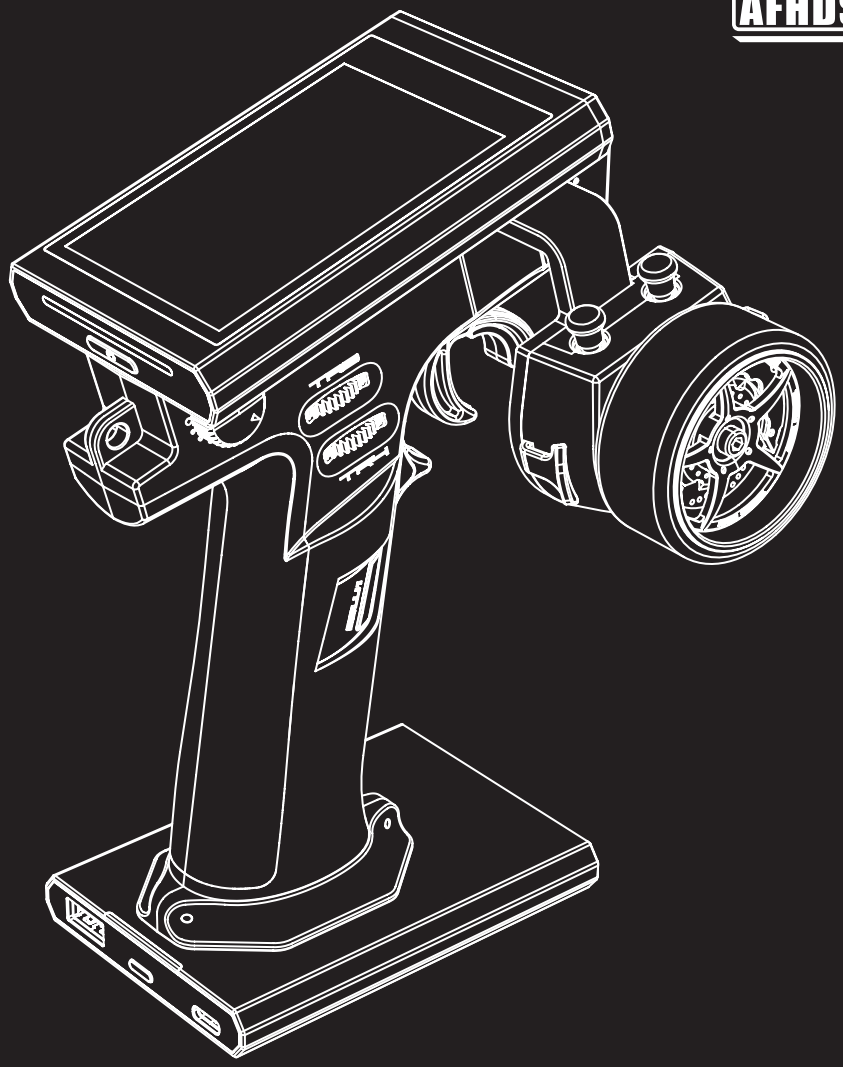
FLYSKY

Noble NB4+

2.4GHz AFHDS 3



Quick Start Guide

Precaution !

For your own safety: make sure to download and read the Disclaimer & Warning documentation from the Flysky website before using this product.
Flysky Website：www.flysky-cn.com

1. The ce warns that the installation of the antenna used in this transmitter must be kept in distance from all the personnel and shall not be used or used with any other transmitter. The end user and the installer must provide antenna installation instructions and transmitter operating conditions to meet the requirements for rf exposure compliance.
2. Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares the RF equipment [Noble NB4+, NB4+] to be in accordance with RED2014/53/EU.
3. The full text of the EU DoC is available at: www.flyskytech.com/info_detail/10.html

ISED Compliance Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’ s licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L’ émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’ Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’ exploitation est autorisée aux deux conditions suivantes :

(1) L’ appareil ne doit pas produire de brouillage;

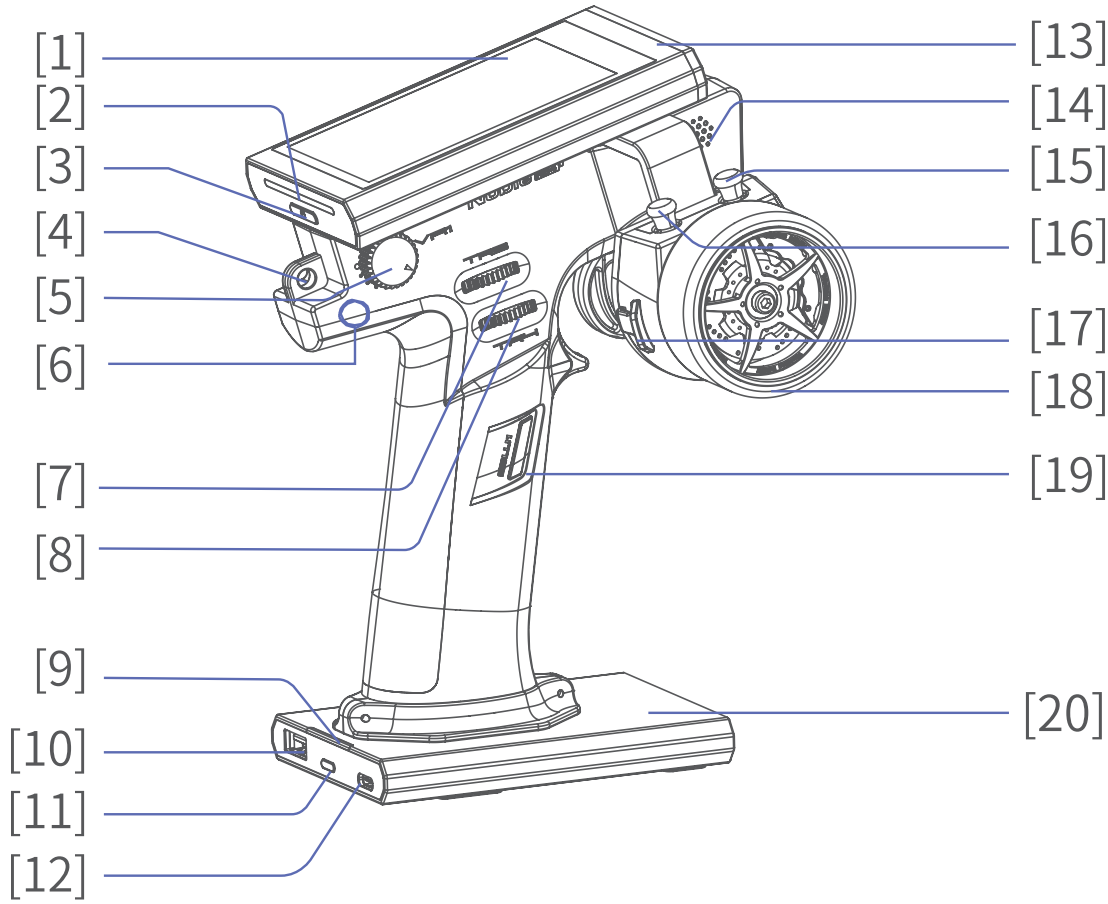
(2) L’ appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’ en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

RF Exposure Statement

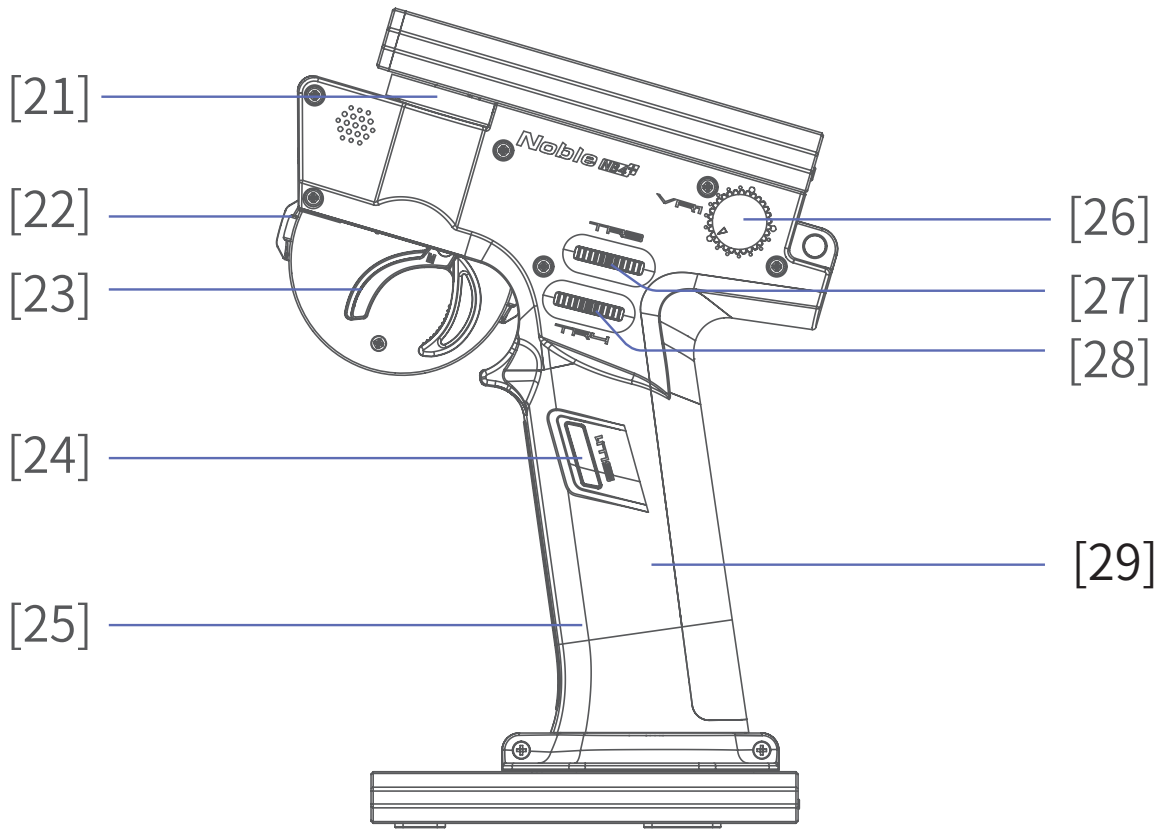
The device has been evaluated to meet general RF exposure requirement.The device can be used in portable exposure condition without restriction.

Right View：

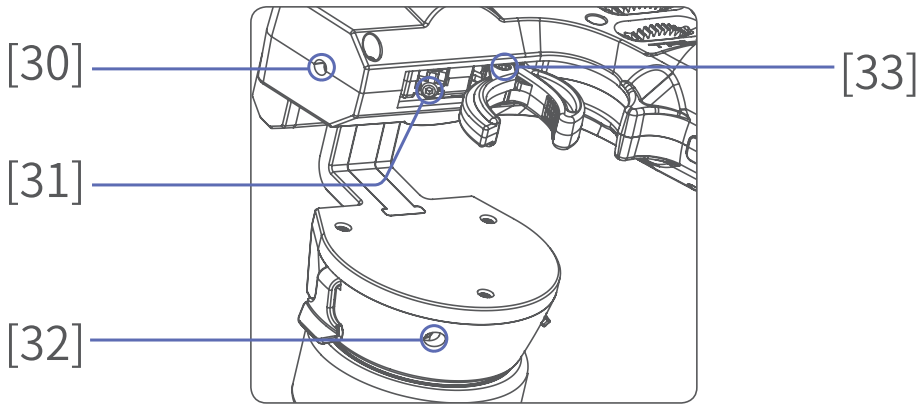


[1]	Display	[12]	Type-C input port, Firmware Update, Charging Jack, Connect to Simulator Port, Trainer Jack, Head Tracker Jack
[2]	Transmitter LED		
[3]	Transmitter Power Button		
[4]	Neck Strap Hook	[13]	Built-in Antenna
[5]	VR1	[14]	Speaker
[6]	Forced Shutdown Button (placed at the bottom of the grip)	[15]	TR2
[7]	TR3	[16]	TR1
[8]	TR4	[17]	SW2
[9]	Base Battery Indicator	[18]	Steering Wheel
[10]	USB 5V 1A Port	[19]	SW1
[11]	Base Power Button	[20]	Detachable Base

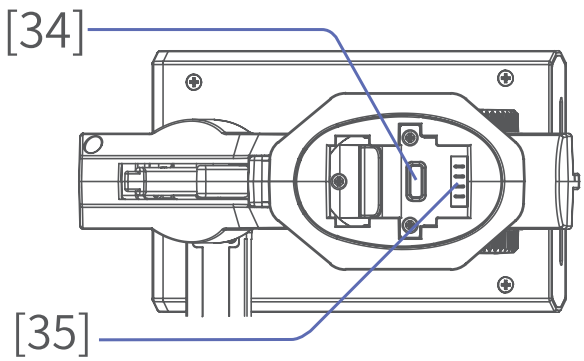
Left View:

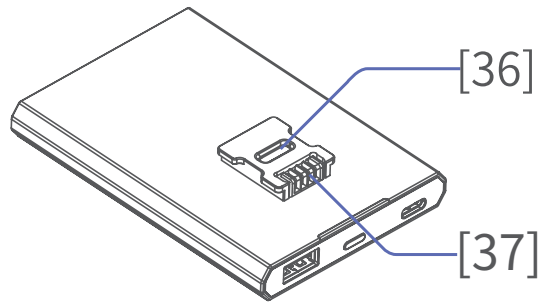


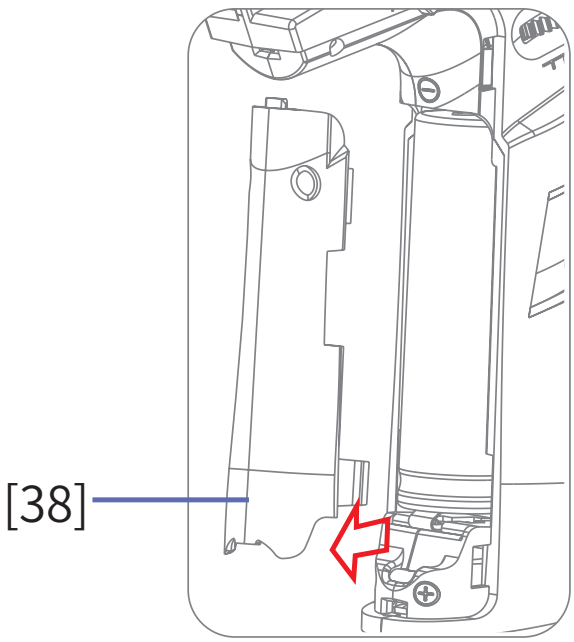
[21]	Steering Wheel Swivel Bracket	[26]	VR1
[22]	SW3	[27]	TR3
[23]	Trigger	[28]	TR4
[24]	SW1	[29]	Battery Compartment , Built-in 3450mAh 18650 Battery
[25]	Handle		



- Note: Do not completely unscrew the adjustment screws.







