

PWM Pair and connect devices

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1. Install the model aircraft remote control battery

First slide down the battery compartment cover of the model aircraft remote control to open, then install four AA batteries into the battery compartment of the model aircraft remote control in the order of the positive and negative poles of the battery compartment, and then close the battery compartment cover.

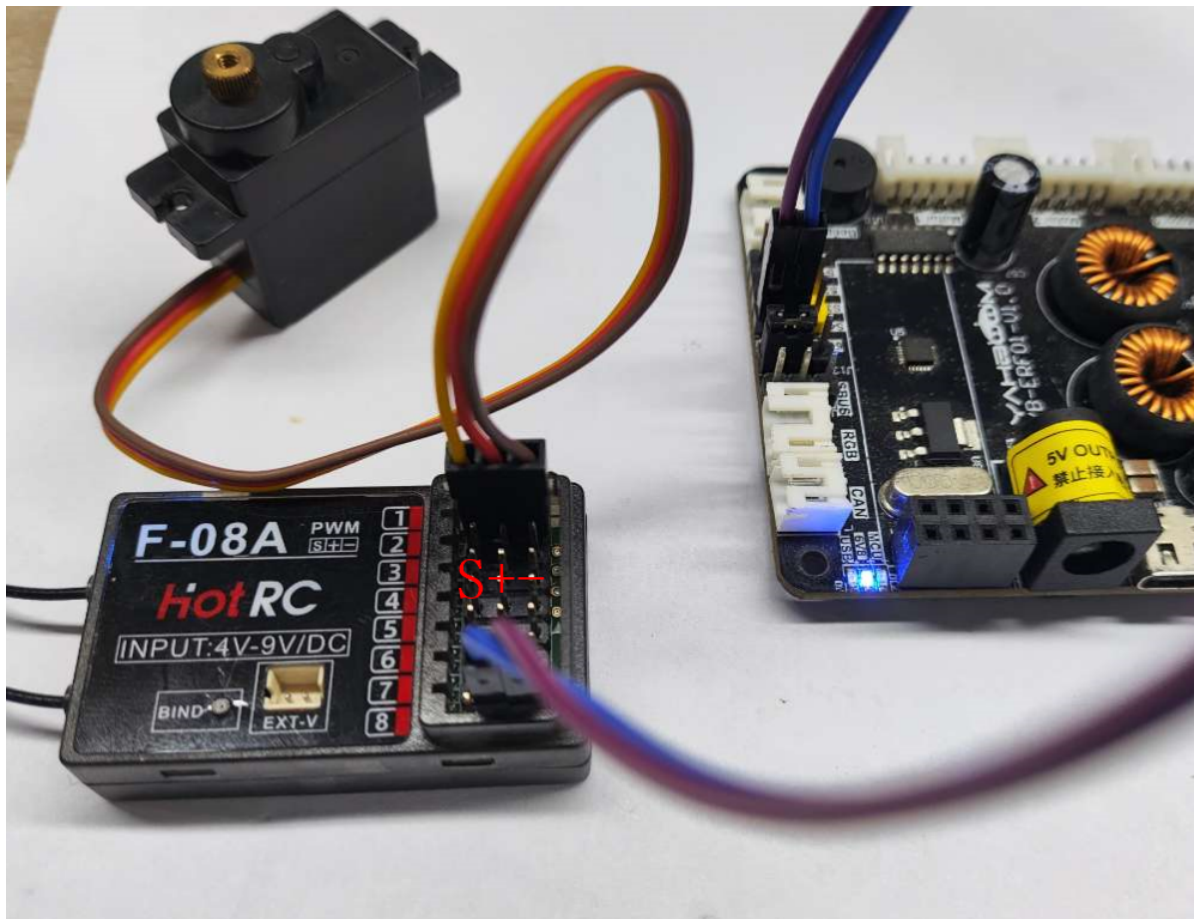
Install the battery as shown below:



2. PWM receiver power supply

Power supply voltage: supports wide voltage 4-9V input. Input the corresponding voltage range according to the servo operating voltage range. Use Dupont wires to power the positive and negative poles of any interface in channels 1-8 respectively. (The receiver line sequence from left to right is(S, +, -))

Take the metal servo as an example, the operating voltage is: 4.8V-6V, use the ROS expansion board to input 5V voltage to the PWM receiver.



