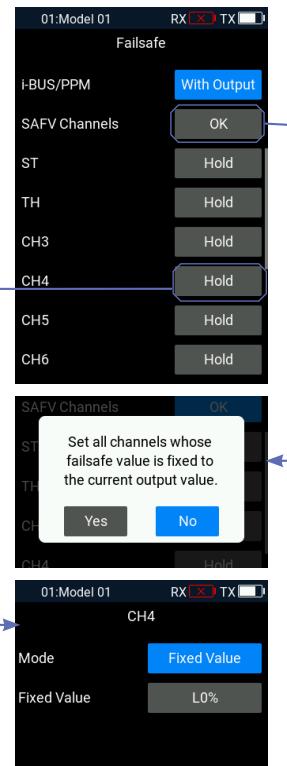
[No Output]: Means that there is no output in case of out-of-control.

[Hold]: Means the last channel value is kept in case of out-of-control.

[Fixed Value] : Means that you can set the failsafe output value by moving the control, then the value set will output in case of out-of-control.

Setup:

1. Select the appropriate channel to enter the setup interface.
2. Set the desired channel failsafe values, then short press the Middle button to save the settings.



6.19.2 Bind Set

After the FRM303 RF module is connected to the FS-G11P transmitter, it can be bound with the FlySky AFHDS 3 receiver (classic edition and enhanced edition).

If binding with the classic edition receiver, RF system can choose [Classic 18ch] or [C-Fast 10ch]. And for the enhanced edition receiver, [Routine 18ch], [Fast 8ch] or [Lora 12ch] can be selected.

[Classic 18ch]: To bind with classic edition receiver with supporting 18-channels.

[C-Fast 10ch]: To bind with classic edition receiver with supporting 10-channels. And its latency is better than Classic 18ch.

[Routine 18ch]: To bind with enhanced edition receiver with moderate communication distance, and support 18-channels.

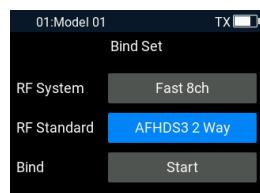
[Lora 12ch]: To bind with enhanced edition receiver with super anti-interference and moderate communication distance, and support 12-channels.

[Fast 8ch]: To bind with the enhanced edition receiver for faster communication speed over a shorter range with 8 channels.

The RF standard can be set to [AFHDS3 1 Way] or [AFHDS3 2 Way] based on the actual application scenario.

Setup:

1. Select [Bind Set] to enter the setup interface.
2. Select [RF System], set the appropriate function item.
3. Select [RF Standard], set 1 Way or 2 Way.
4. Select [Start], and the transmitter will enter the binding state.
 - If [RF Standard] is set to one-way, the receiver LED will flash slowly. Exit the transmitter from the binding state when the receiver LED is constantly on, indicating successful binding.
5. When the receiver LED is constantly on, it indicates successful binding.
6. Check whether the transmitter and receiver are working properly. If not, repeat the above steps.



Switch to Enhanced Edition Prompt Interface:



Switch to Classic Edition Prompt Interface:



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6.19.3 RX Interface Protocol

Set the type of output signal of the receiver interface.

For enhanced edition receiver: When no receiver is connected, 4 Newport interfaces are displayed by default for setting; When a receiver is connected, the Newport interfaces that can be set on this receiver are displayed, you can set the protocol to PWM, PPM, S.BUS, i-BUS in or i-BUS out.

For classic edition receiver: When no receiver is connected, i-BUS and CH1 are displayed by default; When a receiver is connected, the interface that can be set are displayed.

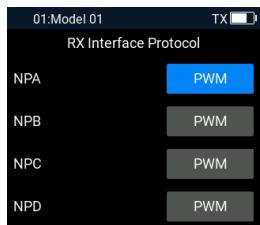
Setup:

1. Select [RX Interface Protocol] to enter the setup interface.
2. Select the target interface, then set the appropriate output signal type.
3. Short press the Middle button to save the settings.

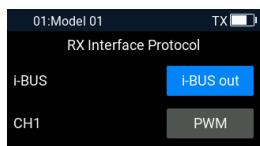
Notes:

1. The signal types that can be selected once only in multiple for any Newport: PPM, S.BUS, i-BUS in and i-BUS out. If it is selected for NPA, i-BUS out cannot be selected again for NPD/NPC/NPB.
2. If the interface protocol is set to i-BUS in, it can be used to connect the i-BUS sensors.
3. If the interface protocol is set to i-BUS out, it supports i-BUS signal output, the FS-CEV04 serial BUS receiver can be connected as well.
4. The Newport interface of the enhanced receiver is abbreviated NPA, NPB, NPC, and NPD. And the enhanced receiver supports up to 4 Newport interfaces.

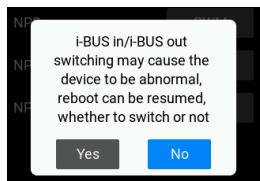
Enhanced Edition Interface:



Classic Edition Interface:



When switching to either "i-BUS out" or "i-BUS in" signal, the system will display a pop-up window.



6.19.4 Frequency

The receiver's output frequency of PWM signals can be regulated. Theoretically, the higher the frequency, the faster the signal is refreshed, and the faster the servo responds to the signal change. However, some servos may not support PWM signals with excessively high frequency. You may need to take into account the servo's performance when doing such settings.

The interface of this function may vary with bind modes. For enhanced edition receivers, the PWM frequency of each channel can be set separately, and the options include Analog Servo (95Hz), Digital Servo (380 Hz), SR (833 Hz), SFR (1000 Hz) , Custom and [Sync With RF].

Note: When SR (PWM frequency: 833 Hz) and SFR (PWM frequency: 1000 Hz) are selected, the overall system delay will be decreased, but the pulse range of PWM signals is changed. Please make sure the servo supported the corresponding frequency is a digital servo and the setting is correct. Otherwise the servo may not work properly, or even get damaged.

If a classic receiver is bound, all channels are set together, and the options include Analog Servo (95Hz), Digital Servo (380 Hz) and Custom.

Set All Channels

All channels are set to the same frequency value.

Setup:

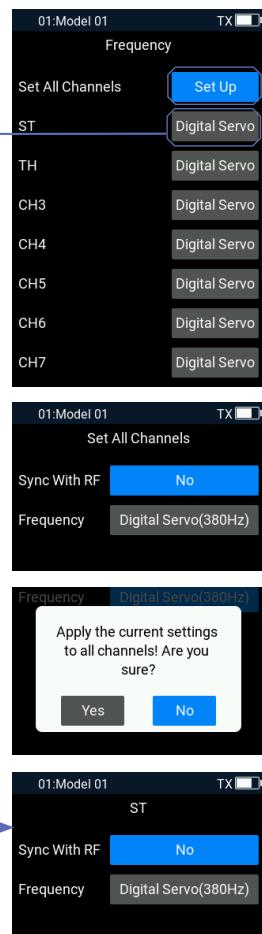
1. Select [Frequency] to enter the setup interface.
2. Select [Set All Channels] to enter the setup interface, set the desired [Sync With RF] 和 [Frequency];
 - If [Frequency] is set to [Custom], you may short press the up or down button to adjust the frequency.
3. Short press the POWER button to return – the system will display a confirmation prompt; select [Yes] to proceed.

Set ST(CH1)~ CH11

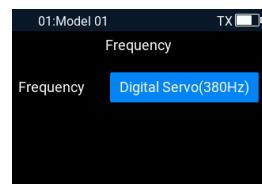
To set the PWM frequency of CH1 to CH11 separately.

For function configuration, please follow Steps 1-2 in the [Set All Channels] procedure.

Enhanced Edition Interface:



Classic Edition Interface:



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6.19.5 i-BUS Set

This function is used to set up the i-BUS expansion module.

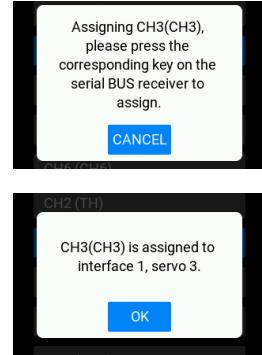
The i-BUS function is mainly used for servo expansion. If a cable is too short or the number of servos exceeds the outputs for the receiver, the i-BUS serial bus receiver provides a convenient option for expansion. When using the i-BUS serial bus receiver, make sure that it is powered separately to ensure that servos have sufficient power.

