MX EVO RX-SANWA FH5 Manual

Thank you for choosing the MXO-RACING products, please read this document carefully before using it!

The MX EVO RX-SANWA FH5 is a SANWA FH5 compatible ultra-miniature receiver for KYOSHO's MR-03EVO ,MA-03EVO/MR-04EVO, with an output speed of up to 0.86ms in EVO mode. It can work not only in EVO mode, but also in 4CH PWM standard signal mode.

In addition, we are developing miniature sensor brushless ESCs and other related products that can be directly mounted on this receiver.

Features：

- Size: 13.5*10.0*3.5mm;
- Weight: 0.72g;
- Working voltage: 3.0V or 3.3V;
- Compatible with SANWA FH5 protocol;
- Support EVO and 4CH PWM two working modes;
- The output speed in EVO mode is 0.86ms;
- The output speed in 4CH PWM mode is 2.6ms;

BIND Operation:

1) Install MX EVO RX-SANWA FH5;

2) Turn on the transmitter and set it to FH5, then put the transmitter into BIND mode;

3) Press the BIND switch on the receiver, then power on the receiver or turn on the MINIZ power supply;

4)When the red and blue LEDs flash at the same time and then only the red LED flashes, it means BIND is complete;

5) Set the transmitter to exit BIND mode, then the red LED on the RX turns off and the blue LED stays on, indicating that BIND is successful;

Note: The process of only the red LED flashing after the red and blue LEDs flash at the same time is very fast and may not be observed.

LED status indication:

The red and blue LEDs on the MX EVO RX indicate the working status of the RX:

1) When the red LED flashes and the blue LED is off, it means that the RX is waiting to receive a signal;

2) When the red and blue LEDs flash, it means that the RX is in BIND mode;

3) When the red LED is off and the blue LED is always on, it means that the RX has stably received a signal.

How to set up the transmitter (when MX EVO RX is used on MR-03EVO/MA-03EVO/MR-04EVO):

Because the brushless ESCs and servos on MR-03EVO/MA-03EVO/MR-04EVO cannot set the midpoint and end point, the user can only set the transmitter to adapt to the parameters of MR-03EVO/MA-03EVO/MR-04EVO. The settings are as follows:

1) TH TYPE > F5 : B5

2) EAP: ST > L150%   R150%

TH > H150%   B150%

3) D/R: ST > 100%

TH   >   100%

4) REV: ST   >   REV

                    TH   >   REV

Note: Points 2 and 3 can be adjusted according to user habits, and point 4 can be set according to the actual situation.

How the MX EVO RX works in EVO mode:

When the user installs the MX EVO RX on KYOSHO's MR-03EVO/MA-03EVO/MR-04EVO frame or other products that support EVO mode, the MX EVO RX will work in EVO mode.

In EVO mode, the red LED on the MX EVO RX flashes when the RX is just powered on, and the red LED goes out after receiving the signal, and the blue LED is always on.
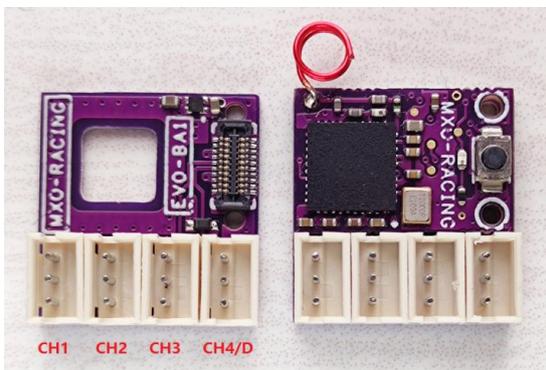
Note: When using the MX EVO RX on the MR-03EVO and MA-03EVO, be sure to install it in place, otherwise it may burn it; if necessary, add a small piece of sponge to the receiver compartment cover of the MR-03EVO and MA-03EVO to press the MX EVO RX.

How the MX EVO RX works in 4CH PWM mode:

When the user installs MX EVO RX on EVO-BA1 or other products that support 4CH PWM mode, MX EVO RX will work in 4CH PWM mode.
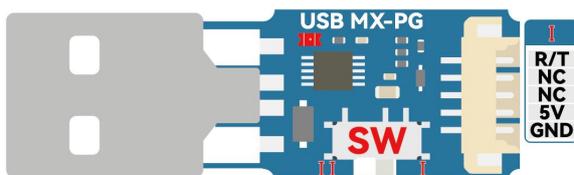
In 4CH PWM mode, when MX EVO RX is just powered on, the LED on the RX will flash several times quickly and then become solid, and the red and blue LEDs will be solid after receiving a signal.

The picture below shows the EVO-BA1 on the left and the EVO-BA1 with the MX EVO RX installed on the right:

How to read RX firmware version:

This function requires GUI support on the PC side, and the receiver and GUI need to be connected through the MX USB-PG-ISP. The remote control must be turned off before the receiver is connected to the GUI, otherwise the receiver cannot be connected to the GUI.

Note: 1) The SW switch on the MX USB-PG-ISP must be moved to the "I" position;

2) When the GUI is connected to the MX EVO RX, the transmitter must be turned off, otherwise the GUI cannot correctly read the information of the MX EVO RX.

3) When the MX USB-PG-ISP is connected to KYOSHO's MINI-Z product, the cable needs to be replaced;

4) MX EVO RX-SANWA FH5 does not support online firmware upgrade function.

GUI download link: update.crossover-rx.com/mxo.zip

Please contact us if you have any feedback or suggestions, thank you!
Email: mxo@mxo-rc.com   &   info@mxo-racing.com