3. Pairing, connecting and using devices

- ① Power the PWM receiver. The LED on the PWM should flash green slowly.
- ② Press and hold the BIND button on the PWM receiver for about 1 second. When you see the green LED flashing quickly, it means that the pairing state has been entered.
- ③ Turn on the power of the aircraft model remote controller. The aircraft model remote controller will automatically pair with the PWM receiver when it is turned on.
- ④ After the pairing is successful, the green LED on the PWM receiver will be on.
- ⑤ Press and hold the BIND button for 3 seconds to switch to different servo modes:

Blue light on: digital servo mode, PWM output frequency 333HZ, pulse width 500us-2500us.

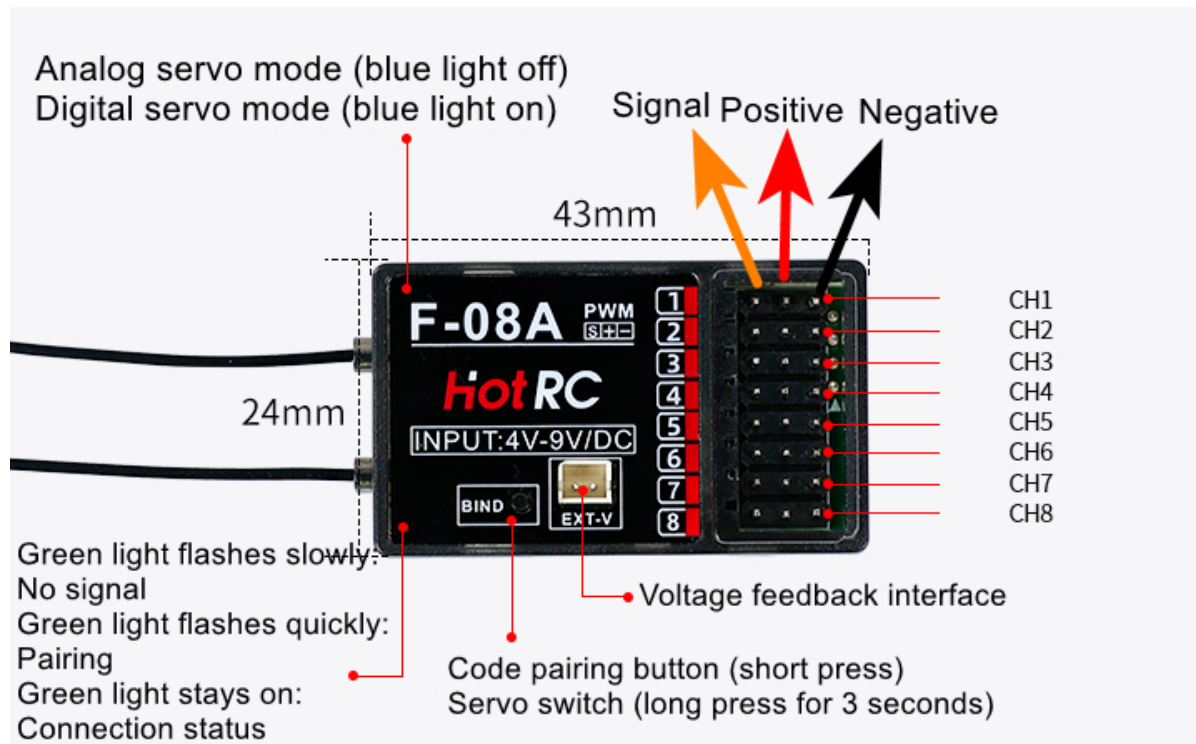
Blue light off: analog servo mode, PWM output frequency 50HZ, pulse width 1000us-2500us.

Note:

The aircraft model remote controller and the PWM receiver only need to be paired once. The next time it is turned on, it will automatically connect without pairing again.

In the connected state (LED light is always on), the pairing state cannot be entered.

4、 PWM receiver function explanation



5、 The corresponding positions of the eight channels of the PWM receiver and the remote control of the aircraft model



PWM channel	Model aircraft remote control position
NO.1 channel	Rocker② Left and right control
NO.2 channel	Rocker② Up and down control
NO.3 channel	Rocker ① Up and down control
NO.4 channel	Rocker ① left and right control
NO.5 channel	③SWA-5
NO.6 channel	④SWA-6
NO.7 channel	⑤SWA-7
NO.8 channel	⑥SWA-8