This function only becomes active when [RF Standard] in [Bind Set] is set to [Classic 2 Way] and [RX Interface Protocol] is set to [i-BUS OUT].

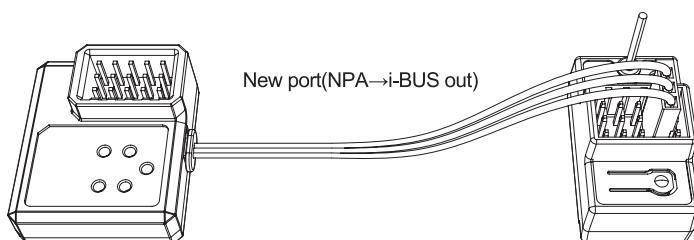


Setup:

1. The transmitter is in two-way communication with the receiver;
2. Connect the FS-CEV04 to the "i-BUS out" signal interface of the receiver.
3. Select [i-BUS Set] to enter the setting interfaces.
4. Select the channel to be assigned, and a prompt window will appear.
5. Use the appropriate tool to press the K1, K2, K3 or K4 button on the FS-CEV04 to assign the selected channel to C1, C2, C3 or C4;
6. After successful assignment, the prompt window will be displayed on the interface; then short press the Middle button to exit;
7. Repeat the above steps as needed.



Connection Example: The FS-CEV04 is designed to operate with the FGr4B receiver (other AFHDS3 receivers follow the same connection method).



6.19.6 Low Signal Alarm

For this function, please refer to [6.18.3 Low Signal Alarm].



6.19.7 Telemetry Loss Alarm

For this function, please refer to [6.18.4 Telemetry Loss Alarm].

6.19.8 RSSI Output Setup

Through this function, you can select a channel to output the signal strength value of the receiver. Once the function is enabled, the selected channel does not perform the output of transmitter's corresponding channel function, instead, it will output the receiver's signal strength value. This function is necessary for users who operate traversers with FPV glasses. We recommend selecting CH14 or any auxiliary channel for this purpose. You can make corresponding adaptations in the flight control settings to view the signal strength information on your FPV glasses.

Setup:

1. Select [RSSI Output Setup] to enter the setup interface.
2. Select [State] > [ON] or [OFF].
3. Select [Output Channel] and configure the appropriate channel.



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6.20 System

Used to set the system parameters.

6.20.1 set up

Bat Type

You can set the battery type for the transmitter's power supply, there are [18650]、[2S LiPo] and [Other].

When the system is in a low voltage state, it will give an alarm. Avoid accidents caused by long-term operation under low voltage.

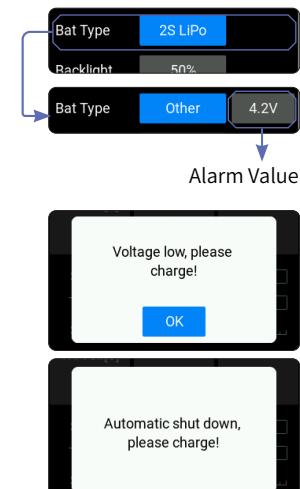
If the battery type is selected as 18650 or 2S LiPo, the system will enter a low voltage state when the battery voltage lower than 7.2V.

Battery voltage (BATT) alarm reference values are as follows:

- When the voltage is lower than 7.2V but at least 7.0V, the interface displays "Voltage low,please charge!"
- When the voltage is lower than 7.0V but at least 6.8V, the interface displays "Automatic shut down, please charge!"

Setup:

1. Select [Bat Type]>[2S LiPo], [18650] or [Other];
 - If you select [Other], you can set the alarm value according to the user manual of the battery you are using.
2. Then short press the Middle button to save the settings.



Backlight

Used to set the backlight of the transmitter.

The adjustment range is 10%~100%.

Note: Turning the brightness up will use more power and as such, the longer the Backlight timeout, the more power consumption, the shorter the battery using time.



Setup:

1. Select [Backlight];
2. Change the percentage as needed;
3. Then short press the Middle button to save the settings.



B/L Delay

Set the screen brightness duration when there is no operation on other controls (except for the steering wheel and trigger).

When the set time is exceeded, the display screen will turn off. At this point, operating the Five-Way switch, the POWER button, or any assigned shortcut keys will cause the screen to light up again.

You can select [5s], [10s], [30s], [1m], [2m], [5m], [10m], [5m], and [ON]. The default setting is [30s].

Setup:

1. Select [B/L Delay];
2. Select the corresponding backlight delay item;
3. Then short press the Middle button to save the settings.

| | |
|------------|-------|
| Backlight | 50% |
| B/L Delay | 30s |
| Idle Alarm | Close |

Idle alarm

Set whether to enable idle alarm reminders and the alarm time.

You can select [3m], [5m], [10m], [20m], and [Close]. The default setting is [3m].

Setup:

1. Select [Idle alarm];
2. Select the corresponding Idle alarm time;
3. Then short press the Middle button to save the settings.

| | |
|------------|-------|
| B/L Delay | ON |
| Idle Alarm | Close |
| Auto Off | Close |

Auto Off

Set whether to enable Auto Off function and the Auto Off time.

Once this function is activated, if there is no operation on the transmitter and no two-way communication with the receiver within the set time, the transmitter will automatically shut down.

You can select [3m], [5m], [10m], [30m], and [Close]. The default setting is [5m].

Setup:

1. Select [Auto Off];
2. Select the corresponding Auto Off time;
3. Then short press the Middle button to save the settings.

| | |
|------------|------------|
| Idle Alarm | Close |
| Auto Off | 5m |
| Home 1 | CH Monitor |



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Home 1

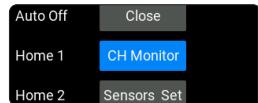
Refer to [5. System Interface] for function setup.

Home 2

Refer to [5. System Interface] for function setup.

Up Light

You can set whether to turn off upper ambient lights, indicate battery level, as well as set the colors and brightness levels of the upper ambient lights.



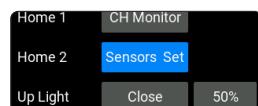
- Battery indicator: When the light is in green, it indicates that the battery voltage is greater than or equal to the alarm value; otherwise, it will be in red.
- Ambient light color: Red, Green, Blue, Yellow, Cyan, Purple or Dazzle optional.
- Brightness level: default to be 50%, and can be adjusted within the range of 0~100%.

Setup:

1. On the Home interface, short press the Middle button to enter the Main Menu.
2. Short press the Left/Down button to select System, and short press the Middle button to enter the system settings interface.
3. Select Set Up > Up Light, and the function item will begin to flash.
4. Short press the UP or Down button to select the appropriate function item, and then short press the Middle button.
5. Short press the POWER button to return to the previous interface.

Down Light

Set the colors and brightness levels of the lower ambient lights. The functions and settings are the same as the upper ambient lights, refer to the description of Upper Ambient Lights.



Sound

Set the volume level and type of the speaker sound.

Volume level setting range: 0~100%

You can set [SYS/ALM], [System], [Alarm] and [Close]. The default setting is [SYS/ALM]. When the sound type is set to [Close], the sound icon will not be displayed in the function status area of the main interface.

Setup:

1. Select [set up]>[Sound];
2. Select the corresponding sound type;
3. Set the volume level as needed;
4. Then short press the Middle button to save the settings.

| | | |
|------------|---------|-----|
| Down Light | Close | 50% |
| Sound | SYS/ALM | 50% |
| Vibration | SYS/ALM | 50% |

Vibration

Set the intensity level and type of the vibration motor.

Intensity level setting range: 0~100%

You can set [SYS/ALM], [System], [Alarm] and [Close]. The default setting is [SYS/ALM]. When the vibration type is set to [Close], the vibration icon will not be displayed in the function status area of the main interface.

Refer to Sound for function setup.

| | | |
|-----------|---------|---------|
| Sound | SYS/ALM | 50% |
| Vibration | SYS/ALM | 50% |
| Units | Metric | Celsius |

Units

Choose what units to use for length and temperature.

Unit of length: Select between metric and imperial system. The default is Metric.

Unit of temperature: It can be selected in Celsius and Fahrenheit. The default is Celsius.

Setup:

1. Select [set up]>[Units];
2. Select the corresponding unit of length or unit of temperature;
3. Then short press the Middle button to save the settings.

| | | |
|-----------|---------|---------|
| Sound | SYS/ALM | 50% |
| Vibration | SYS/ALM | 50% |
| Units | Metric | Celsius |

6.20.2 Stick Calibration

Refer to [4.4 Stick Calibration] for function setup.