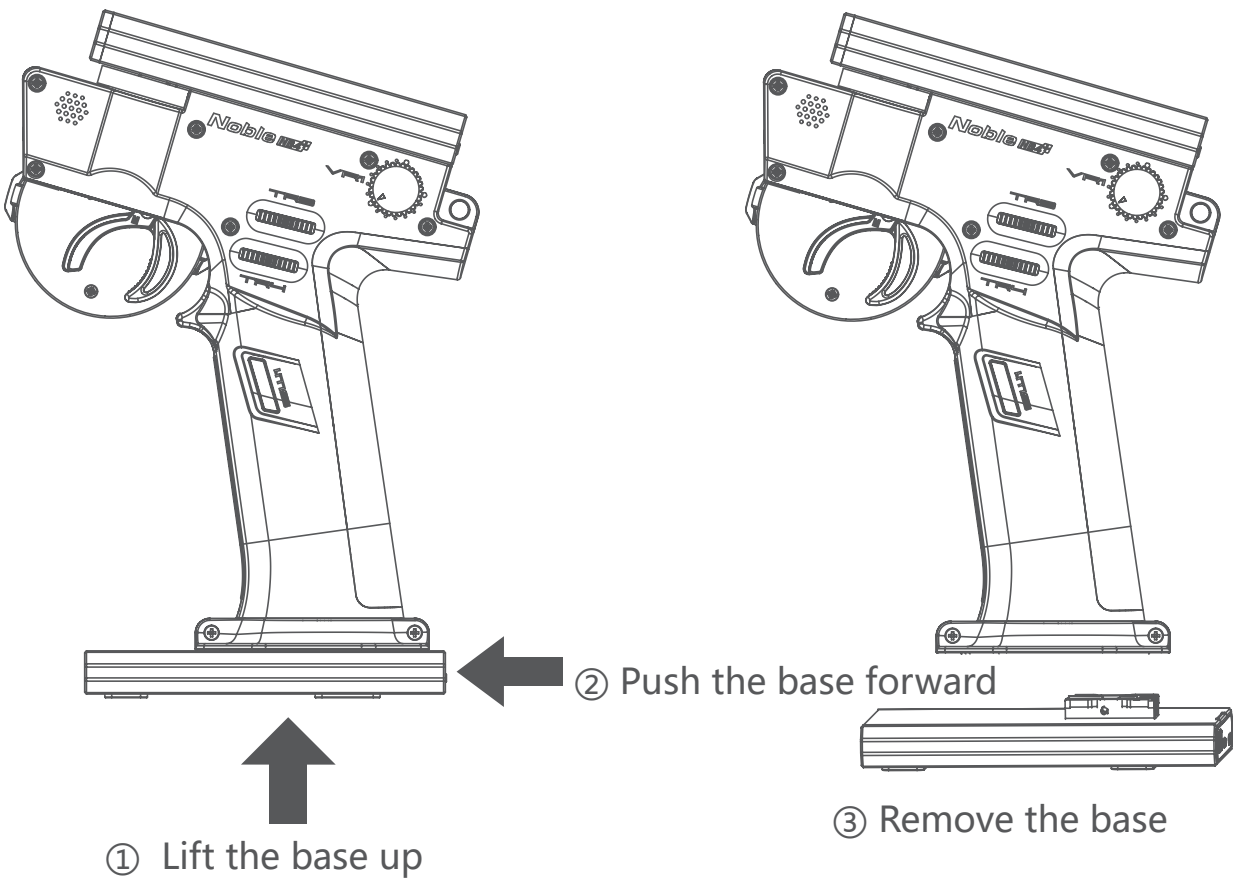
[30] Throttle Trigger Structure Travel Adjustment Hole
[31] Throttle Trigger Tension Adjustment Hole
[32] Steering Wheel Tension Adjustment Hole
[33] Throttle Trigger Size Adjustment Hole
[34] Clip
[35] Handle Power Port
[36] Clip Slot
[37] Base Power Port
[38] 18650 Battery Cover

Detachable base

Removeable Transmitter Base.

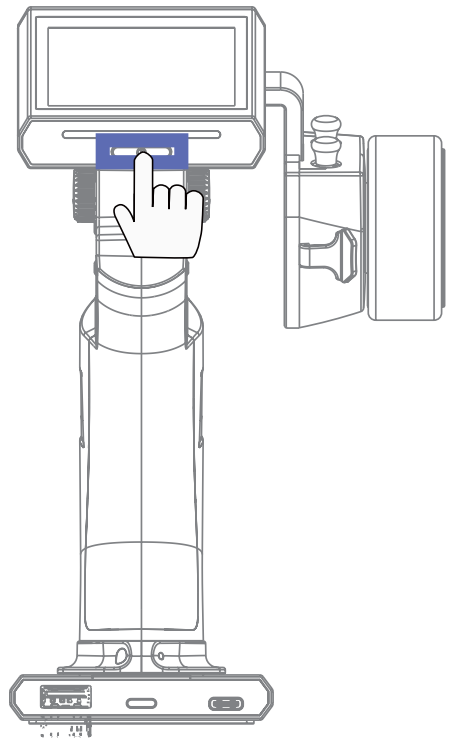
When active the base can power the transmitter, or other 5V external electronic devices via the USB port.

When the transmitter needs to be charged or when charging the base, plug in the USB Type-C cable and charge it through the Type-C port located on the base.



Power-On

1. Before use make sure that the battery is fully charged.
2. Press and hold the transmitter power button until the screen turns on.
   - After power-on, the system will pop up a window to prompt whether to set up failsafe for the current model. To disable the failsafe setting prompt, tap [NO] or turn off the [Failsafe Warning] via [SYSTEM].



Power-Off

1. Disconnect the receiver from it's power supply.
2. Press and hold the transmitters power button until the screen powers off.

Before powering off the transmitter make sure that the receiver has been powered off first. Powering off the transmitter before the receiver may result in loss of control of a model or engine leading to an accident.

LED Indicatory

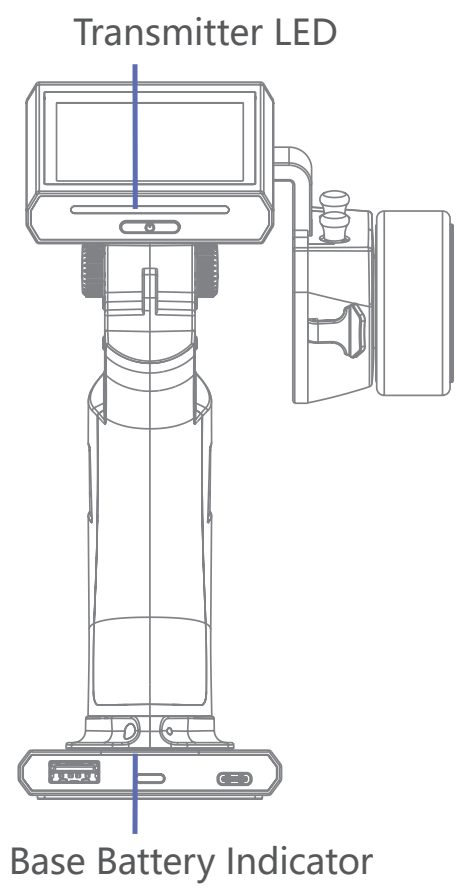
The Noble NB4+ has 2 status indicators, one below the screen on the top of the transmitter and one on the detachable base.

Transmitter LED

The LED can be set to five different colors: red, green, blue, yellow and white. You can also turn the LED off completely.

Setup:

1. Touch the function menu icon , then touch the [System];
2. Touch [LED];
3. Select a color by touching it. The LED color will be updated in real time.
4. If you choose to customize, click [Custom] to enter the setting interface, select the option you want to set, then click "+" or "-" to set the appropriate value, or you can directly touch and slide the screen to set, and then click , and click [Yes] to complete the setting in the pop-up window.



Base Battery Indicator

The Base Battery Indicator has 4 LEDs and is mainly used to display bases battery level.

When the base battery voltage is low, the base LED will only have one LED light on and start flashing.

When charging the LED will flash and the amount of active LEDs will increase as the battery charges.

Setup:

Press the power button located on the base to power it on and begin charging the transmitter via the transmitter connector or other 5V devices via the USB port. Press and hold the power button again to turn off the charging function.

Do not charge the base and power other devices off it at the same time. This may increase charge time for the transmitter as well as trigger overload protection if the external device is pulling too much power.

⚠ Failsafe

This feature is designed to protect models and their users in the event of a loss of signal.

For the failsafe function, the system provides the following configuration options:

- Set the failsafe judgment time.
- Disable i-BUS-out and PPM protocol signal output in case of out-of-control: When the failsafe is triggered, the i-BUS-out

and PPM connectors will have no output.

- Configure failsafe settings per channel: Each channel can be individually set to one of four modes: [Not Set (No Output)], [Channel Value None Output], [Fixed Value], or [Hold].
- [Set All Fixed Value]: In case of out-of-control, all channels configured with a fixed value will output their current values.
- Test the failsafe function: Simulate a signal loss scenario where the transmitter disables RF output, and the model enters failsafe mode. All channels will output according to the configured failsafe settings.

Failsafe Test Function

To simulate that after the model is out-of-control, the transmitter will turn off the RF output, and the model will enter the failsafe status, and all channels will be output according to the failsafe settings.

Setup:

1. Tap  , a popup window comes along with it as shown. Press and hold  over 1 second, then the system turns off RF.
   And the receiver output channel value according to failsafe settings.
2. Release  , the RF will be on and the connection will be restored.

Failsafe Judgment Time

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

Setup:

1. Tap [Judgment Time] to enter the setting interface.
2. Click +/- to set the appropriate value, then click to return.

i-BUS & PPM signal no output

If the checkbox on the right of the option is not ticked ( ), it indicates that the function is disabled. After the failover, you can set by channel: fixed value or keeping the last output value.

Setting A Separate Channel

1. Tap the channel you want to set.
2. Click an approprate option as desired. If the fixed value is selected, move throttle trigger(steering wheel, button or knob) to the desired position and hold it, then click to finish the settings.

Setting All Fixed Value Channels

Tap this function while moving the control to the desired position and holding, after that a prompt interface comes along with it. Click"YES" to finish.

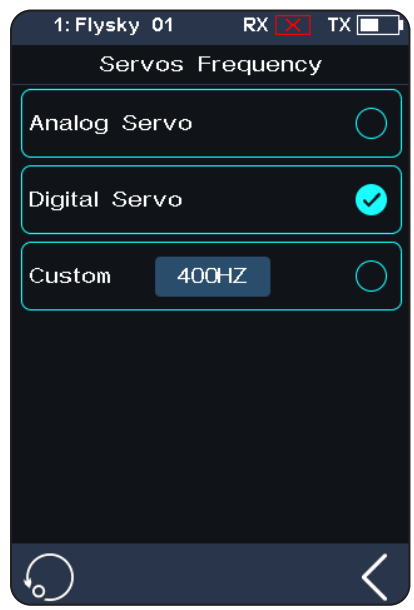
⚠ **Attention**	• For safety,it is recommended that all users pre-set this function before use.

Servos Frequency

This function is used to adjust the servo control frequency. This function can be used for analog servos (95Hz), digital servos (380Hz) and can also be set to custom. Digital servos and custom frequencies range between 50-400Hz.

The servos frequency varies slightly with the connected receivers.

For the Classic Version Receiver

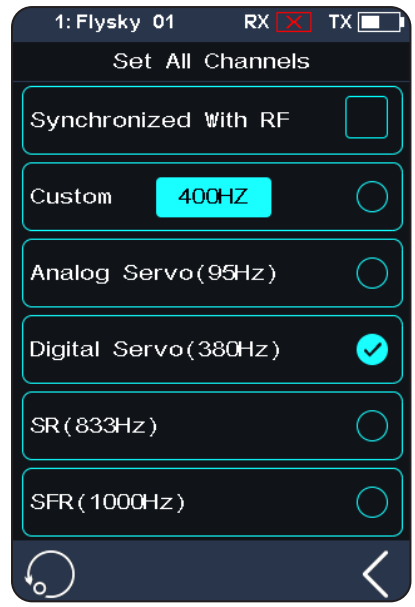


Setup:

1. Click [Servos Frequency].
2. Click the corresponding option. Click ◂ to return to the previous level interface.

   If the transmitter RF Setting is set to [AFHDS 3 1 way], modify the servo response speed and then tap ◂. The system prompts "It takes effect after bind or re-bind. Are you sure you want to bind?"
3. If you choose [Custom], click "+" or "-" to adjust the frequency.

For the Enhanced Version Receiver



[SR]: One of the specifications in the servo frequency (PWM frequency is 833 Hz).

[SFR]: One of the specifications in the servo frequency (PWM frequency is 1000 Hz).

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.

Setup:

1. Click [Steering Digital Servo] or other options to enter the function setting interface.
2. Click the corresponding servo frequency according to the actual state of the adapted receiver. Click ◀ to return to the previous level interface.Click the check box on the right of [Synchronized with RF]. The icon will change to ☑. The servo frequency of this function will be synchronized to RF after it is checked.
3. If you choose [Custom], click "+" or "-" to adjust the frequency value.

Both the analog servo (95Hz) and the digital servo (380Hz) are common servo frequencies and as such, are available as presets for quick setup. In order for servos to operate normally they must receive the correct frequency, to find the frequency refer to the servos user manual.

Firmware update

The transmitter's firmware can be updated by connecting to a Windows computer using a USB Type-C cable. Once this function is activated, all transmitter functions will stop working. To prevent the vehicle from losing control, power off the receiver before attempting to use this function.

⚠ warning	• Do not disconnect the USB Type-C cable while the firmware is being updated!

This firmware can be updated via the following two ways.

- The firmware of this receiver can be updated through the FlyskyAssistant (The firmware of FlyskyAssistant is available on the Flysky official website).
- Or update it by following the steps below:
    1. Download and open the latest official software;
    2. Connect the transmitter to the computer via USB Type-C first;
    3. Touch [Firmware Update]. The system will display the warning: “Entering update mode will disable all

other functions.” , touch [Yes] to continue;

4. After completing the above steps, click [Update] in the computer update software window to start the update;
5. Once the update is complete, the transmitter will exit the update function automatically and reboot. (It is now safe to remove the USB Type-C cable).

⚠ **Attention**	• After a firmware update the receiver may not connect. If this is the case the RF module and receiver need to be updated.

RF Module Update

Setup:

The update RF function can be used to update the firmware of the built-in RF module.

After the firmware of the transmitter is updated, you need to update the RF when the system prompts that the RF fails or the bind of the receiver fails.

Click [Update RF], Click "Yes" after the prompt interface pops up. An update progress bar appears. Wait a few seconds. The update is completed. The transmitter will automatically exit the update interface. If the transmitter cannot enter the update RF status, there is no RF module or the RF module is faulty.

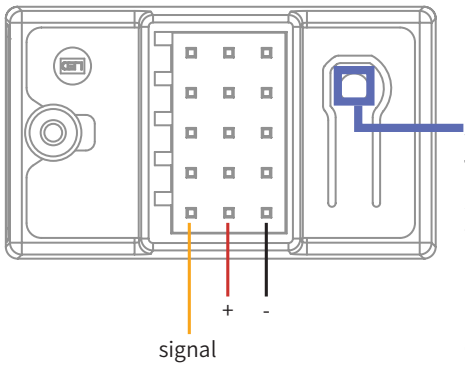
Updating Receiver Firmware

Each transmitter update comes with a receiver firmware update which needs to be uploaded to the receiver to make the most of optimizations and features that are included in the update.

Different receivers may have different ways of entering the firmware update status. Please refer to the instructions of related receivers in the website.

Setup:

- Some receivers such as GMR and INr4 need to be updated with "Flysky Assistant".
- If the transmitter has successfully coded and the connection is established, if the receiver firmware is the latest version, a pop-up prompt will appear [The current version is the new version, no upgrade is required!]. If the receiver firmware is an old version, a pop-up prompt [Are you sure to update the receiver?]. Click [Yes] to update the receiver.
- If the receiver and the transmitter are not connected, then enter the receiver selection interface (FGr8B/FGr4B needs to be placed upright when in use), check the receiver to be connected and pop up a prompt [Please connect XX or enable XX enter the mandatory update mode] Click [OK]!



There are two methods to let the receiver into forced update mode:

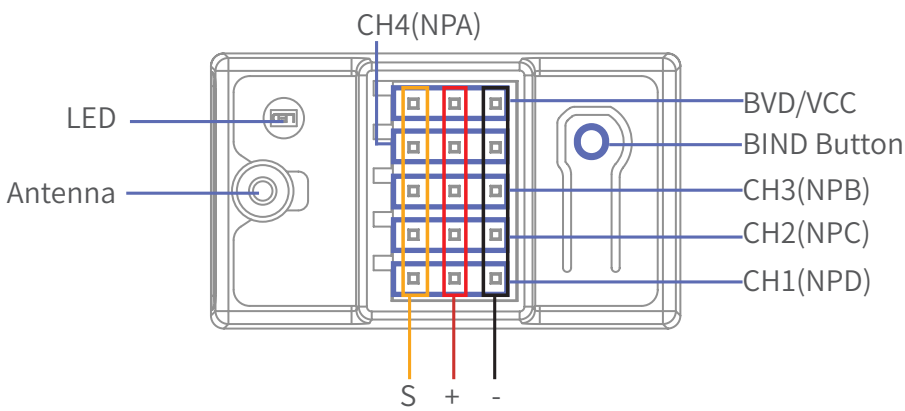
1. Power on the receiver while pressing the BIND button for more than 10 seconds, until the LED is in a state of three-time flashing and one off, then release the BIND button.
2. Power on the receiver first, then press and hold the BIND button for more than 10 seconds, the LED of the receiver will be in a state of three-time flashing and one off, then release the BIND button.

