

New World Industries Inc.

RF-5000-1 thru-8EF Wireless Controller

The RF-5000 wireless controller is a compact unit with two parts. One part is the base unit and the other piece is the keyfob or Transmitter actuator. Base units are available with 1 thru 8, VDC momentary or optional latching outputs that can be used to trigger the outputs on all of NWI's standard line of controllers or other devices. The keyfob or 8 button Transmitter is used to send a corresponding signal to the base unit to act as a remote switching device.

These units can be ordered in a variety of configurations. With the double-pull option, the user can activate up to 8 functions that turn on a pump/motor coil simultaneously. Also available is latching circuits. This can act as an on/off switch to a component. See wiring instructions to connect the receiver to the desired function using the color-coded wires.

Set-up and Operation

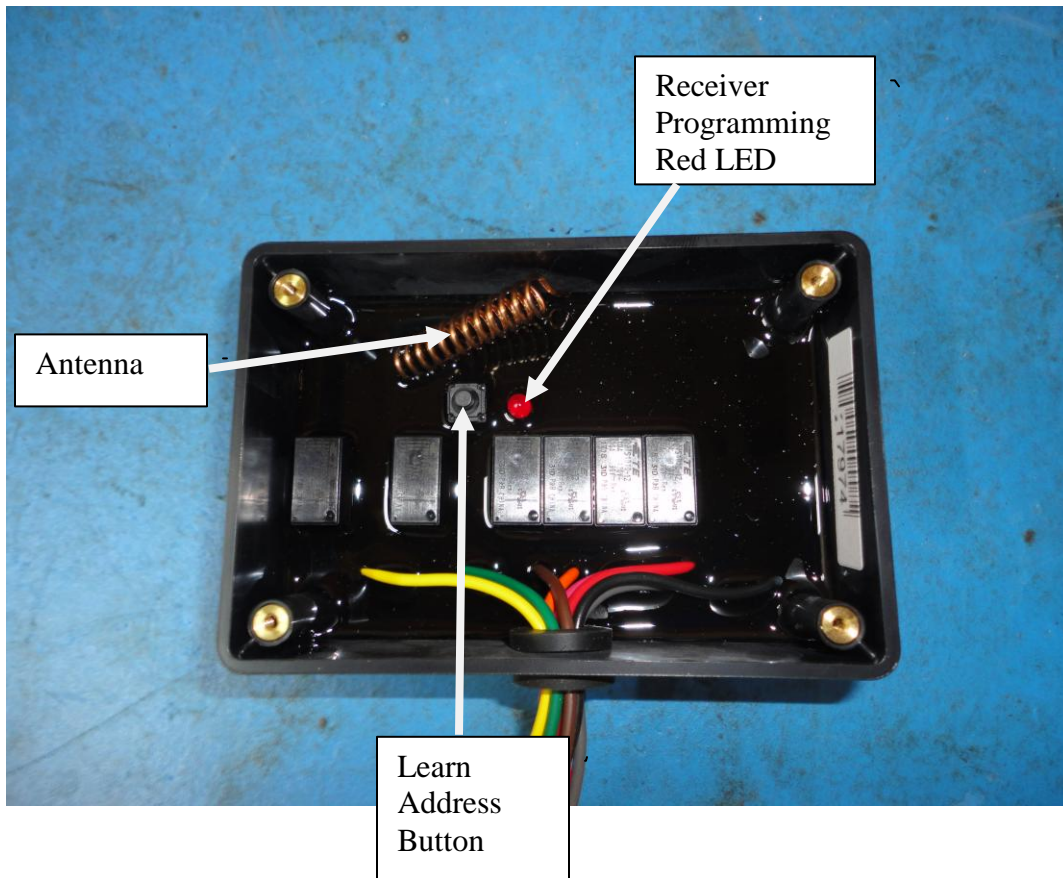
All RF-5000 controllers come factory un-programmed. That means matching the base unit to the keyfob/8 button transmitter is done by the end-user. This gives a matched (1 of 16 million combinations @ 418MHz) interface between the keyfob and base unit. See **Figure 1** for keyfob button assignments. (8 buttons transmitter is numbered)



Fig. 1 Keyfob Button Assignments

The RF-5000 comes in different configurations. Shown above is the 5-output example. This is the maximum controlled output using a keyfob. As the number of available outputs decreases so will the number of buttons on the keyfob.

Fig. 2 is the receiver or base unit. This picture shows the terminal designations and other functions.



Matching Base Unit to Keyfob or 8 Button Transmitter

- Power-up the RF-5000 receiver.
- Go to the receiver box with Keyfob or transmitter in hand and push the black (learn) button. The red LED will begin to flash for 18 seconds then turn off. While the red LED is flashing, push any button once on the Keyfob or Transmitter, then release and wait for the red LED to stop flashing. Now the set-up is complete.
- Your RF-5000 is now ready to use. If you find that all the functions are not working you may need to do the set-up of Keyfob or Transmitter below.

Set-up of Keyfob or 8 Button Transmitter Address

The next step to the RF-5000 installation is to create a 1 in 16 million address between the keyfob and the base unit.

Please follow these steps:

- On the backside of the keyfob depress “ADD” button, and for the 8-Button transmitter, depress the “CREATE” button using a paperclip (if working properly a blue light will blink for 18 seconds then turn off). The blue light is visible from the front of the keyfob and on the back for the 8-button transmitter.
- After depressing “ADD” or “CREATE” button, flip keyfob or transmitter over and push each button individually. Make sure the light is still blinking after your done pushing all the buttons, then wait for the blue light to go out before proceeding. Now the keyfob or transmitter has acquired its unique address.

Battery Replacement: Note you don't have to set-up anything after replacing battery.

The keyfob/8 Button uses a standard CR2032 lithium button cell battery. In normal use it will provide 1 to 2 years of operation depending on use. To replace the battery (keyfob), gently pry apart the 2 halves. Remove the battery by sliding it out from underneath the retainer. Observe the battery polarity when replacing. Replacing the 8 Button battery requires gently prying the battery cover open.

Other Considerations

Only one transmitter at a time can be activated within a reception area. Only one carrier of a particular frequency may occupy the same airspace at a given time. This means that if two transmitters are activated in the same area at the same time the signals will interfere and the decoder on the receiver will not see a valid transmission and the RF-5000 will not function. If the range of the transmitter needs to be increased, contact your supplier and ask about antenna options of up to 1000ft.

Also New World Industries Inc has no control over the intended usage of this product. Because of that New World Industries offers no written or expressed liability as to how this product is used. NWI recommends that these units are intended for **OFF ROAD USE ONLY**

For further technical assistance please contact New World Industries Inc.

TROUBLE SHOOTING

Follow these steps:

- With the receiver powered up, make sure the red LED comes on when the buttons are depressed on the keyfob. If the red LED does not come on the receiver is not getting a signal from the transmitter. If the battery in the transmitter is more than 1 to 2 years old or depending on use, check battery voltage with a meter or replace battery. The battery can also freeze if left out in below zero temperatures.
- After completing the above steps and the unit still will not function, follow the procedure, **Set-up of Keyfob or transmitter, and then match base unit.**
- If the unit still will not operate, check connections and make sure you have a good solid power and ground connection.

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