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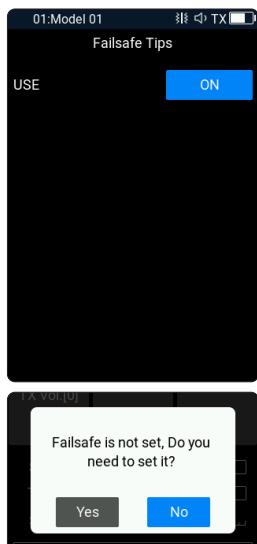
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6.20.3 Failsafe Tips

Used to enable or disable the failsafe prompt window when the transmitter turns on. When failsafe for all channels are in [Not set] status, then a pop-up window will prompt that failsafe has not been set after the transmitter is turned on.

Setup:

1. Select [Failsafe Tips] to enter the setting interface;
2. Select [USE]>[ON] or [OFF];
3. Then short press the Middle button to save the settings.



6.20.4 Lock Setup

Note: This feature was added in version 2.2.4.

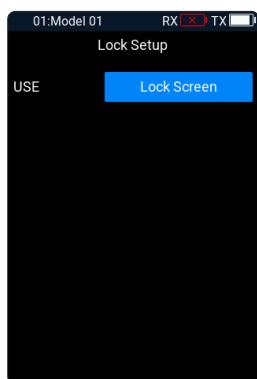
This function configures whether the transmitter controls remain operational after the main screen is locked. It can prevent accidental adjustment of a control due to personal reasons or unauthorized operation by others, thereby avoiding unintended changes to setting parameters or channel data.

[Lock Setup]: Operation of the five-way switch (Menu Navigation Button) and K-type buttons (K1–K7) with functions assigned via [Quick Setup] will be disabled.

[Lock Trim]: Operation of trims (TR1–TR4), the five-way switch (Menu Navigation Button), and K-type buttons (K1–K7) will be disabled.

[Channels]: Only controls assigned as control channels will be operational.

[ST+TH]: Only the steering wheel and throttle trigger are operational.



Setup:

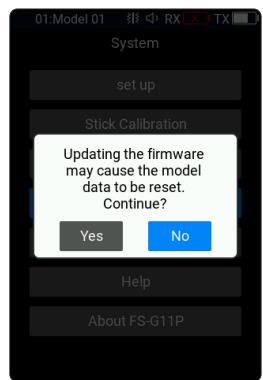
1. Select [Lock Setup] to enter the setting interface;
2. Select the appropriate function item;
3. Then short press the Middle button to save the settings.



6.20.5 TX Firmware Update

To put the transmitter into updating state. In case of updating the firmware of the transmitter, use this function to put the transmitter into updating mode first, then upgrade the transmitter's firmware.

| | |
|------------------|---|
| ⚠ Warning | <ul style="list-style-type: none">• Use the USB Type-C cable shipped with the transmitter.• Do not unplug the USB Type-C cable while the firmware is updating. |
|------------------|---|



Setup:

1. Download and open the latest official firmware.
2. Connect the transmitter to the computer via the USB Type-C cable.
3. Go to Home > Main Menu > System, and select TX Firmware Update, then short press the Middle button, a prompt screen will pop up, then select Yes, and short press the Middle button to enter updating state.
4. After completing the above steps, click Update in firmware window on the computer to start the update.
5. The transmitter will power on again when the updating process is finished. Then remove the USB Type-C cable and close the firmware.

The firmware of the transmitter can also be updated by FlyskyAssistant. In such case, just make sure the transmitter is turned on and connected to the computer.

Note: The model data will be reset after the firmware update. Back up the model data before you perform firmware updating.



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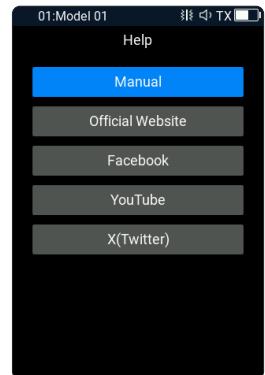
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6.20.6 Factory Reset

Refer to [4.5 Factory Reset] for function setup.

6.20.7 Help

Under this function interface, it provides the product's manual, as well as the official website, facebook, YouTube and X(Twitter). Users can choose the corresponding QR code as needed and scan it to view the information.



6.20.8 About FS-G11P

This function contains basic information such as product name, firmware version, version date, hardware and RF library version.

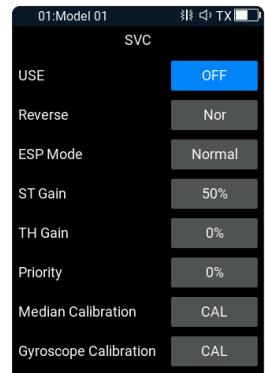


6.21 SVC

The receivers configured with this function is FS-R7V. The function interface becomes accessible immediately after successful two-way binding between the transmitter and receiver.

Assign K/SW controls to quickly enable/disable the function.

The [ST Gain], [TH Gain] and [Priority] can be quickly adjusted by assigning VR/ TR controls.



USE

Enable or disable the SVC function.

Reverse

You can set the direction when the gyroscope mixes with the steering channel.

ESP Mode

Used for model assisted stability. Two modes are available: normal/ lock.

[Normal]: When the vehicle is yawing or steering, the gyroscope automatically provides an opposite compensation to control the servo to keep it stable or prevent drifting according to the angular velocity generated.

[Lock]: If the steering wheel is return-to-center, the gyroscope will control the servo in the opposite direction according to the yaw angle when the vehicle is yawing, to make it go back to the expected direction (if the steering wheel is not return-to-center in the "Lock mode", it will be the same as the "Normal mode").

ST Gain

Used to change the sensitivity of the mixing steering channel. The setting range is 0~100%, with a default of 50%.

TH Gain

Used to change the sensitivity of the mixing throttle channel. The setting range is 0~100%, with a default of 50%.



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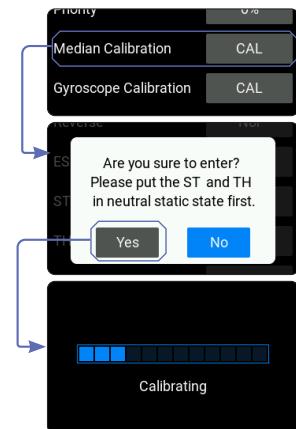
Priority

Used to set the control ratio between steering wheel control and gyroscope in the steering, i.e., turning radius. In direction turning by using the steering wheel, the steering angle will be reduced due to the influence of gyroscope mixing. When the value is 0%, the mixing control is the strongest, that is, the turning radius is the largest. When the value is 100%, the mixing control is 0, that is, the turning radius is the smallest.

Median Calibration

Used for gyroscope to calibrate steering and throttle neutral to make the best driving condition when the vehicle is driving normally.

Before enabling the SVC function, you need to adjust the vehicle's steering servo volume, neutral trim and throttle neutral to the best driving condition. After completion, start the [SVC] function for neutral calibration. Every time you change the trim or throttle curve, you need to calibrate the neutral position. The steering throttle should be placed in the neutral stationary state during the calibration process.

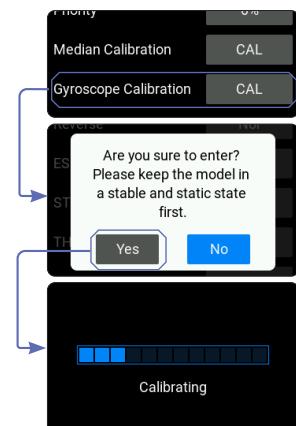


Gyroscope Calibration

Used for the first time to enable the gyroscope via binding or gyroscope calibration required after replacement. The model keeps a stable and stationary state. Select [Gyroscope Calibration]. The LED of the receiver will be in two- flash-one-off state and exits automatically. This indicates that the calibration is successful.

Setup:

1. Use the transmitter to perform a two-way binding with an ANT receiver that has gyroscope function;
2. Select [USE]>[ON] or [OFF];
3. Select [Reverse]>[Nor] or [Rev];
4. Select [ESP Mode]>[Normal] or [Lock];
5. Set the percentages for [ST Gain], [TH Gain], and [Priority] respectively;
6. Then, refer to the descriptions of [Median Calibration] and [Gyroscope Calibration] mentioned above to perform the calibration.
 - After successful calibration, the transmitter will automatically exit the calibration interface. If the calibration fails, you will need to manually press the POWER button briefly to exit.