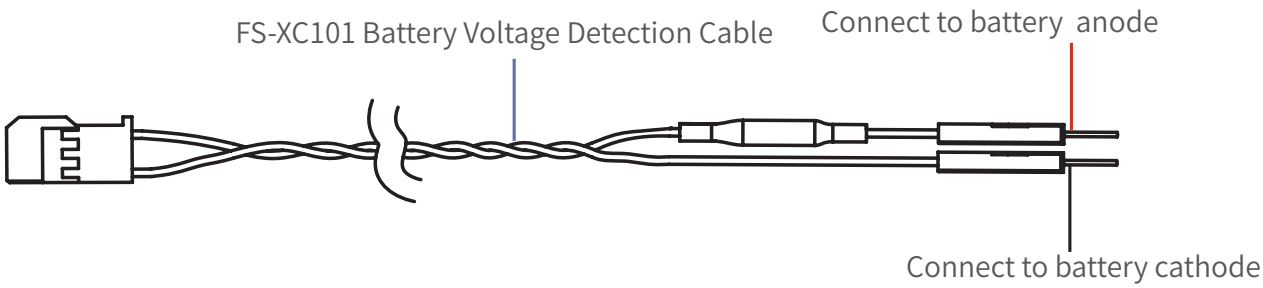
After starting the update, the transmitter will display as below. Once the update as reached 100%, the update is successful.

- The transmitter firmware must be updated before updating the receiver firmware.

Binding

The transmitter and receiver have already been pre bound at the factory, however if you wish to bind again or bind a new receiver follow the steps below:



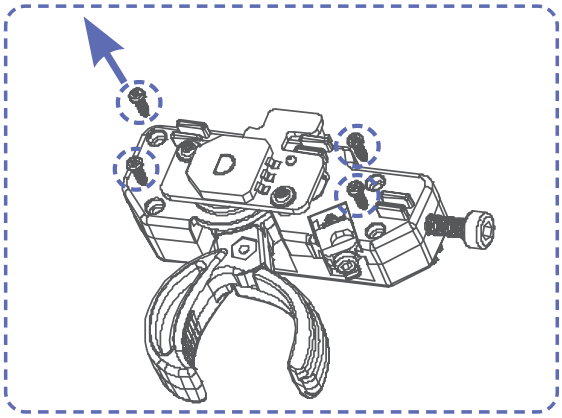


1. Put the transmitter to enter binding mode;
2. Press and hold the receiver BIND button while powering on the receiver, then release the BIND button after receiver is powered on, or power on the receiver first, then press and hold the BIND button 3 seconds, the LED of the receiver will flash rapidly, indicating that the receiver is in binding mode;
3. The binding process is complete when the LED of the receiver stops flashing and is solid on;
    - If a transmitter that has had its radio frequency (RF Standard) set to "AFHDS3 1 way" (Please refer to your transmitter user manual) enters binding mode, the LED will instead flash slowly. You need to manually put the transmitter to exit the binding mode. If the LED of the receiver stops flashing and is solid on, the binding process is complete;
4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

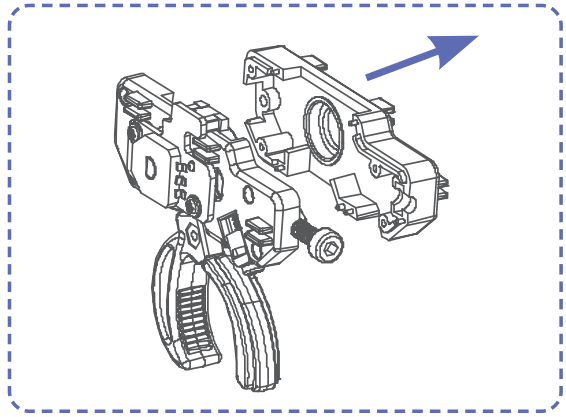
These steps are only for the Noble NB4+ transmitter in use with the FGr4B receiver. If you are using other receivers please visit the website for more information.

Trigger Spring Replacement

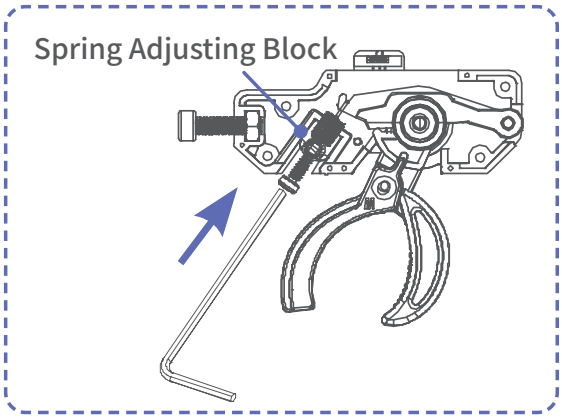
1、Remove 4 screws(PA 1.5*5mm);



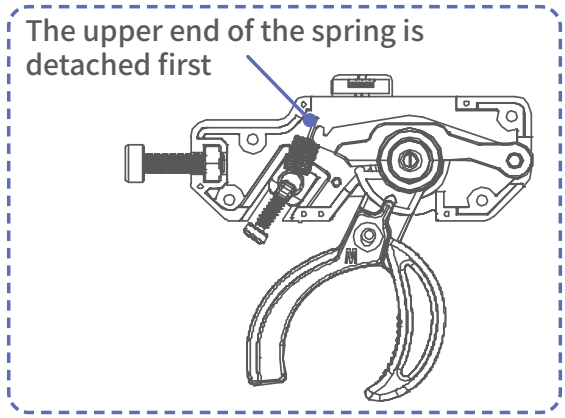
2、Remove the upper trigger cover;



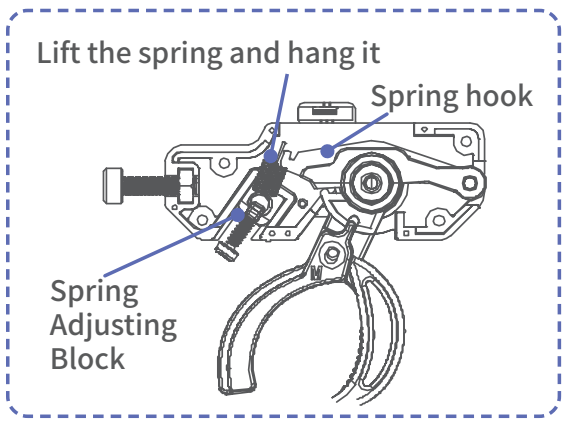
3、Adjust the screw(HB2*9mm) with a metric 1.5mm hexagonal screwdriver and adjust the spring adjusting block to the very bottom;



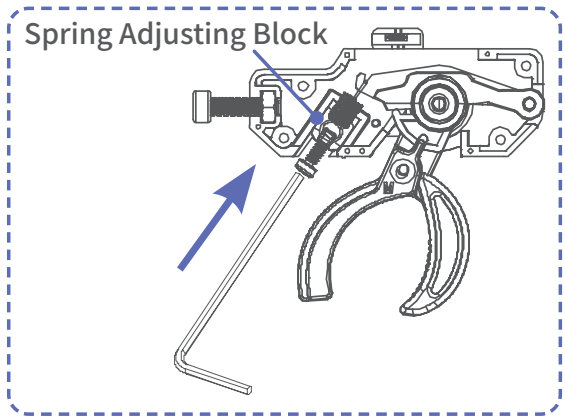
4、Lift the upper end of the spring, and finally the spring is removed;



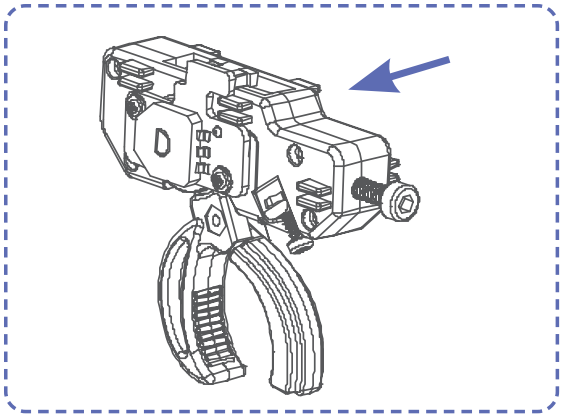
5、Hang the lower end of the spring to the spring adjusting block, then lift the spring and hang it;



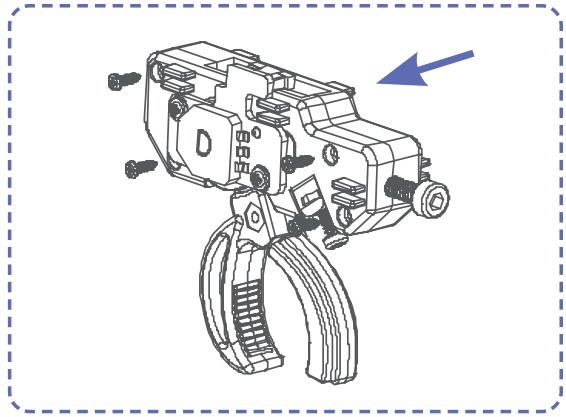
6、Adjust the screw(HB2*9mm) with a metric 1.5mm hexagonal screwdriver, and adjust the spring adjusting block to the appropriate position;



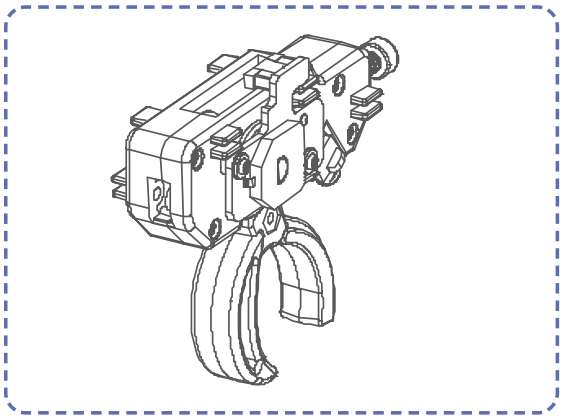
7、Install the upper trigger cover;



8、Lock 4 screws(PA 1.5*5mm) to secure trigger cover;

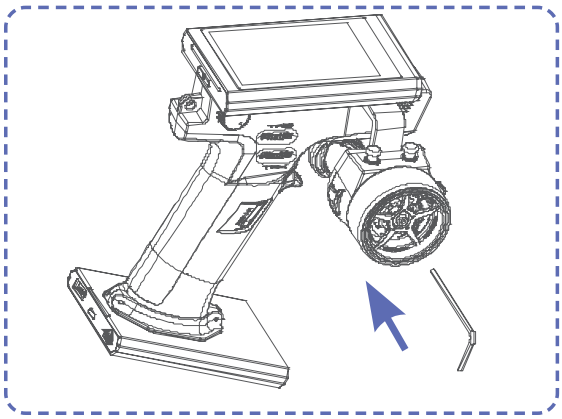


9、 Complete the trigger spring replacement.

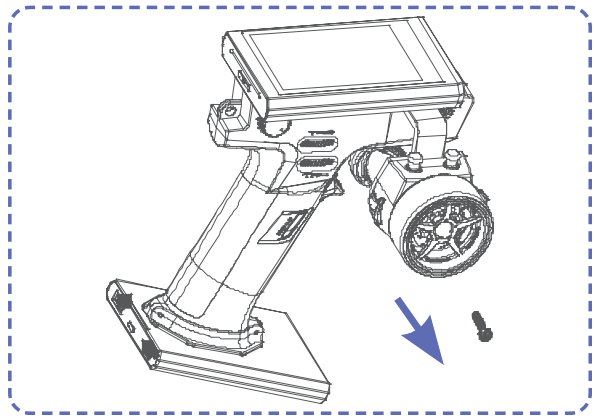


Steering Wheel Spring Replacement

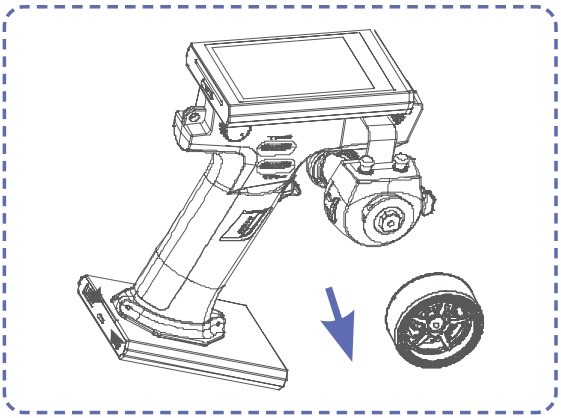
1、First insert a metric 2.5mm hexagonal screwdriver into the screw hole used to secure the steering wheel;



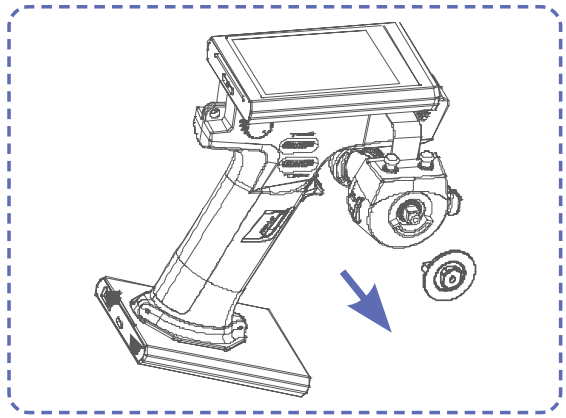
2、 Turn a metric 2.5mm hexagonal screwdriver counterclockwise until the screw(HM3*12mm) is completely loose and remove it;



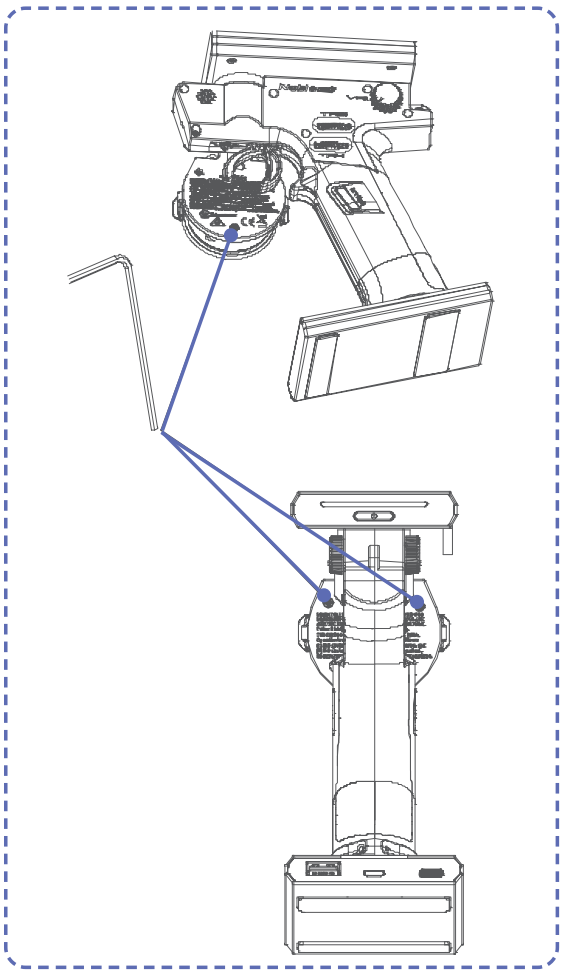
3、Remove the steering wheel;



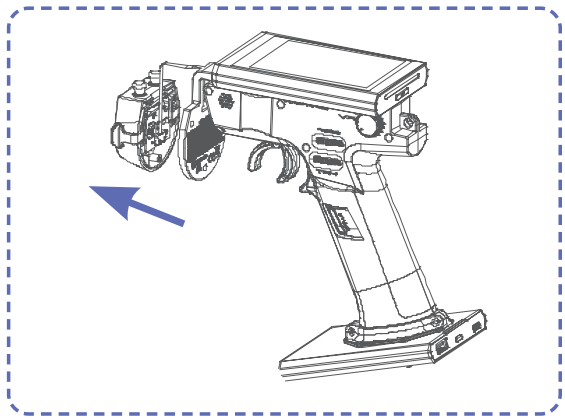
4、Pinch the brake pad with two fingers and take out upwardly;



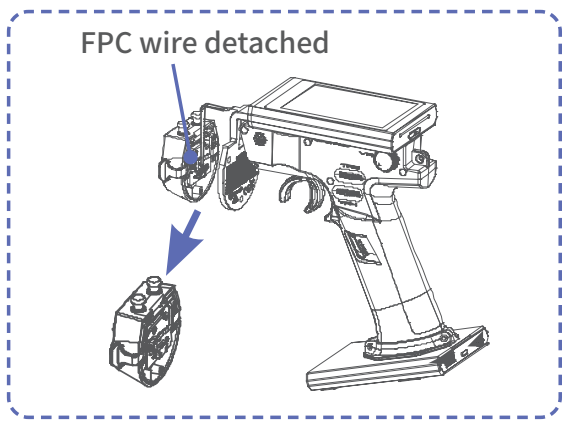
5、Remove the screws by turning them counterclockwise with a metric 1.5mm hexagonal screwdriver;