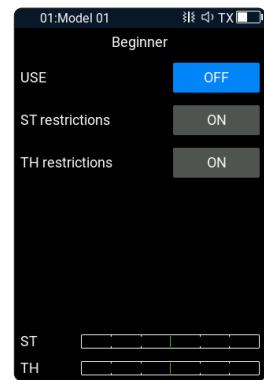


6.22 Beginner

The beginner mode is suitable for entry level players to improve the safety of operations by limiting the amount of throttle servo and steering servo.

USE

This is used to set whether the beginner mode is active. The function is disabled by default.



ST restrictions

This is used to limit the output of the steering channel to half. The function is enabled by default.

TH restrictions

This is used to limit the output of the throttle channel to half. The function is enabled by default.

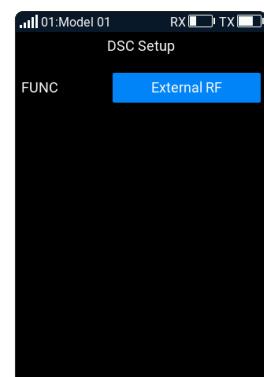
Setup:

1. Select [USE]>[ON] or [OFF];
2. You can enable or disable [ST restrictions] and [TH restrictions] as needed;
3. By operating the corresponding controls, you can view the output status of the steering and throttle channels.

6.23 DSC Setup

Note: This feature was added in version 2.2.4.

The 3.5mm audio jack (DSC) can be configured to output signals for enabling trainer, head tracker, and external RF module functions.



[Trainer]: The interface outputs a PPM signal. To use the trainer function, first set the [DSC Setup] to "Trainer".

[H Track]: The interface outputs a PPM signal. To use the head tracker function, first set the [DSC Setup] to "H Track".

[FRM303]: To use the external RF module FRM303, first set the [DSC Setup] to "External RF".

Setup:

1. Select [DSC Setup] to enter the setting interface;
2. Select the corresponding function item.
3. Then short press the Middle button to save the settings.



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6.24 Trainer

Note: This feature was added in version 2.2.4.

FS-G11P supports two function modes: Trainer and Student. Transmitters set to Trainer accept external signals to control the model, that is, the trainer interface interface has the ability to recognize external PPM signal input. Transmitters set to Student Mode only output PPM signals and do not recognize the input signals. The function is disabled by default, assign K/SW controls to quickly enable/disable the function. Two transmitters (one for Trainer mode and one for Student mode) can be connected via a 3.5mm male-to-male audio cable (requires optional FS-L003 trainer cable) to enable the trainer function.

Notes:

1. Before enabling this function, first configure the [DSC Setup] to "Trainer" mode.
2. When connecting two transmitters via a trainer cable, ensure the cable is properly connected.
3. FS-G11P Trainer Interface of transmitter can adaptively identify the input PPM signals. Most of the devices that support PPM output can be used as the external input signal source of the Trainer Mode. However, some of the devices may not support this function, and you can set up the PPM output of the Trainer Interface to match the external devices that have the special requirement of identifying the PPM signa

When the trainer and student transmitters are properly connected, the relationship between the control switch states for the student and trainer and the actual control source is shown in the table below.

| Trainer Control | Student Control | Actual Control |
|-----------------|-----------------|----------------|
| ON | ON | Trainer |
| ON | OFF | Trainer |
| OFF | ON | Student |
| OFF | OFF | Trainer |

6.24.1 Trainer

When the Trainer Mode is set to Trainer, the transmitter only supports Trainer function at this time.

Note: Normally, the instructor should use Trainer Mode on the transmitter for instruction. To switch to Student Mode, the Trainer Mode must first be turned OFF.

ST (CH1)~CH11

Each channel (Channel 1 to Channel 11) can be individually set to ON or OFF.

Note: The number of channels displayed in the interface depends on the [Channel Number Definition] setting in [Model].



Setup:

1. Select [Trainer] to enter the setting interface;
2. Select [Mode] > [Trainer];
3. Select [USE]>[ON] or [OFF];
4. Select the desired channels (ST ~ CH11) to enable based on your requirements;
5. Then short press the Middle button to save the settings.

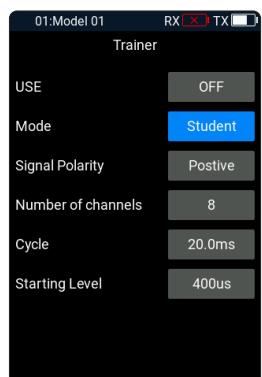


6.24.2 Student

When the trainer mode is set as student, the transmitter supports only functions of student mode. At this time, you can assign the control for the control trainer function, set the PPM signal parameters, such as signal polarity, channel number, period, and start identifier settings, to match the trainer mode transmitter and implement the trainer function application.

Signal Polarity

When Trainer Mode is set to Student, the [Signal Polarity] can be configured. High level is valid by default positive. Some devices may recognize low level as valid signal. At this time, set the signal polarity to negative, that is, low level is valid.



Number of channels

When Trainer Mode is set to Student, the [Number of channels] can be configured. Set the number of channels in a PPM signal. By default, a PPM signal contains 8 channels, the setting range is 4~11, the step is 1.

Cycle

When Trainer Mode is set to Student, the [Cycle] can be configured. Refer to the time of transmitting a PPM signal. The standard 8-channel PPM signal period is 20ms, the setting range is 12.5-45ms, the step is 0.5ms.

When fewer channels are used, a shorter period can be set to shorten the time required to send a signal to reduce latency. However, the setting of the period can only shorten the idle period, instead of effective signal duration. Therefore, the setting of the period will not reduce the number of signal channels. When the number of channels increases and the effective signal sending time is greater than the period, the system will process the signal in the minimum idle mode, and the interface setting value will not be changed accordingly.

Starting Level

When Trainer Mode is set to Student, the [Starting Level] can be configured. The start mark time identifies the PPM signal. The default value is 400us. Set the appropriate value as needed, the range is 100 - 700us, the step is 50us.

Setup:

1. Select [Trainer] to enter the setting interface;
2. Select [Mode] > [Student];
3. Select [USE]>[ON] or [OFF];
4. Select[Signal Polarity] > [Positive] or [Negative];
5. Select [Number of channels], the number of channels can be set as needed;
6. Select [Cycle], the period can be set as needed;
7. Select [Starting Level], the starting identifier time can be set as needed;
8. Then short press the Middle button to save the settings.



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6.25 H Track Set

Note: This feature was added in version 2.2.4.

Configure which channels can be controlled by head tracker.

[USE]: Enable or disable the head tracker function as needed.

CH3 ~CH11: Configure which channels can be controlled by head tracker. The number of channels displayed in the interface depends on the [Channel Number Definition] setting in [Model].

Note: To use this function, first set the [DSC Setup] to "H Track".

Setup:

1. Select [H Track Set] to enter the setting interface;
2. Select [USE], select the desired function, then short press the Middle button to save the settings.
3. Select [CH3], assign the head tracker channel for control (default unassigned), then short press the Middle button to save the settings.
4. Repeat the process (refer to Step 3) to assign additional channels for head tracker control as needed.
5. Test to make sure everything is working as expected.



6.26 Quick Setup

Note: This feature was added in version 2.2.4.

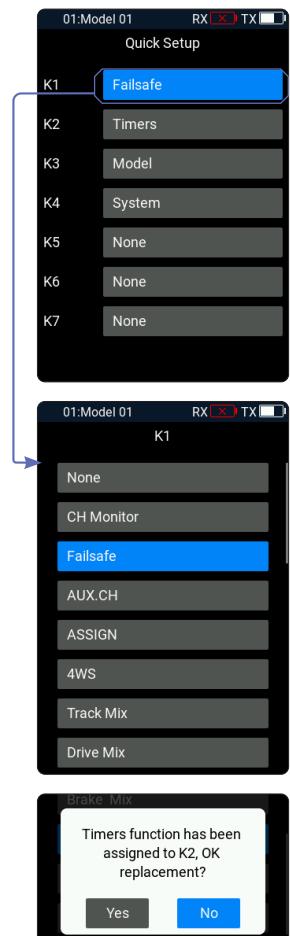
Assign quick-access functions to K1~K7 buttons for instant operation. After configuration, press the designated key to directly activate the assigned function.

The setup process for K2-K7 follows identical procedures as K1.

Setup:

1. Select [Quick Setup] to enter the setting interface;
2. Press the K1 button to enter function assignment interface;
 - If the selected key already has a function assigned in [ASSIGN] or [AUX.CH], a dialog will appear prompting you to confirm ("YES" to replace the original control, "NO" to cancel assignment).
3. Select the desired function, then short press the Middle button to save the settings.
4. Test to make sure everything is working as expected.

Note: Shortcut buttons (K1-K7) will not respond if any dialog box remains open on the current interface.



6.27 CH Monitor

Note: This feature was added in version 2.2.4.

Please refer to [5. System Interface] > [CH Monitor].



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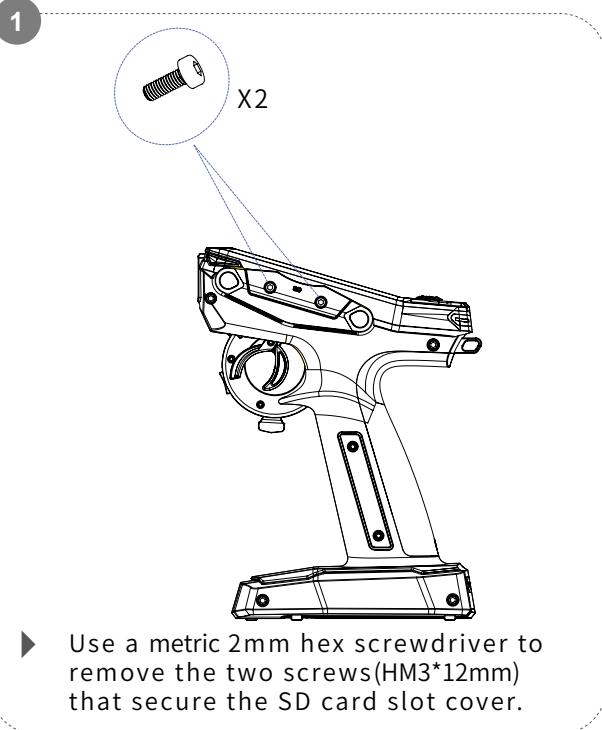


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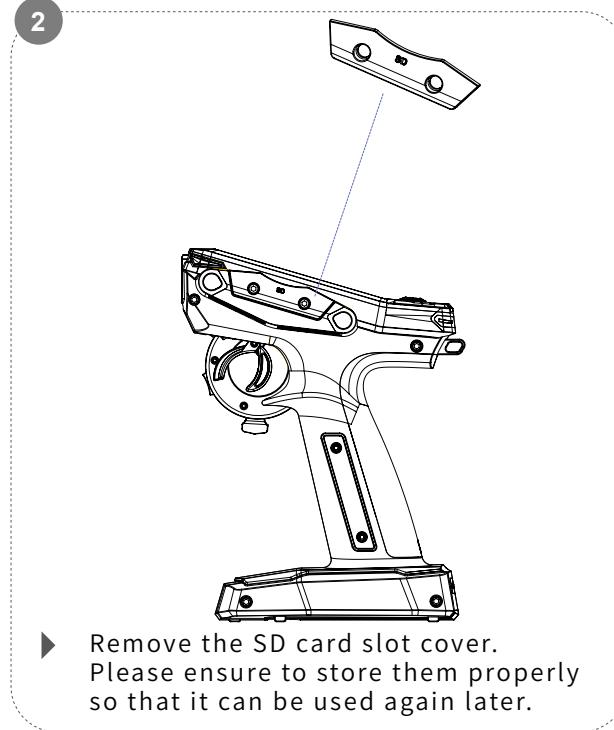
7. User Customization

The device supports user-customized installations such as adding a handle, installing an SD card, replacing the trigger spring, and changing the steering wheel spring as needed.

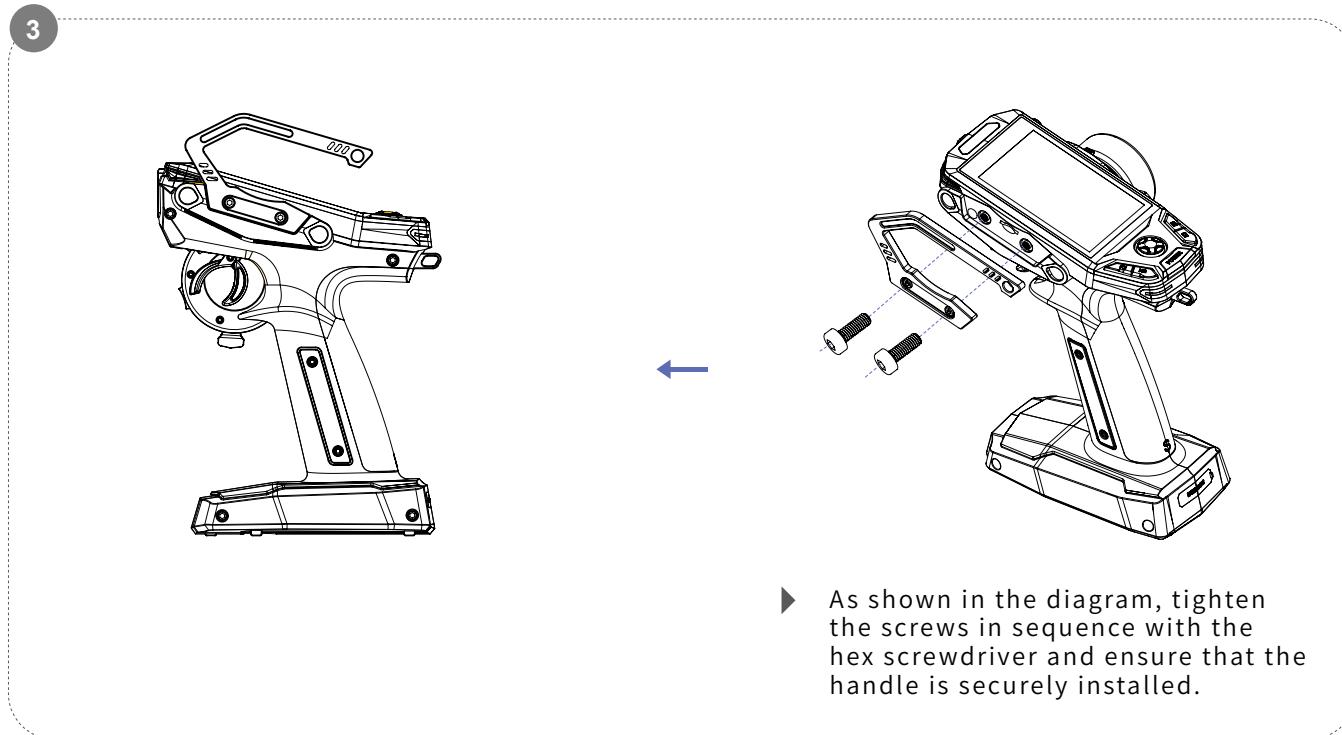
7.1 Installation of handle



- ▶ Use a metric 2mm hex screwdriver to remove the two screws(HM3*12mm) that secure the SD card slot cover.



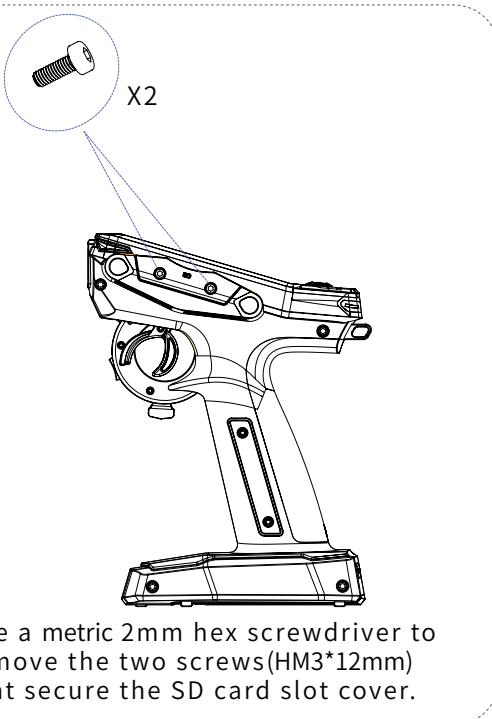
- ▶ Remove the SD card slot cover. Please ensure to store them properly so that it can be used again later.