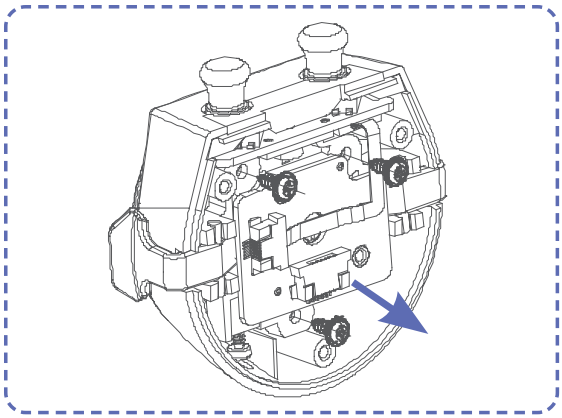
6、Steering wheel base detached;



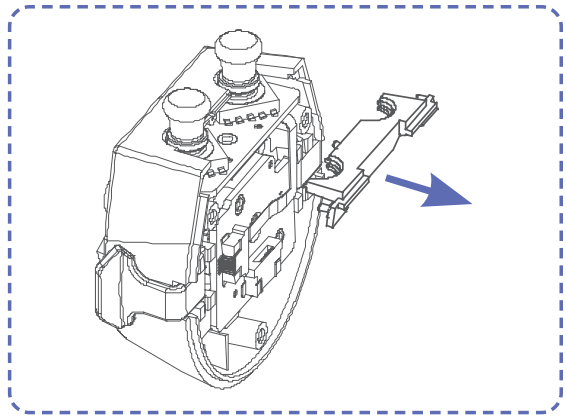
7、FPC wire detached, then remove the steering wheel base;



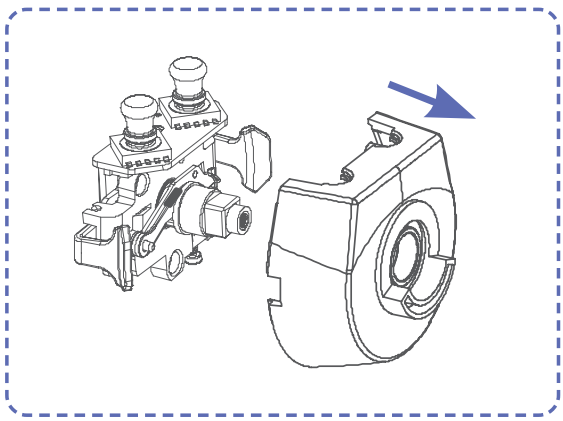
8、Remove the screws(PWA2.1*6mm);



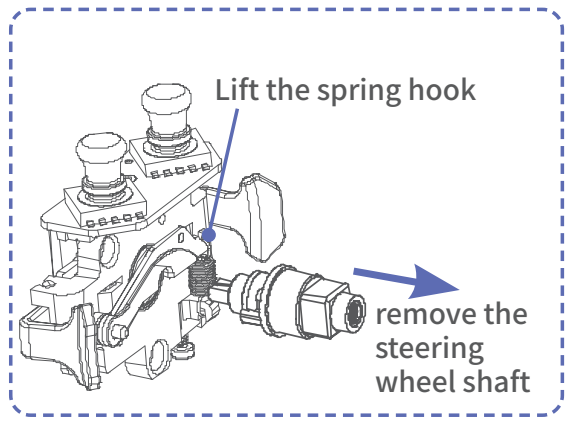
9、Remove the cap;



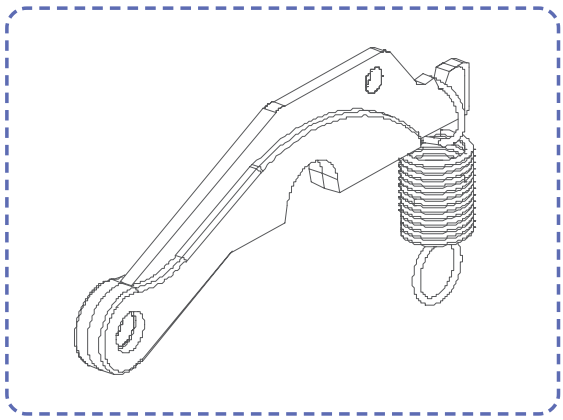
10、Remove the upper steering wheel pad cover;



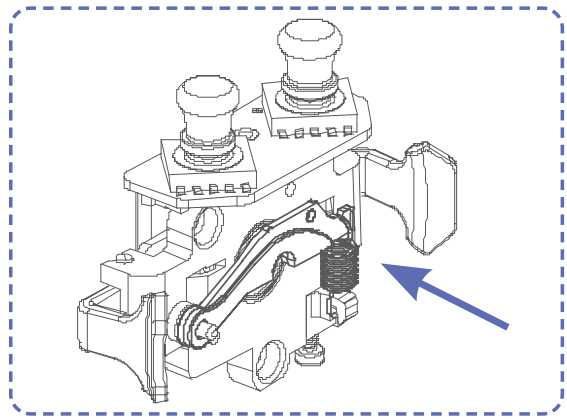
11、Lift the spring hook with one hand and remove the steering wheel shaft with the other hand;



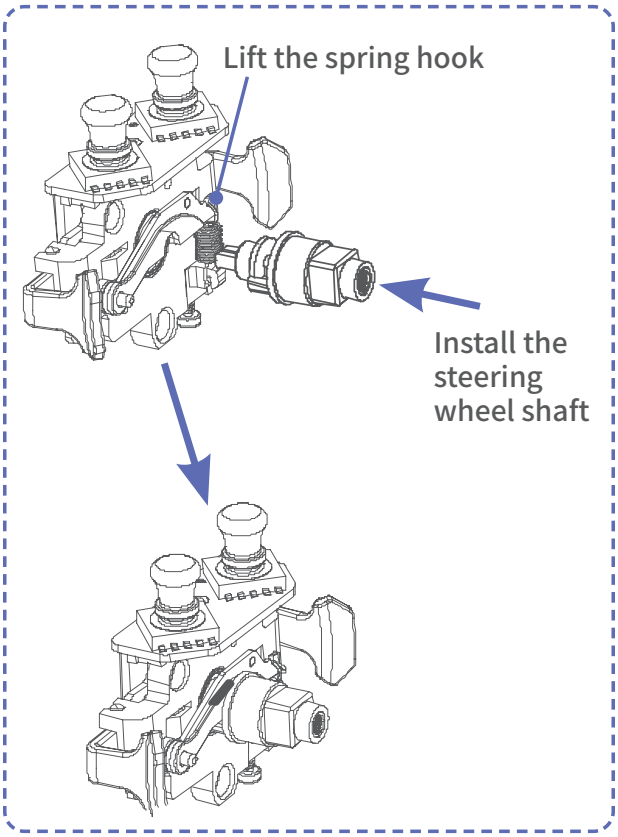
12、Remove the spring hook and the spring component, then replace the spring;



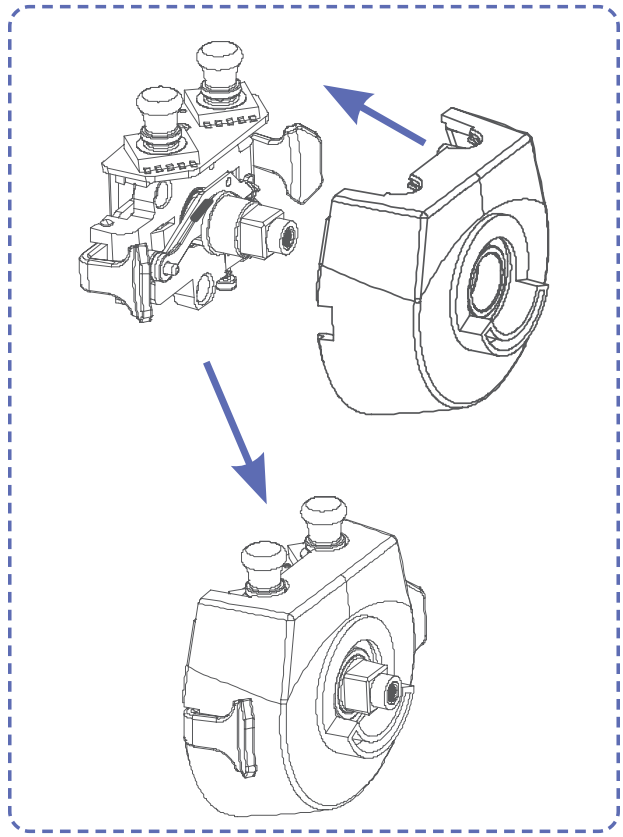
13、Install the spring component;



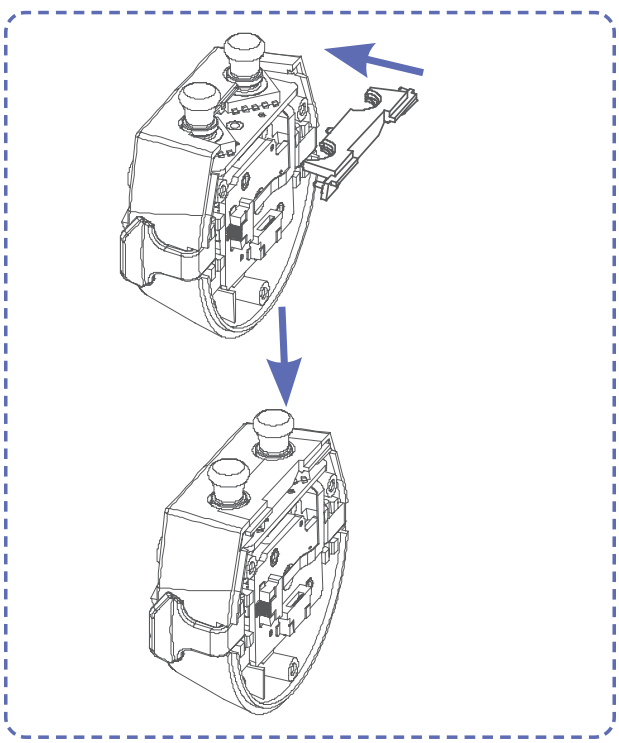
14、Lift the spring hook with one hand and install the steering wheel shaft with the other hand;



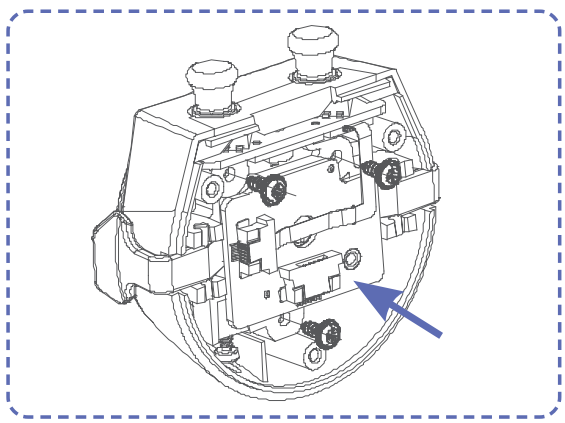
15、Install the upper steering wheel pad cover;



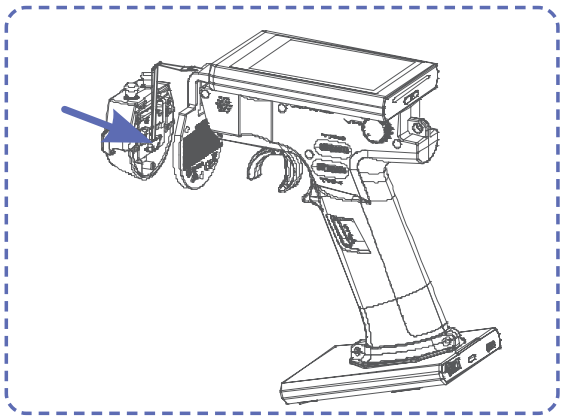
16、Install the cap;



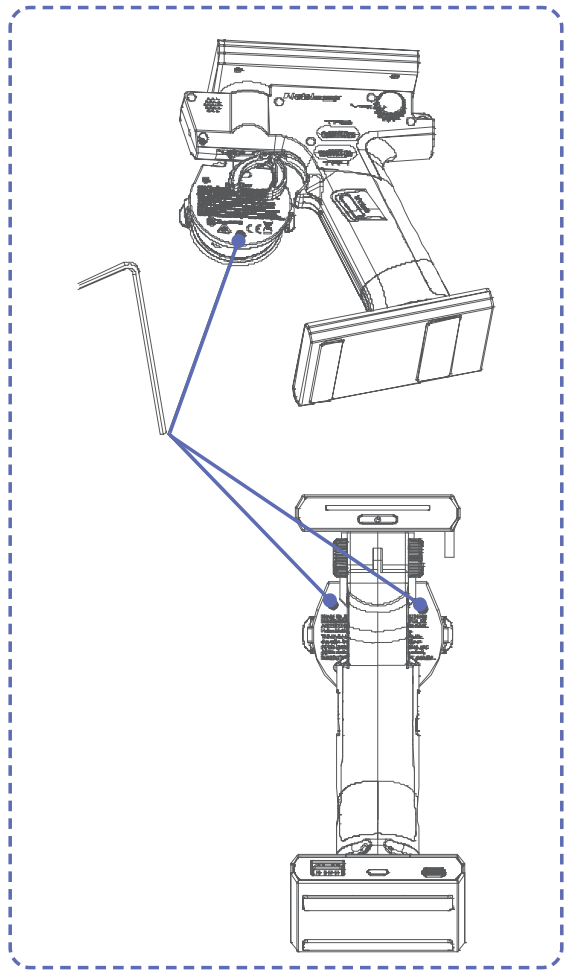
17、Lock the screws(PWA2.1*6mm);



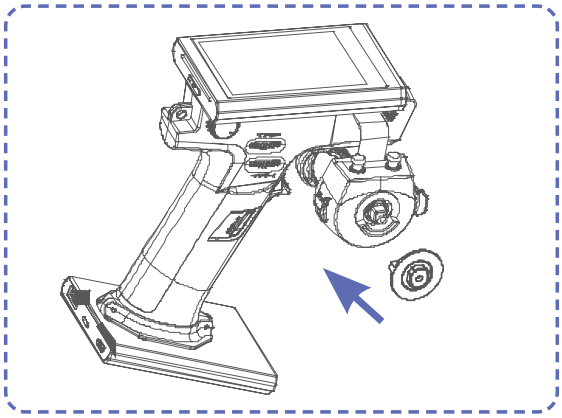
18、Connect the FPC wire;



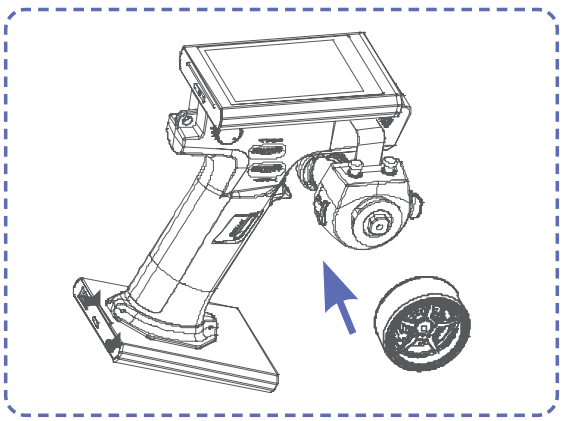
19、Lock the screws（HB2*9mm）;



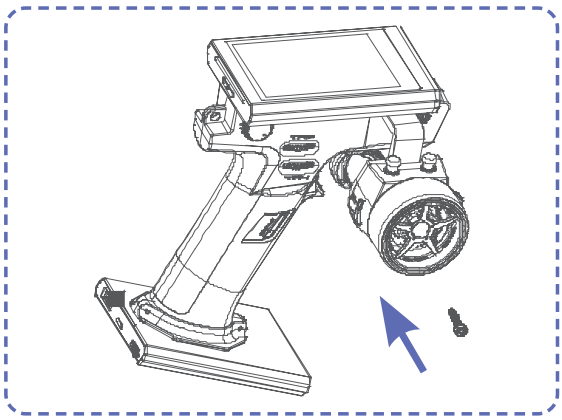
20、Install the brake pad;



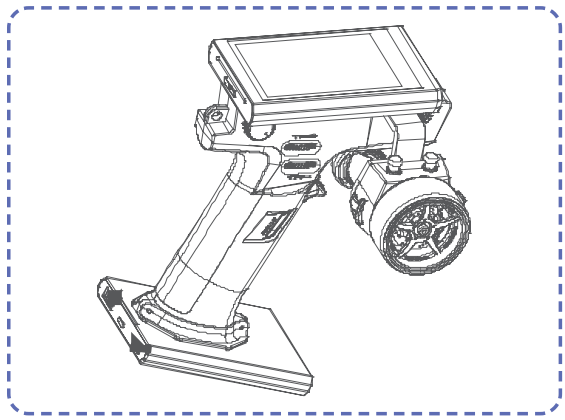
21、 Use the mounting slot of the steeringwheel with brake pad adjustment hole to place over the protruding connector of the brake pad, then press the steering wheel to fix it.



22、Insert the screw(HM3*12) into the screw hole used to secure the steering wheel, then align a metric 2.5mm hexagonal screwdriver with the hexagonal hole in the head of the screw, hold the side of the steering wheel with one hand and turn the screwdriver clockwise with another hand until the screw is secured;



23、Complete the steering wheel spring replacement.



Triggers Description

Three triggers are included in the package accessories for this transmitter.

- The opening size of the trigger marked S and L cannot be adjusted.
- The opening size of the other can be adjusted.

  The size of the opening must be adjusted by the screw on the side of the trigger.

It recommends to repalce the appropriate trigger according to the actual situation.

Specifications

Product Model	Noble NB4+
Compatible Receivers	FGr4B and other AFHDS 3 receivers
Compatible RC Models	Car or Boat
Number of Channels	8
RF	2.4GHz ISM
Maximum Power	＜20dBm(e.i.r.p.）（EU）
RF Protocol	AFHDS 3
Low Voltage Alarm	＜3.65V
Data Connector	USB Type-C
Charging Jack	USB Type-C
Antenna	External single antenna
Display	3.5-inch 320*480 full dot matrix color IPS touch screen
Resolution	4096
Input Power	1S（4.35V）*4300mAh Lithium Polymer Battery+ 3450mAh 18650 Battery
Distance	>300m (Ground distance without interference)
Firmware Update	Supported
Temperature Range	-10° C~+60° C
Humidity Range	20%~95%
Color	Black
Dimensions	131.41*115.95*190.56mm
Weight	520g
Certifications	CE, FCC ID：2A2UNNB4PLUS00, MIC, RCM, IC: 25584NB4PLUS00

- For more information, please read the full user manual.

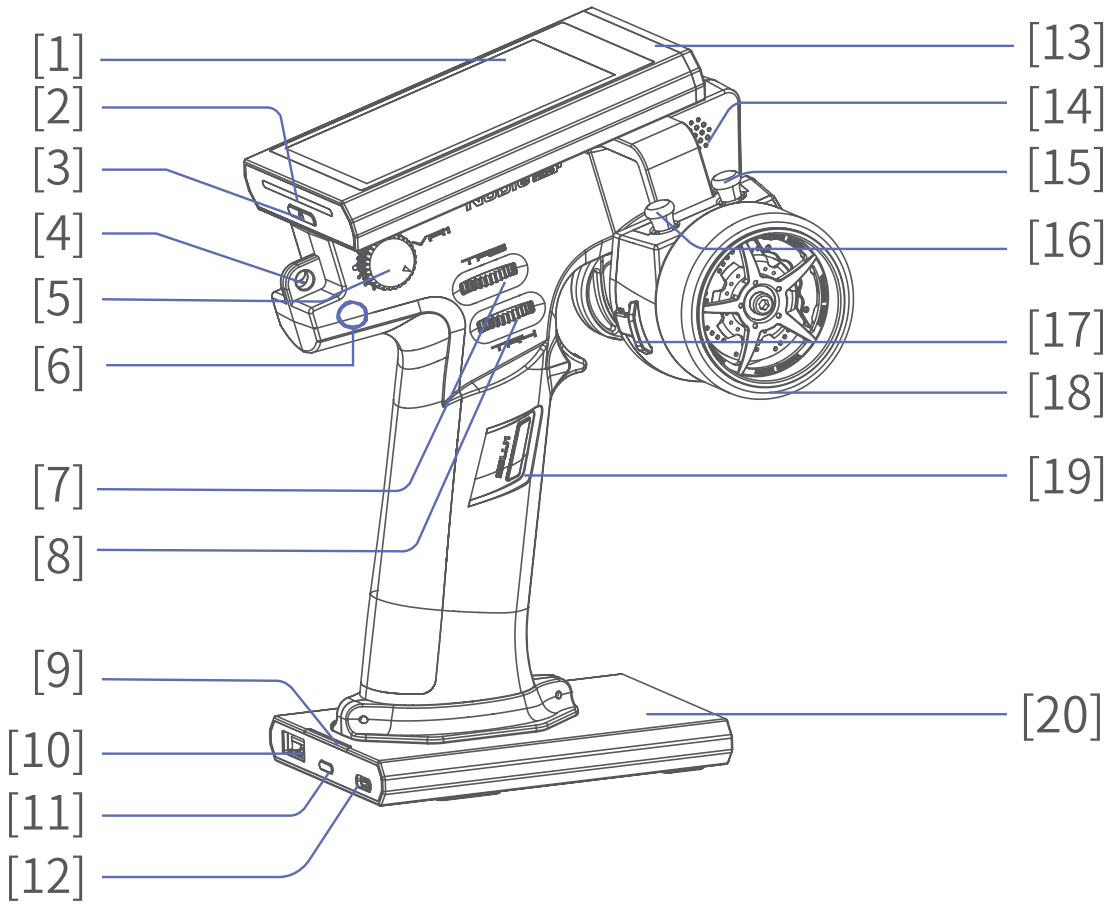
注意事项！

开始操作前请务必在 Flysky 官网下载并阅读《免责声明 & 警告》了解安全注意事项，并在 Flysky 官网下载阅读使用说明书。

Flysky 官网地址：www.flyskytech.com

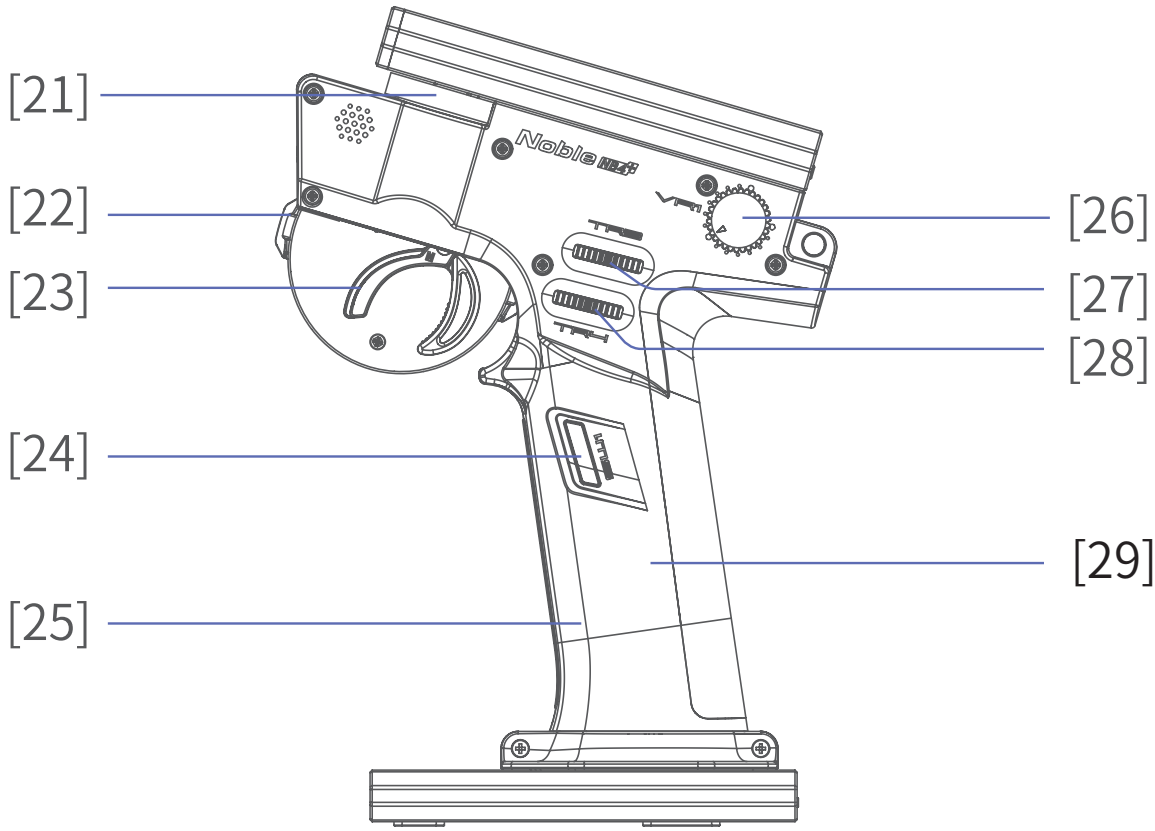
1. CE 警告本发射机所用天线的安装必须与所有人员保持距离，不得与任何其他发射机共用或一起使用。必须向最终用户和安装人员提供天线安装说明和发射机操作条件，以满足射频暴露合规要求。
2. 特此，【ShenZhen FLYSKY Technology Co., Ltd.】声明无线电设备【Noble NB4+，NB4+】符合 RED2014/53/EU.
3. 欧盟 DoC 声明全文可在以下互联网地址：www.flyskytech.com/info_detail/10.html 获取。

右视图：

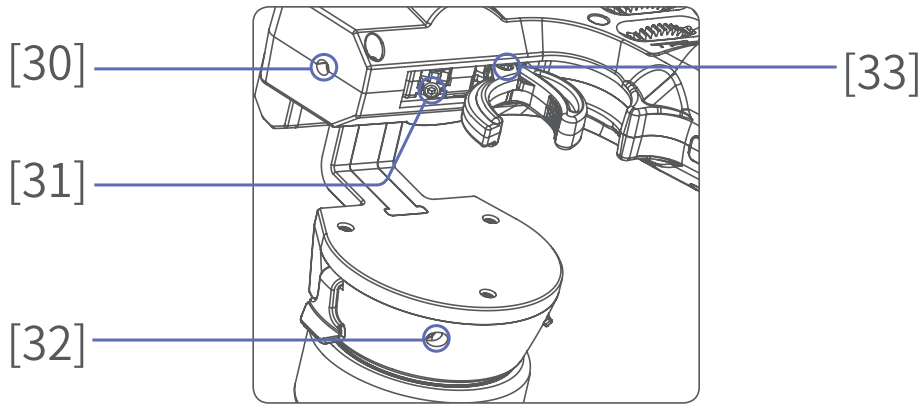


[1] 显示屏
[2] 发射机 LED 灯
[3] 发射机电源键
[4] 吊环
[5] VR1
[6] 强制关机按键（置于手胶底部）
[7] TR3
[8] TR4
[9] 底座电量指示灯
[10] USB 5V 1A 输出
[11] 底座电源键
[12] Type-C 输入接口、固件更新、充电接口、连接模拟器接口、教练接口、头追接口
[13] 内置天线
[14] 喇叭
[15] TR2
[16] TR1
[17] SW2
[18] 手轮
[19] SW1
[20] 充电底座

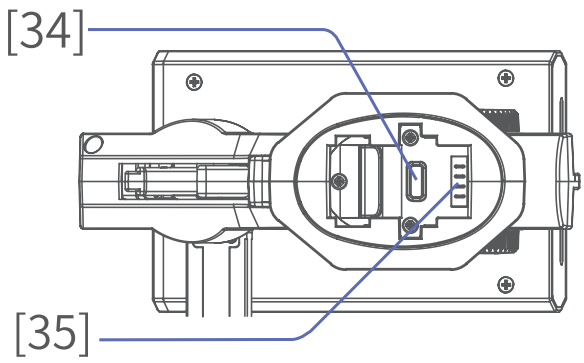
左视图：

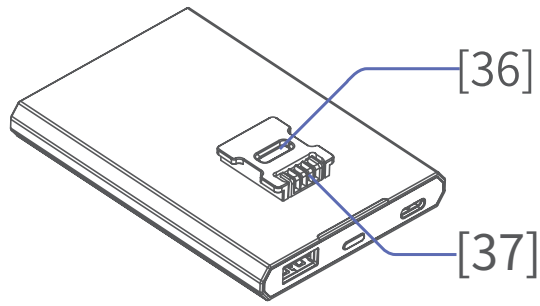


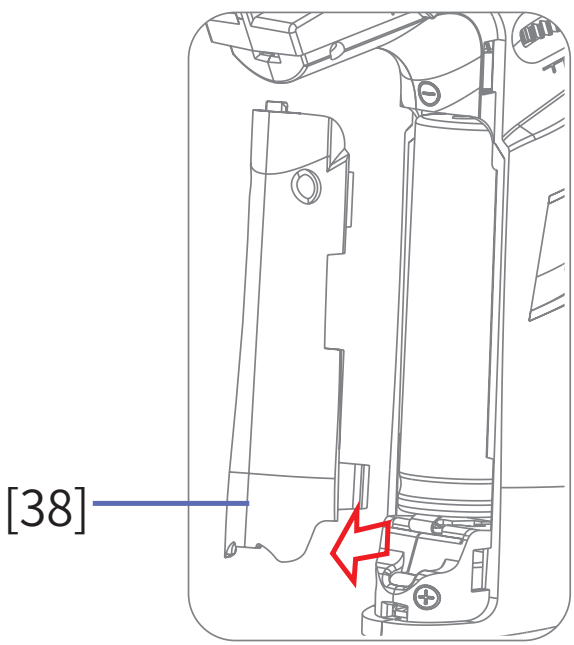
[21] 手轮旋转支架
[22] SW3
[23] 扳机
[24] SW1
[25] 手柄
[26] VR1
[27] TR3
[28] TR4
[29] 电池仓，内置单节 3450mAh 18650 电池



- 注意：调节时请勿将调节螺丝拧出。







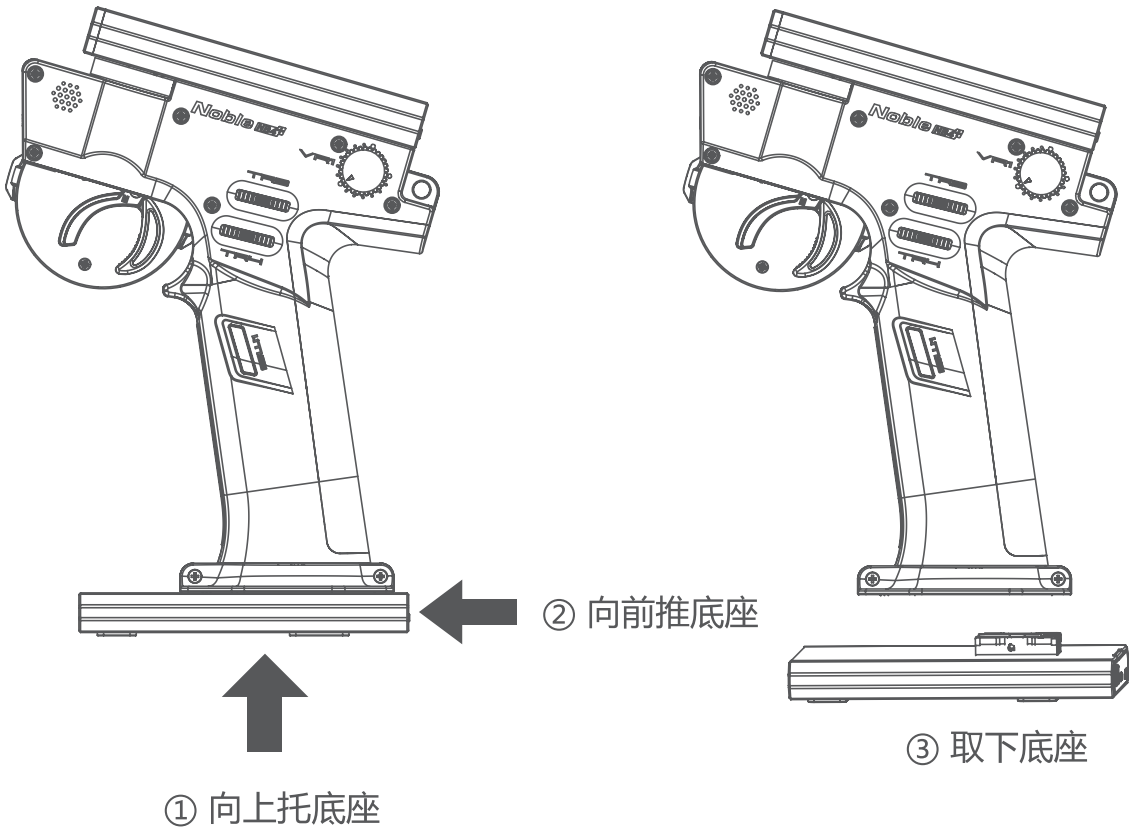
[30] 扳机结构行程调节孔
[31] 扳机松紧度调节孔
[32] 手轮松紧度调节孔
[33] 扳机尺寸大小调节孔
[34] 卡扣
[35] 手柄电源连接口
[36] 卡扣槽位
[37] 底座电源连接口
[38] 18650 电池盖