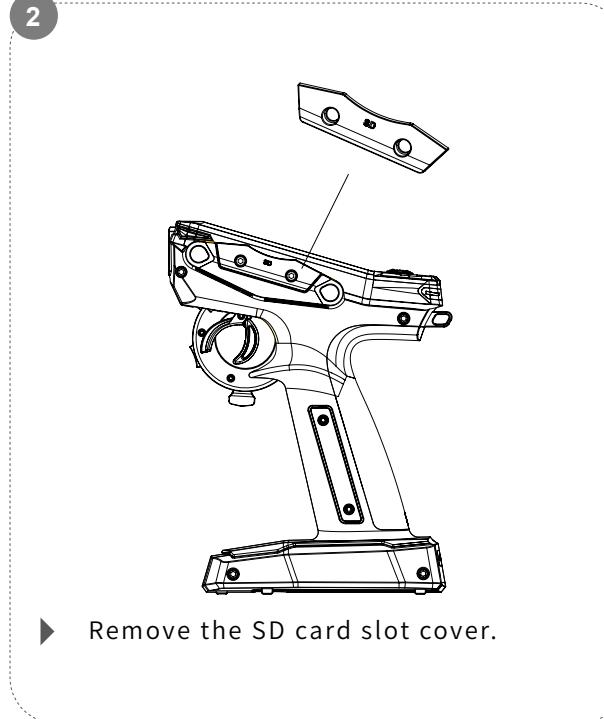
- ▶ As shown in the diagram, tighten the screws in sequence with the hex screwdriver and ensure that the handle is securely installed.



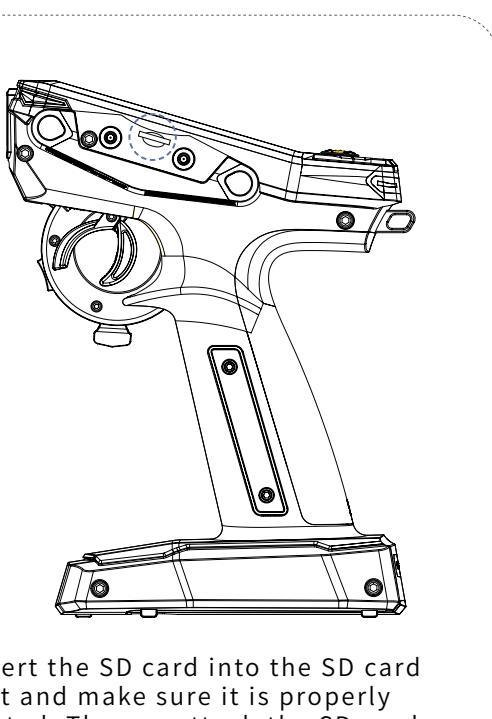
7.2 Installation of SD Card

- 

1

► Use a metric 2mm hex screwdriver to remove the two screws(HM3*12mm) that secure the SD card slot cover.
- 

2

► Remove the SD card slot cover.
- 

3

► Insert the SD card into the SD card slot and make sure it is properly seated. Then, reattach the SD card slot cover and handle.



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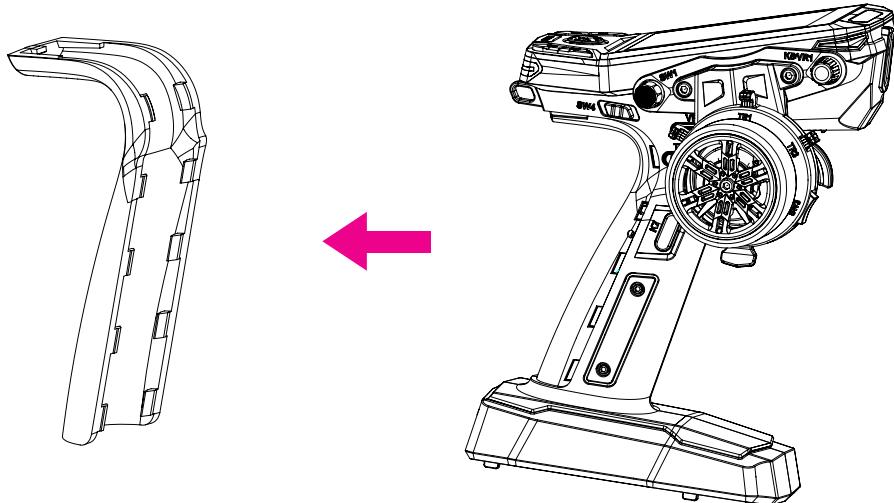
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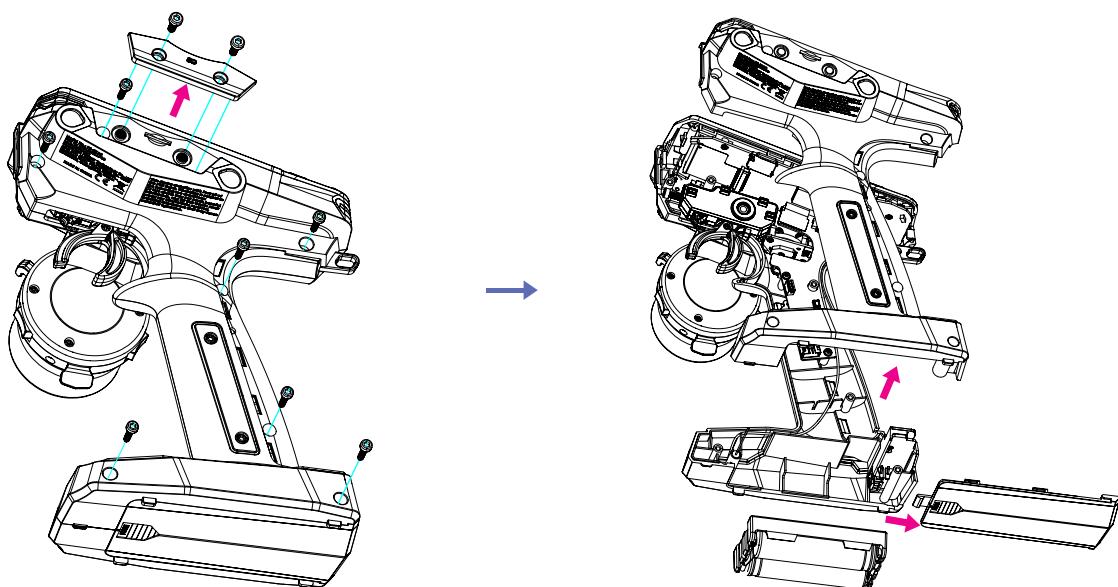
7.3 Trigger Spring Replacement

1



- ▶ Check the positions of the 14 clips, starting from the edge of the hand grip, and then remove all the clips one by one along the edge, remove the whole grip naturally.

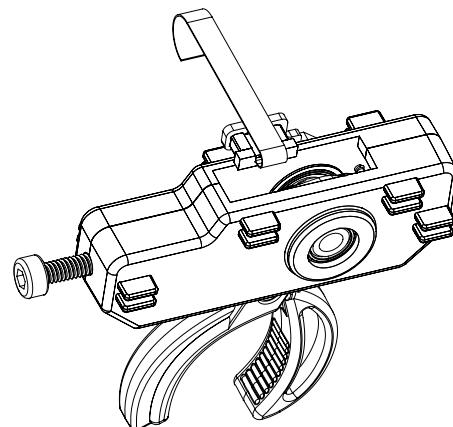
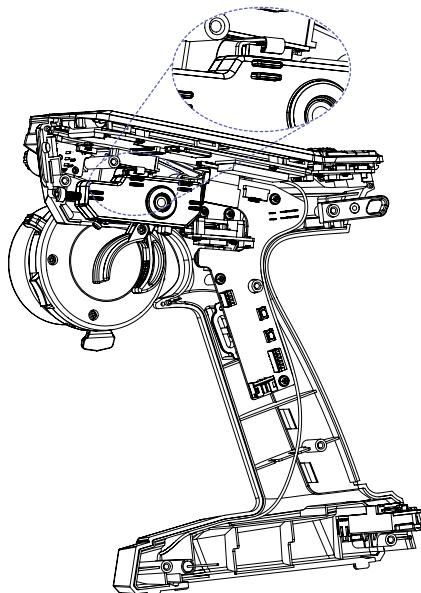
2



- ▶ As shown in the diagram, use a hex screwdriver to remove the screws, and then take off the cover without the steering wheel, the battery compartment, and the battery cover.