底座

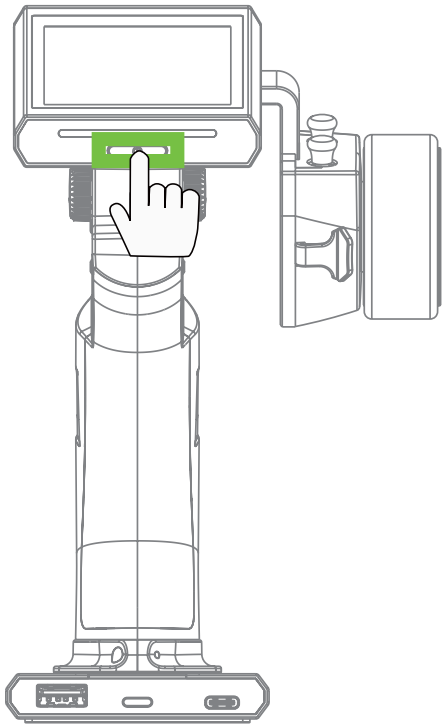
发射机底座可拆卸。

此底座在按压底座电源键后可为发射机供电，也可以通过底座的 USB 输出端为外部电子设备供电。

当发射机需要充电时，通过底座 Type-C 输入端，插入 USB Type-C 线即可充电。



开机



1. 检查系统状态，确保：电池电量充足；
2. 长按发射机电源键，直至屏幕亮起，表示开机。
   - 开机后，系统会弹窗提示当前模型是否设置失控保护。若要关闭失控保护设置提示，则点击 [否] 或通过 [系统设置] 关闭“失控保护提示”。

关机

1. 断开接收机电源；
2. 长按发射机电源键，直至屏幕熄灭，表示关机。

关闭前，请务必先断开接收机电源，然后关闭发射机。如果强行关闭发射机，将有可能导致遥控设备失控或者引擎继续工作而引发事故。

LED 指示灯

Noble NB4+ 有两种 LED 指示灯，分别是发射机 LED 灯、底座电量指示灯。

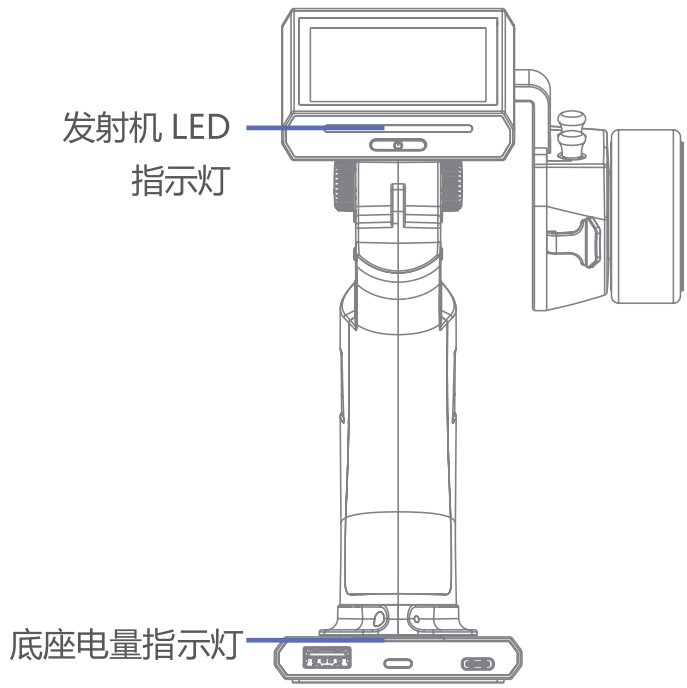
发射机 LED 灯

可自定义 LED 颜色或选择选项里已定义的颜色（红色、绿

色、蓝色、黄色或白色），也可以关闭 LED 灯显示。

功能设置：

1. 点击主界面，进入功能菜单界面，选择进入 [系统设置] 功能；
2. 点击 [LED]，进入设置界面；
3. 根据需要选择颜色，点击 ，显示为 表示选择成功，同时发射机 LED 指示灯会显示对应颜色。
4. 若选择自定义 LED 颜色，则点击 [自定义]，进入设置界面，点选要设置的选项，点击“+”或“-”设置合适的数值，也可直接触屏滑动设置，然后点击 返回，在弹出的提示弹窗中点击 [是] 即完成设置。



底座电量指示灯

由四个 LED 灯组成，主要用于显示底座的电池电量。

当底座电量低时底座 LED 灯将会仅有一个 LED 灯亮同时闪烁； 当底座正在充电时，LED 灯将会闪烁，同时按照实际电量 LED 灯灯亮个数也会变化。

底座电源键操作：

按下底座电源键，底座电量指示灯亮起即给发射机充电或 USB 输出端口输出 5V 电压，可给外部设备充电。再次长按底座电源键，底座电量指示灯灭同时停止充电。

请勿同时给发射机及外部设备充电，否则可能影响发射机充电饱和时间，甚至外部设备负载过大时会触发过载保护。

⚠失控保护

该功能用于在接收机丢失信号或失控后，保护模型和操作人员的安全。

对于失控保护功能，本系统提供了如下的设置方式：

- 设置失控保护判断时间。
- 设置失控时关闭 i-BUS-out 和 PPM 协议接口信号输出，即失控时 i-BUS-out&PPM 接口为无输出状态。
- 按通道设置，即每一个通道设置一个失控保护数值，可设为 4 种模式，[未设置（无输出）]、[通道值无输出]、[固定值] 或 [保持]。
- [设置所有固定值通道]，即失控时，将设为固定值的所有通道设置为当前通道输出值。
- 可测试失控保护功能。可模拟模型失控后，发射机将关闭高频输出 , 模型进入失控状态，所有通道按失控保护设置输出。

测试失控保护功能

模拟模型失控后，发射机关闭高频输出，模型进入失控状态，所有通道按失控保护设置输出。

功能设置：

1. 点击  ，系统弹出操作提示。长按  超过 1 秒，系统切断高频输出。此时接收机按失控保护设置输出通道值；
2. 放开  后即恢复通信。

失控保护判断时间

用于设置失控保护判断时间。设置范围为 250ms~1000ms。默认 300ms。

功能设置：

1. 点击 [失控保护判断时间] 进入设置界面；
2. 点击 [+]/[-] 设置时间，点击  返回上一级界面。

i-BUS&PPM 无输出

点击选项右侧  ，取消后，失控后按各通道设置：固定值或者保持最后输出值。系统默认开启状态。

此功能开启后，不管各通道失控保护如何设置，这两类信号失控保护始终为无输出。

设置单独通道

1. 选择所需要的通道，进入此通道设置界面；

2. 根据需要选择点击对应功能，移动对应通道的扳机、手轮、按键、或旋钮至所需设置位置并且保持不动，点击返回图标即设置完成。

设置所有固定值通道

点击 [设置所有固定值通道] 后，需同时将控件拨到需要的位置并保持，在弹出的提示弹窗“设置所有失控保护为固定值的通道失控保护值为当前输出值”，点击 [是] 即完成设置。

⚠注意	• 为保证安全，请用户在使用前预先设定好失控保护值

舵机响应速度

此功能用于调节通道输出控制舵机频率，该功能包括模拟舵机（95Hz）、数字舵机（380Hz）、自定义，可根据使用的舵机选择或设置正确的输出频率值，系统默认数字舵机，自定义频率调节范围在 50-400Hz 之间。

连接不同的接收机，舵机响应速度的功能略有不同。

连接经典版接收机

功能设置：

1. 点击进入 [舵机响应速度]；
2. 根据需要选择点击对应功能，点击 返回上一级界面；

   若发射机高频设置选择 [AFHDS3 单向], 修改舵机响应速度再按退出按钮 将弹出提示“对码或重新对码后生效，是否对码？”

3. 若选择 [自定义]，请点击屏幕 “+” 或 “-” 进行频率调节。

连接增强版接收机

[SR]: 舵机响应速度中的一种规格（PWM 频率为 833Hz）。

[SFR]: 舵机响应速度中的一种规格（PWM 频率为 1000Hz）。

注：当选用 SR（PWM 频率 833Hz)、SFR(PWM 频率 1000Hz）时整个系统的延时会减小，但此时 PWM 信号脉冲区间已经发生了变化。请确保适配的舵机为支持相应频率的数字舵机并且设置匹配，否则可能导致舵机无法正常工作，甚至损坏舵机。

功能设置：

1. 点击 [方向：数字舵机] 或其他选项进入功能设置界面；
2. 根据适配接收机的实际情况选择点击对应舵机响应速度，点击 返回上一级界面；若选择 “与高频同步”，则点击 [与高频同步 的勾选框，图标将会变为 ，勾选后 PWM 输出与（RF）无线信号接收的时序同步；

3. 若选择 [自定义]，点击 “+” 或 “-” 调节频率。

模拟舵机（95Hz）、数字舵机（380Hz）为市场上较通用舵机频率值，故单独设定以便用户快捷操作，为了使舵机正常运行，请先查阅舵机使用说明书确认舵机正确频率，然后通过该功能对舵机频率数值进行更改。

固件更新

此发射机的内置软件程序能够通过使用 USB Type-C 线与 windows 计算机连接后进行软件更新升级。一旦此功能被激活后，发射机所有功能将停止工作。为了防止车辆失去控制，请在进入此功能前断开接收机电源。

⚠警告	• 当固件正在更新时请勿断开 USB Type-C 线

固件更新可通过如下两个途径完成。

- 可使用 “遥控管家” 进行更新（富斯遥控管家固件可从官网 www.flyskytech.com 获取）；
- 或通过如下步骤更新：
  1. 下载并打开最新的官方软件；
  2. 将发射机通过 USB Type-C 线与电脑连接；
  3. 点击 [固件更新]，界面弹出提示 “更新固件可能会导致模型数据恢复成出厂默认值 是否更新？”，点击 [是] 即可进入更新状态。
  4. 完成以上步骤后，在电脑更新软件窗口点击 [Update] 后开始更新；

5. 更新完成后，发射机将会自动退出更新状态，重新开机。（断开 USB Type-C 线连接，并关闭电脑更新软件）

⚠ 注意	• 系统更新完成后可能会导致接收机无法连接 , 此时需要更新高频与接收机

更新高频

更新步骤：

更新 RF 功能可更新内置 RF 模块固件。

当发射机更新固件后，提示高频故障或对码不了接收机时，需要更新高频。

点击 [更新高频] 更新，弹出提示界面后点击“是 " 后界面弹出更新进度条，等待几秒后更新完成后发射机自动退出更新界面。如发射机无法进入更新高频状态，可能是无高频模块或高频模块故障。

更新接收机

当发射机更新程序后，为了实现功能的优化，对应的接收机也需要更新程序。

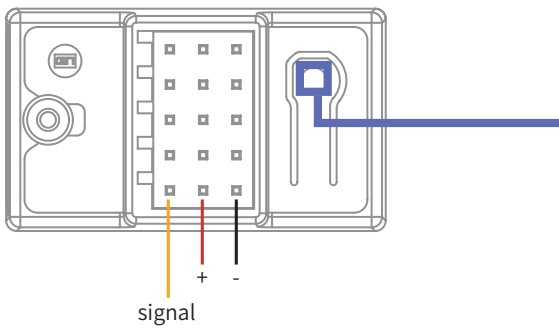
不同的接收机进入固件更新状态的方式可能不同，请进入官网 www.flyskytech.com 中查询相关接收机的说明书进行操作。

更新步骤：

点击 [更新接收机]：

- GMr 等一部分接收机需使用“富斯遥控管家”进行更新。

- 如果发射机已经对码成功，并且建立连接，如接收机为最新版本，则弹出提示 [当前版本已是新版本，无需升级！]。若接收机为旧版本，则弹出提示 [确定将接收机更新吗？]。弹出提示框后选择“确定”，点击 [升级] 即可将接收机更新。
- 如果接收机与发射机未建立连接，则进入选择接收机界面，勾选需要连接的接收机之后弹出提示 [请连接 XX 或使 XX 进入强制更新模式]，点弹出提示框后选择“确定”，点击 [升级] 进入更新状态！



可通过两种方式使接收机进入强制更新状态：

1. 按下对码键，上电 10 秒后指示灯三闪一灭，松开对码键；

2. 先给接收机上电，长按对码键 10 秒后指示灯三闪一灭，松开对码键。

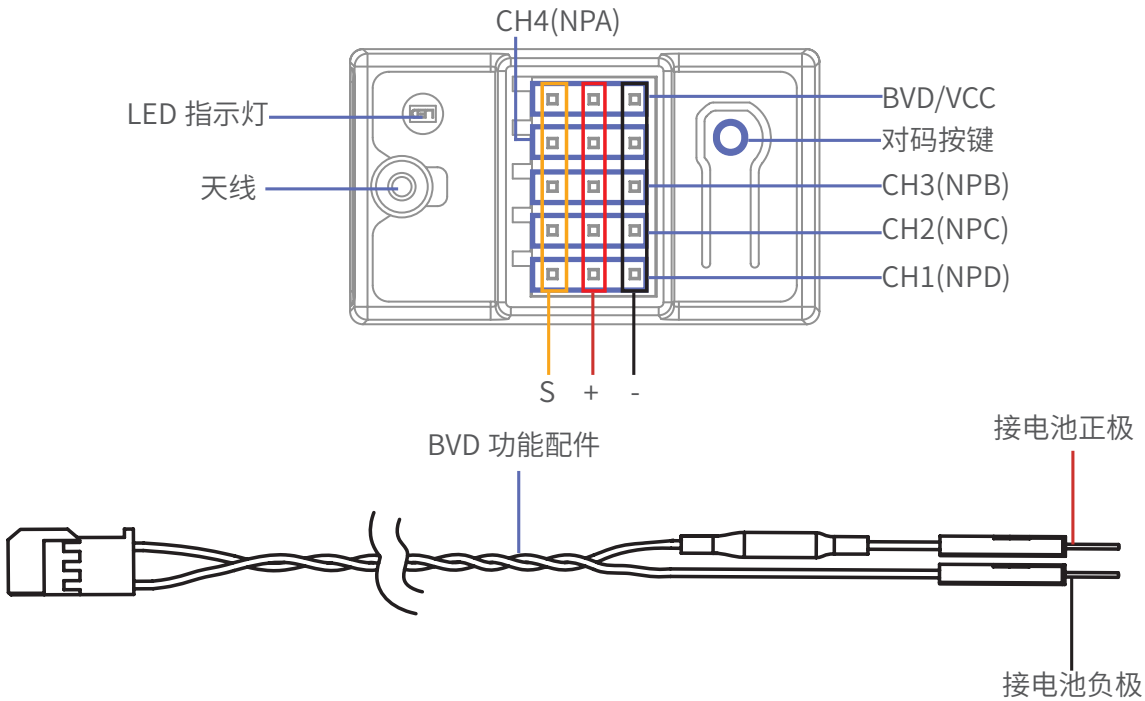
强制更新模式

进入更新后，显示如图画面，进度 100% 时，更新成功。

- 更新接收机前，建议先更新发射机。

对码

本发射机和接收机在出厂前已对码成功。如果您需要对码时，请按照如下步骤进行对码：

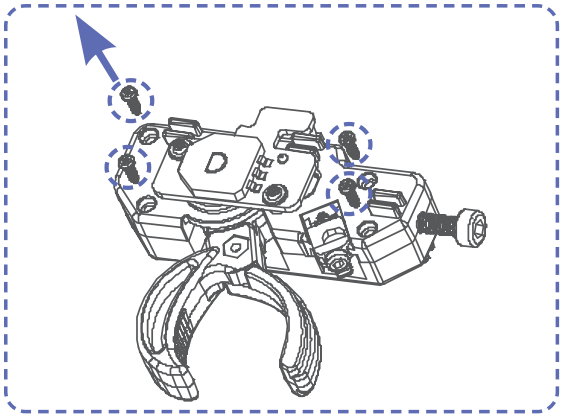


1. 使发射机进入对码状态；
2. 按住接收机对码按键同时上电后松开对码键（或者先给接收机上电后，长按对码键 3 秒），接收机指示灯快闪，表示进入对码状态；
3. 当接收机指示灯变为常亮时，对码成功；
   - 当对码的发射机是单向模式进入对码状态时，接收机收到对码信息后指示灯慢闪；然后手动将发射机退出对码状态，接收机指示灯变为常亮表示对码成功；
4. 检查发射机、接收机、模型是否正常工作。如需重新对码，请重复以上步骤。