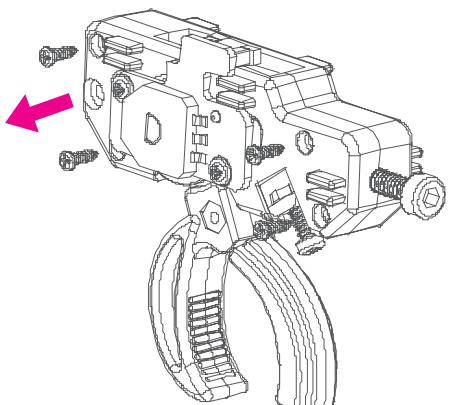


3



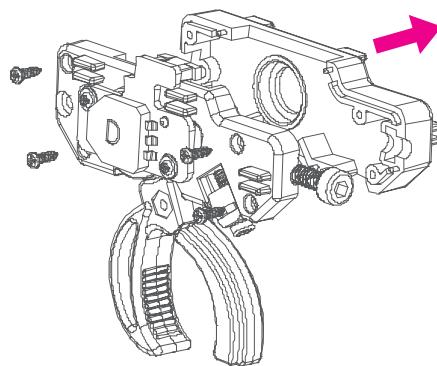
- ▶ Gently remove the trigger FPC cable, and then remove the trigger.

4



- ▶ Remove 4 screws(PWA 2.1*6mm);

5



- ▶ Remove the upper trigger cover;



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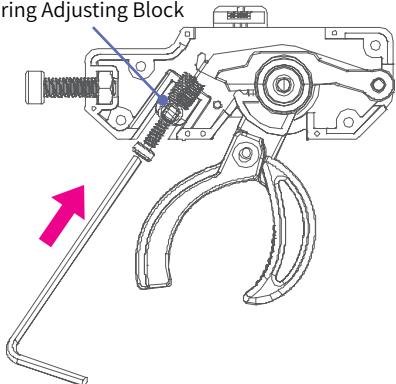


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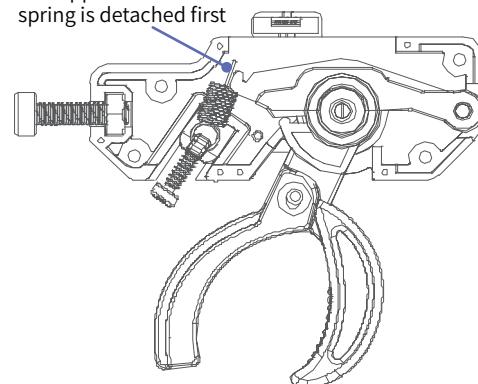
6 Spring Adjusting Block



- ▶ Adjust the screw(HB2*9mm) with a metric 1.5mm hexagonal screwdriver and adjust the spring adjusting block to the very bottom;

7

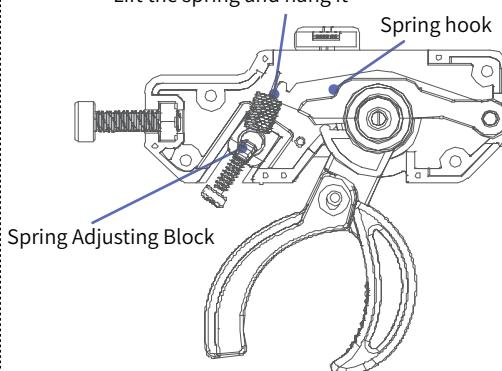
The upper end of the spring is detached first



- ▶ Lift the upper end of the spring, and finally the spring is removed;

8

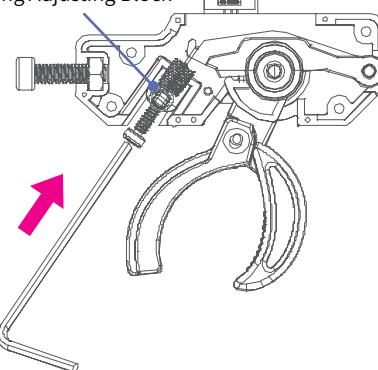
Lift the spring and hang it



- ▶ Hang the lower end of the spring to the spring adjusting block, then lift the spring and hang spring hook;

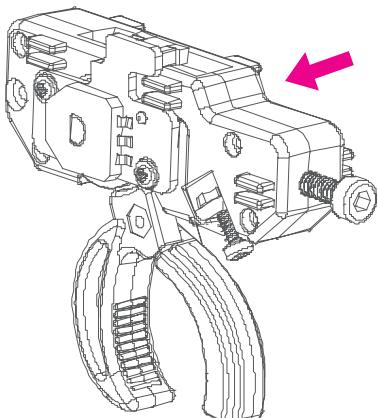
9

Spring Adjusting Block



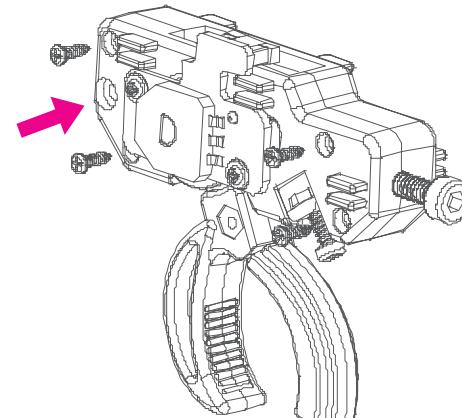
- ▶ Adjust the screw(HB2*9mm) with a metric 1.5mm hexagonal screwdriver, and adjust the spring adjusting block to the appropriate position;

10



- ▶ Install the upper trigger cover;

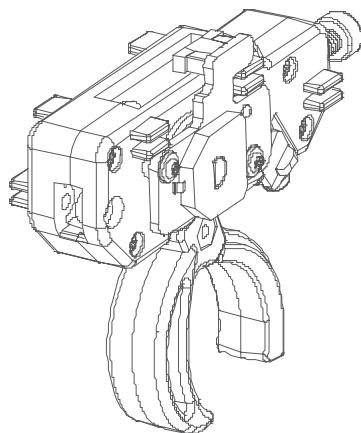
11



- ▶ Lock 4 screws(PWA 2.1*6mm) to secure trigger cover;



12



► Complete the trigger spring replacement.