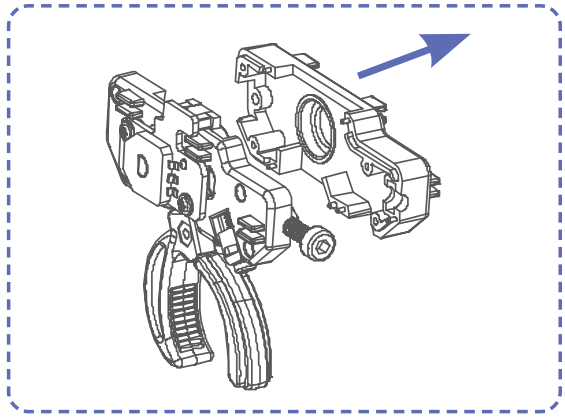
此步骤适用于 Noble NB4+ 与 FGr4B 的接收机对码，如您使用的是其他接收机，请进入官网查询对应接收机的使用说明书进行操作。

扳机弹簧更换说明

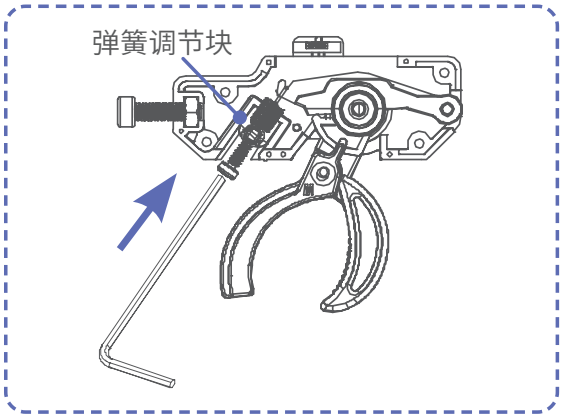
1、取下 4 颗螺丝（PA 1.5*5mm）；



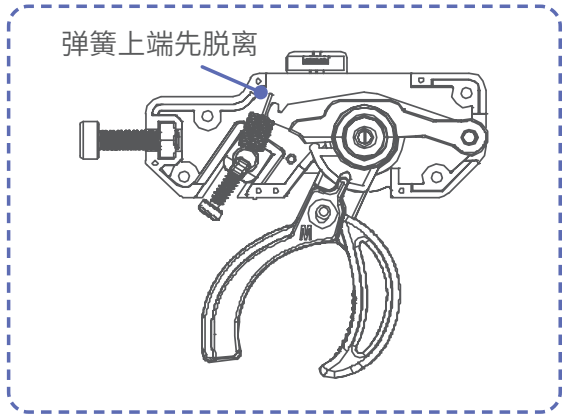
2、 取下扳机上盖；



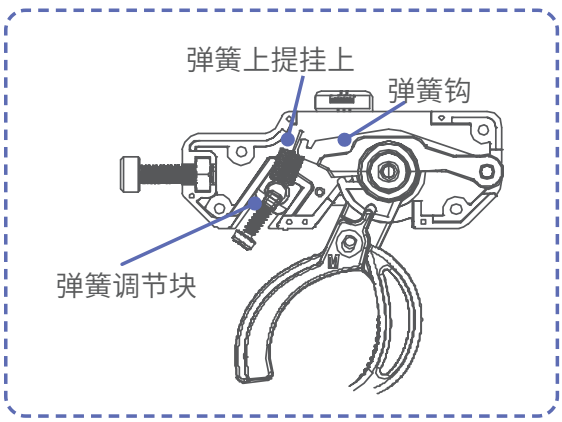
3、 用 1.5mm 六角扳手调节螺丝（HB2*9mm），把弹簧调节块调到最底部；



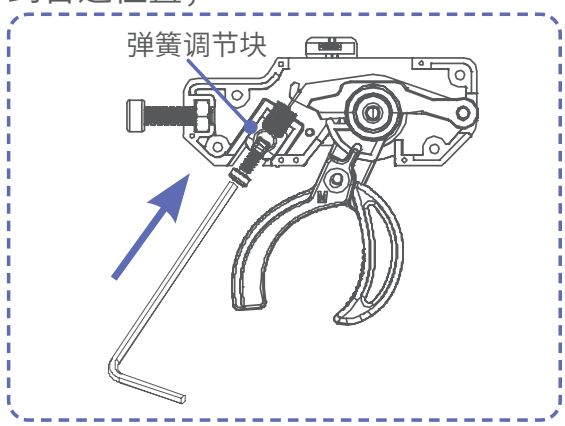
4、上提弹簧上端先从挂扣处脱离，最后取下弹簧；



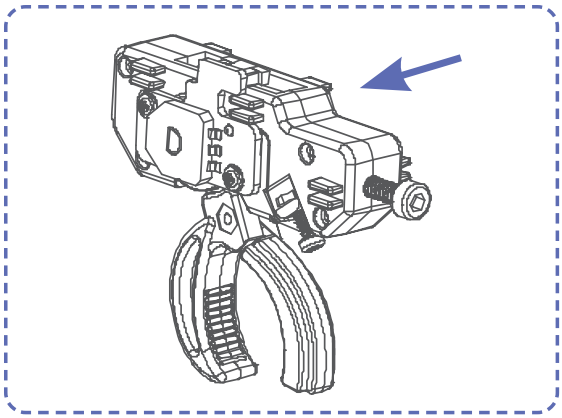
5、弹簧下端先挂上弹簧调节块，弹簧上提挂上弹簧钩；



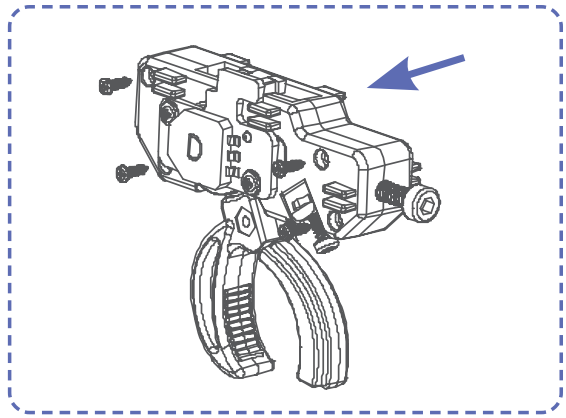
6、 用 1.5mm 六角扳手调节螺丝（HB2*9mm），把弹簧调节块调到合适位置；



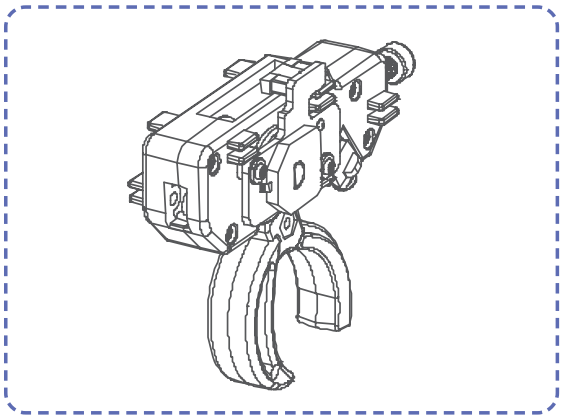
7、装配上盖；



8、锁上 4 颗螺丝（PA 1.5*5mm）固定扳机上下盖；

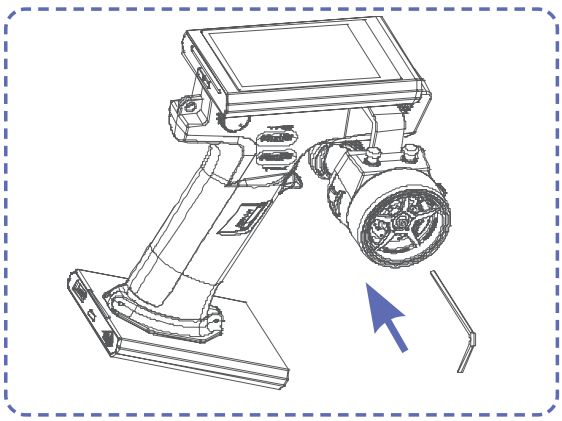


9、 扳机弹簧更换完成。

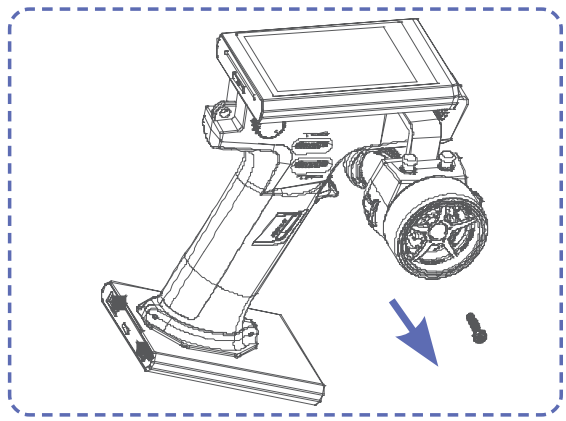


手轮弹簧更换说明

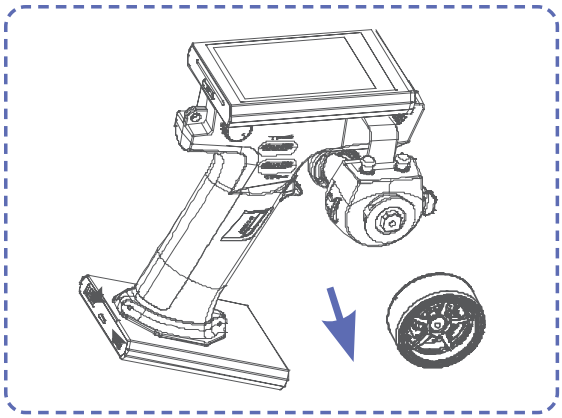
1、先将 2.5mm 六角螺丝刀插入用于固定手轮的螺丝孔中；



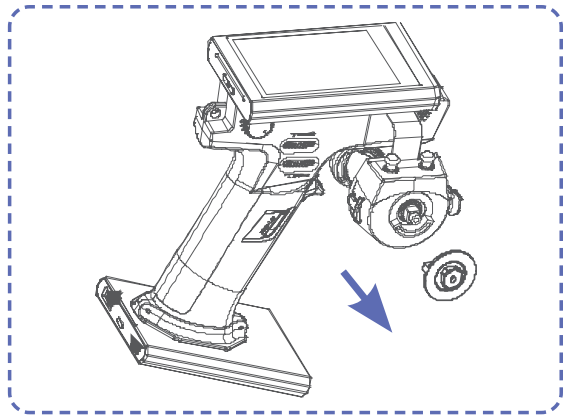
2、再逆时针转动 2.5mm 六角螺丝刀直至螺丝（HM3*12mm）完全松动后取出；



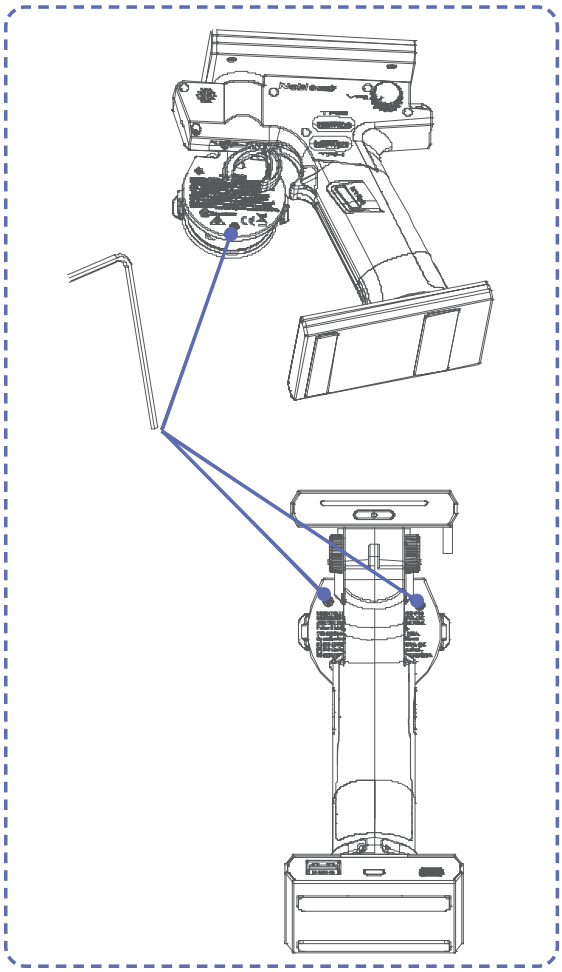
3、取下手轮；



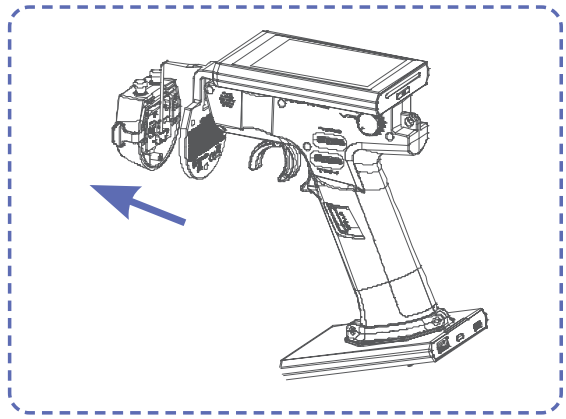
4、两指捏住原先装好的刹车片并用力向上取出；



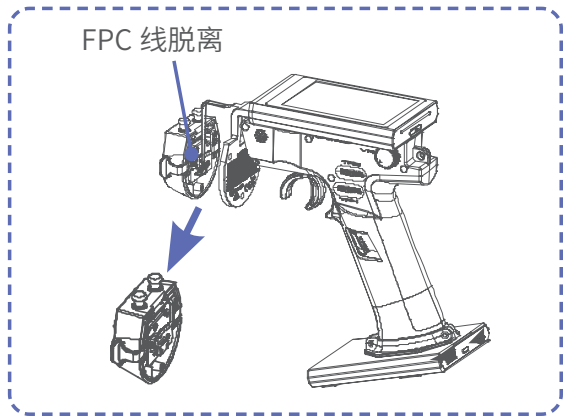
5、用 1.5mm 六角扳手逆时针旋转取下螺丝；



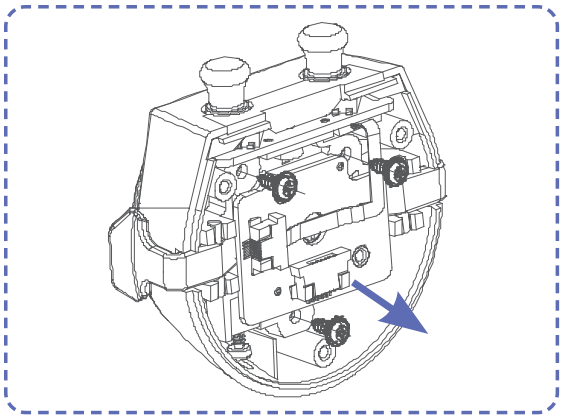
6、手轮固定座脱离；



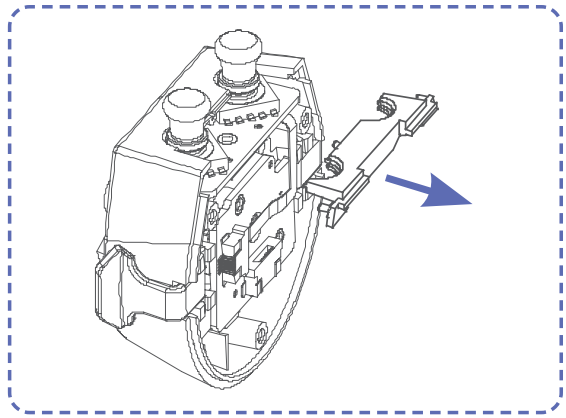
7、FPC 线脱离，取下手轮固定座；



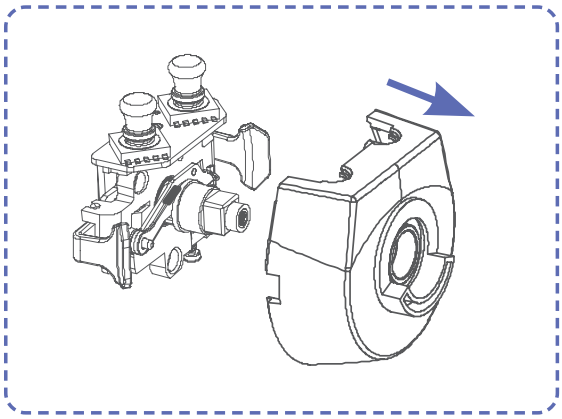
8、取下螺丝（PWA 2.1*6mm）；



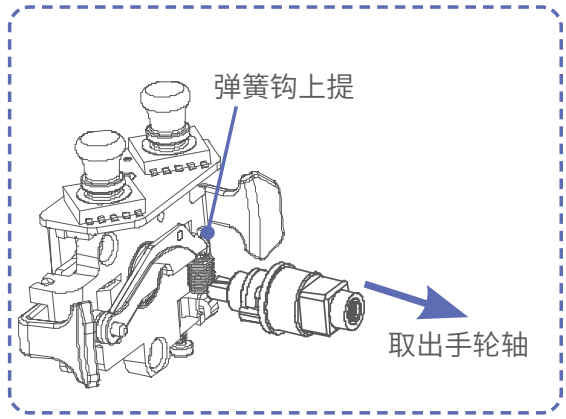
9、取下盖板；



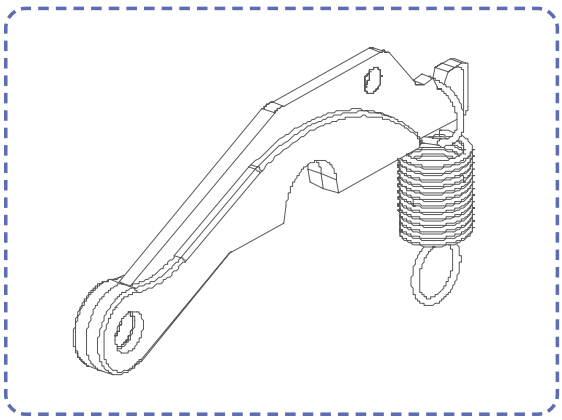
10、取下轮盘上盖；



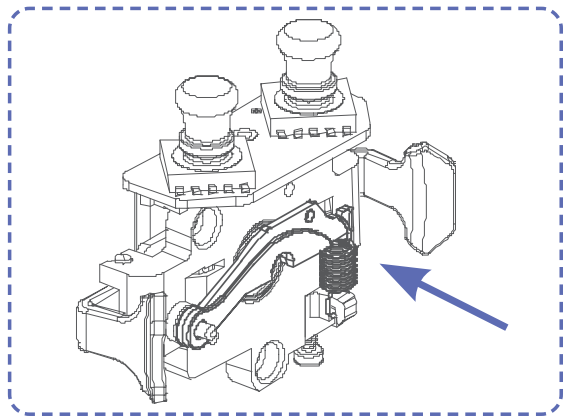
11、一手上提弹簧钩，一手取出手轮轴；



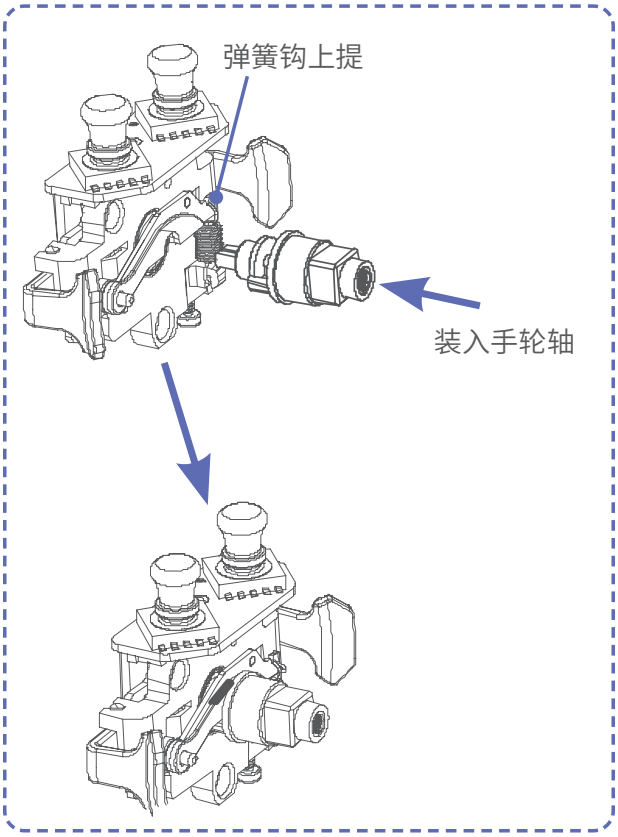
12、取下弹簧钩及弹簧组件，并且更换弹簧；



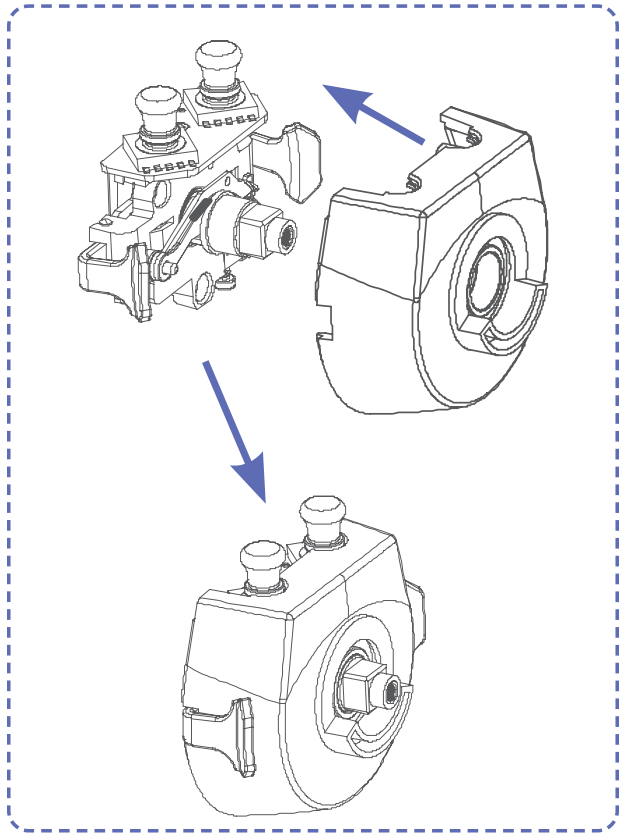
13、 装配弹簧钩组件；



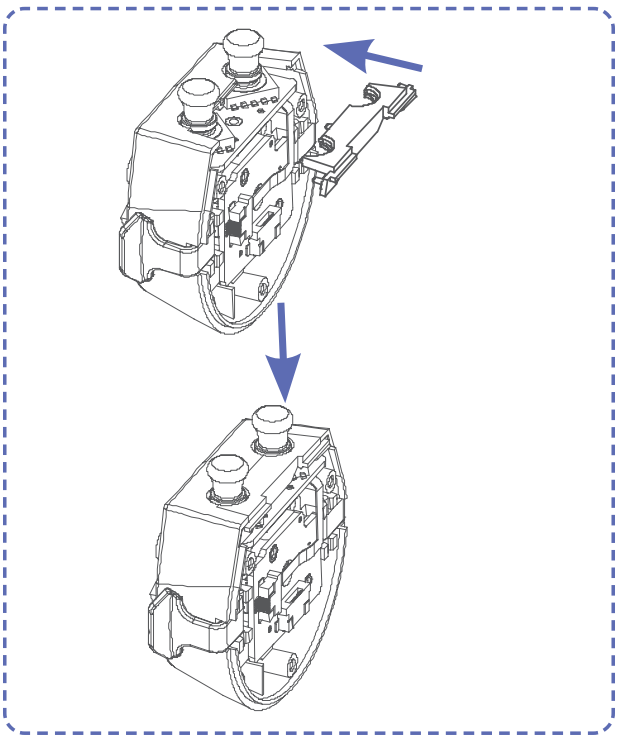
14、一手上提弹簧钩，一手装配手轮轴；



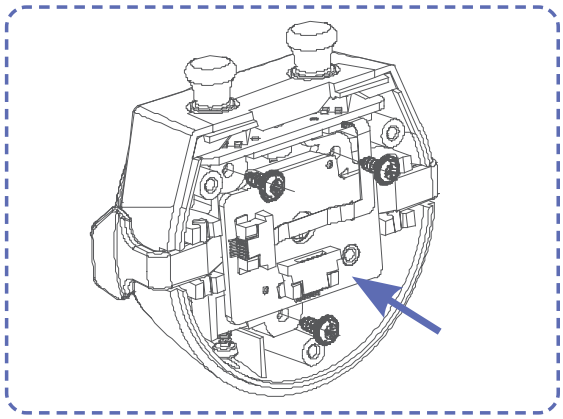
15、装配轮盘上盖；



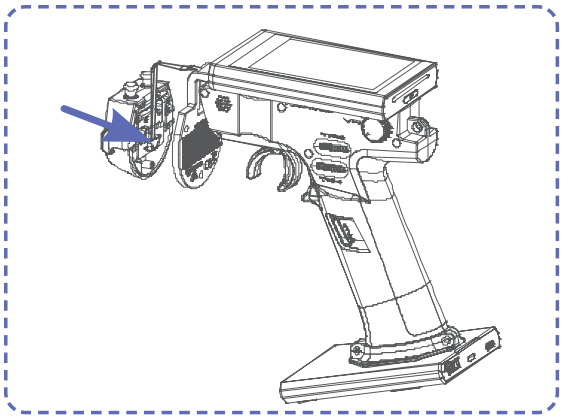
16、装配盖板；



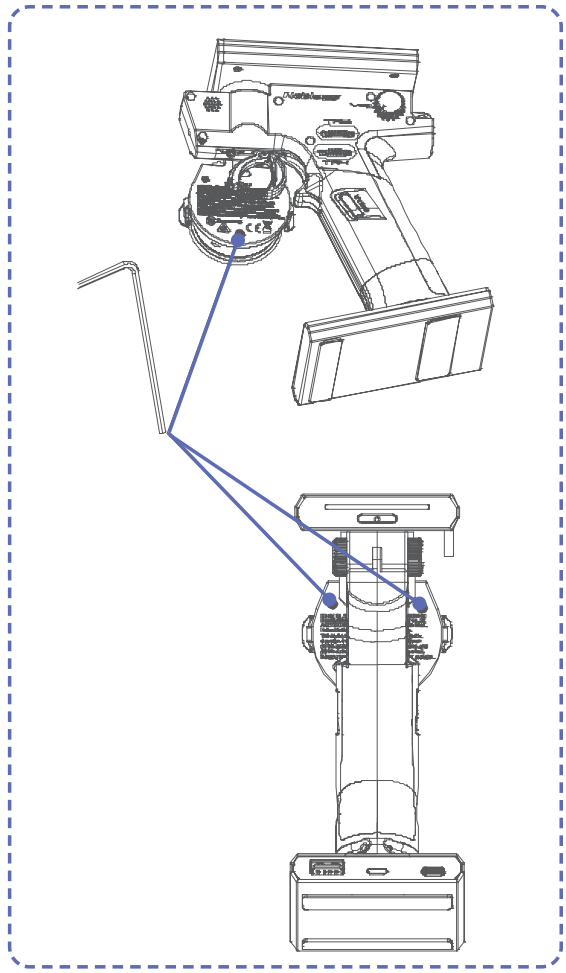
17、锁上螺丝（PWA 2.1*6mm）；



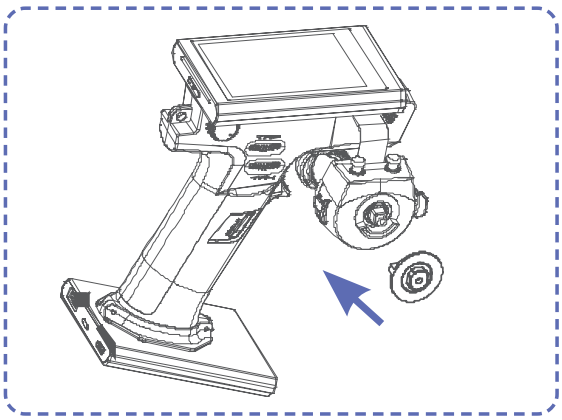
18、连接 FPC 线；



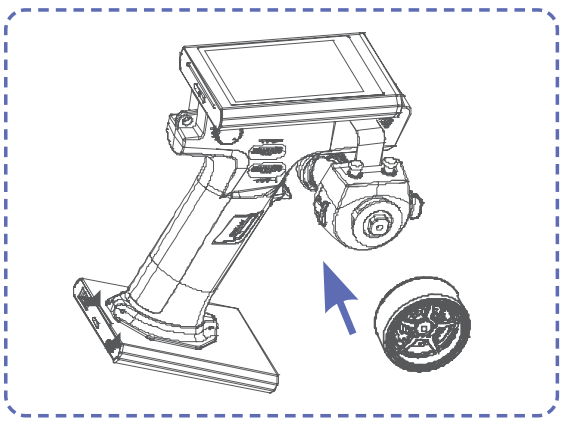
19、锁紧螺丝（HB2*9mm）；



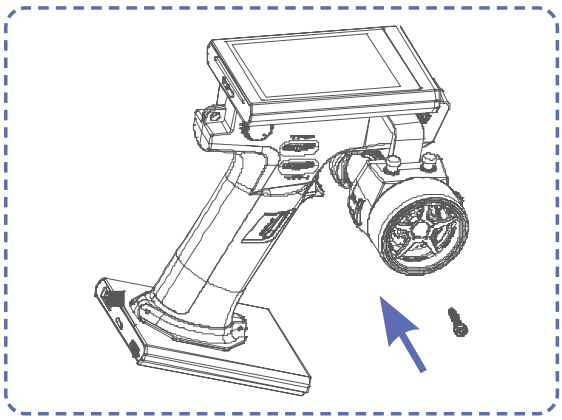
20、装配刹车片；



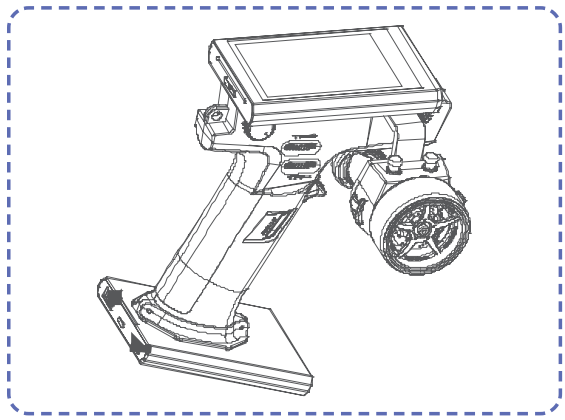
21、将带有刹车片调节孔的手轮的安装槽套住刹车片上突出的连接头，按压手轮使其固定；



22、把螺丝（HM3*12）插入用于固定手轮的螺丝孔中，再将 2.5mm 六角螺丝刀对齐螺丝钉头部的六角孔，用手握住手轮侧面，另外一只手顺时针转动螺丝刀直至螺丝固定；



23、手轮弹簧更换完成。



扳机调节块说明

本发射机包装附件里包含三款扳机调节块。

- 标识 S 和 L 的扳机调节块不能调节扳机开口大小；
- 另外的一个扳机调节块可调节扳机开口大小。
  开口大小须通过扳机侧面的螺丝调节。

可根据实际情况选择合适的扳机调节块。

规格参数

产品型号	Noble NB4+
适配接收机	FGr4B 等 AFHDS 3 协议接收机
适配模型	车、船
通道个数	8
无线频率	2.4GHz ISM
发射功率	＜ 20dBm
无线协议	AFHDS 3
低电压报警	＜ 3.65V
数据接口	USB Type-C
充电接口	USB Type-C
天线类型	内置单天线
显示方式	3.5 英寸 320*480 全点阵彩色 IPS 触摸显示屏
通道分辨率	4096 级
输入电源	1S（4.35V）*4300mAh 锂聚合物电池 + 3450mAh 18650 电池
遥控距离	>300m（空旷无干扰地面距离）
固件更新	支持
温度范围	-10° C~+60° C
湿度范围	20%~95%
机身颜色	黑色
外形尺寸	131.41*115.95*190.56mm
机身重量	520g
认证	CE, FCC ID：2A2UNNB4PLUS00, MIC, RCM

- 关于 Noble NB4+ 发射机的更多操作请阅读使用说明书。

微信公众号

Bilibili

Website

Facebook

FCC ID: 2A2UNNB4PLUS00

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Manufacturer: ShenZhen FLYSKY Technology Co., Ltd.
Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China