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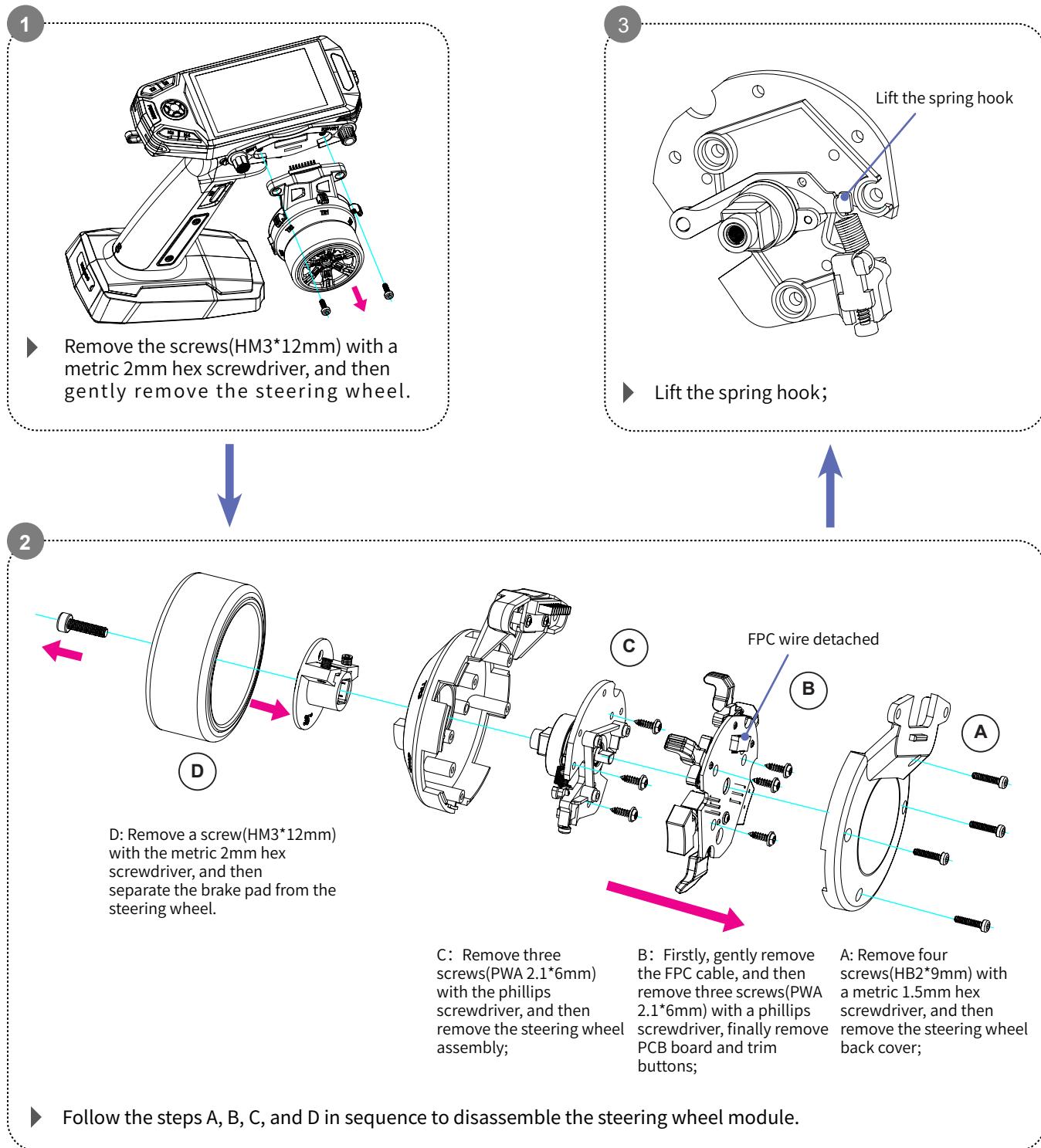
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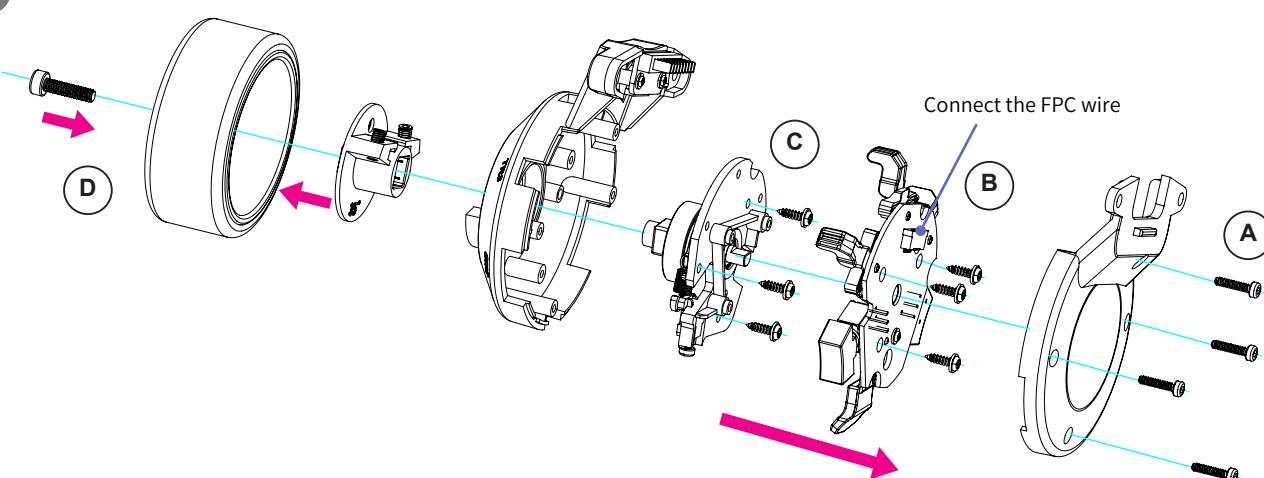
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7.4 Steering Wheel Spring Replacement

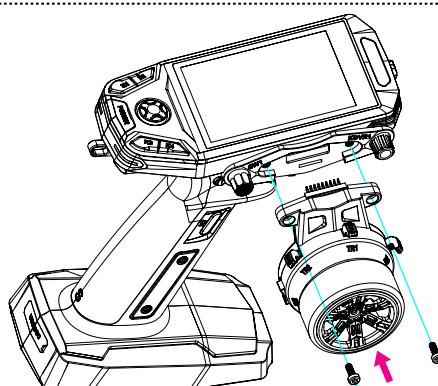


4



- Install the steering wheel module, the installation direction and steps are the reverse of the disassembly steps 3;

5



- Install the steering wheel module onto the transmitter; the installation direction and steps are the reverse of the disassembly steps 1.



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8.Specifications

This chapter includes specifications for FS-G11P transmitter and FS-R11P receiver.

8.1 Transmitter Specifications

| | |
|---------------------|--|
| Product Model | FS-G11P |
| Compatible Receiver | FS-R11P and other receivers with ANT protocol |
| Compatible RC Model | Cars or boats |
| Number of Channels | 11 |
| Number of Bands | 133 |
| RF | 2.4GHz ISM |
| Maximum Power | < 20dBm (e.i.r.p.) (EU) |
| RF Protocol | ANT |
| Resolution | 4096 |
| Data Connector | USB Type-C, 3.5mm Audio Jack(DSC), SD card slot |
| Input Power | 6-9V/DC; 18650*2PCS/2S LiPo |
| Distance | No less than 300m (Ground distance without interference) |
| Antenna | Two bulit-in antennas |
| Display | 3.5 inch 320*480 full dot color non-touch IPS screen |
| Firmware Update | Supported |
| Temperature Range | -10°C ~ +60°C |
| Humidity Range | 20% ~ 95% |
| Color | Black |
| Weight | 371g |
| Dimensions | 150.0*120.8*197.1mm |
| Charging Jack | Yes (Type-C Port) |
| Certifications | CE, FCC ID: 2A2UNG11P00 |



8.2 Receiver Specifications

| | |
|------------------------|--|
| Product Model | FS-R11P |
| Compatible Transmitter | FS-G11P and other transmitters with ANT protocol |
| Compatible RC Model | Cars or boats |
| Number of Channels | 11 |
| RF | 2.4GHz ISM |
| Maximum Power | < 20dBm (e.i.r.p.) (EU) |
| RF Protocol | ANT |
| Resolution | 4096 |
| Data Output | PWM/PPM/i-BUS/S.BUS |
| Operating Voltage | 3.5~9V/DC |
| Distance | No less than 300m (Ground distance without interference) |
| Antenna | External single antenna |
| Display | LED |
| Firmware Update | Supported |
| Temperature Range | -10°C ~ +60°C |
| Humidity Range | 20% ~ 95% |
| Color | Black |
| Weight | 10g |
| Dimensions | 37.0*25*13.3mm |
| Waterproof | PPX4 |
| Certification | CE, FCC ID:2A2UNR11P00 |



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9. Package Contents

| Number | Name | Quantity |
|--------|---------------------------|----------|
| 1 | FS-G11P transmitter | 1 |
| 2 | FS-R11P receivers | 1 |
| 3 | Quick Start Guide | 1 |
| 4 | Small Hand Grip | 1 |
| 5 | Large Hand Grip | 1 |
| 6 | Type-C Cable | 1 |
| 7 | Machine Screws | 2 |
| 8 | Handle | 1 |
| 9 | Certificate Of Conformity | 1 |
| 10 | High-Elasticity Spring | 1 |
| 11 | Low-Elasticity Spring | 1 |



10. Certification

10.1 EU DoC Declaration

Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the radio equipment type [FS-G11P] is in compliance with Directive 2014/53/EU.

The full text of the EU DoC is available at the following internet address: www.flyskytech.com/info_detail/10.htm

10.2 CE SAR statement

This equipment complies with Directive 2014/53/EU radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market(France). These requirements set a SAR limit of 2W/kg averaged over ten gram of tissue. The highest SAR value 0.112W/kg reported under this standard during product certification for use when properly worn on the limbs.

10.3 FCC Compliance Statement

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 (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.



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- 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.

10.4 FCC SAR

For body-worn operation, the device has been tested and meets the FCC RF exposure, the maximum sar value is 0.246W/Kg at 0mm

10.5 Environmentally Friendly Disposal

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.



CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

CAUTION

- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Figures and illustrations in this manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.



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Release date: 2025-09-06



FCC ID: 2A2UNG11P00

Manufacturer: Shenzhen FLYSKY Technology Co., Ltd.

Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China