

## 2DP0L0EFA

### TO BE USED ON 12 OR 24 VOLT DC POWER SUPPLIES ONLY

#### Set-up and Operation

All 550 controllers come factory 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 are numbered)

**No more than 12 amps total at any given time can run through the receiver. We recommend the use of 6-10 amp diodes on the control wires to prevent any power feedback into the receiver. For higher amp uses you must use relays... with the unit. It is recommended to wire in a on off switch on the power (red wire) of the receiver to prevent battery drainage when the unit is not in use. USE THEN ENCLOSED 10 AMP IN-LINE FUSE ON THE RED POWER WIRE.**

#### What you need:

12vdc test light

wire connectors (varies depending on application) and or scotch locks. **NOTE: use dielectric grease on all splice connections to prevent corrosion.**

Wire stripper / crimper

#### This kit contains the following:

1- 2 button keychain remote

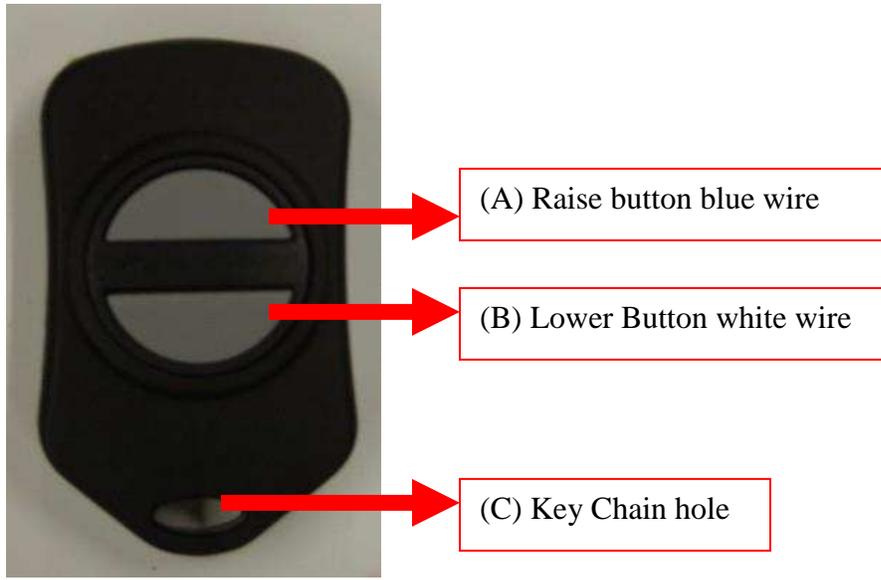
1- Wireless base unit box with pigtails

1 – In line 10 amp fuse link

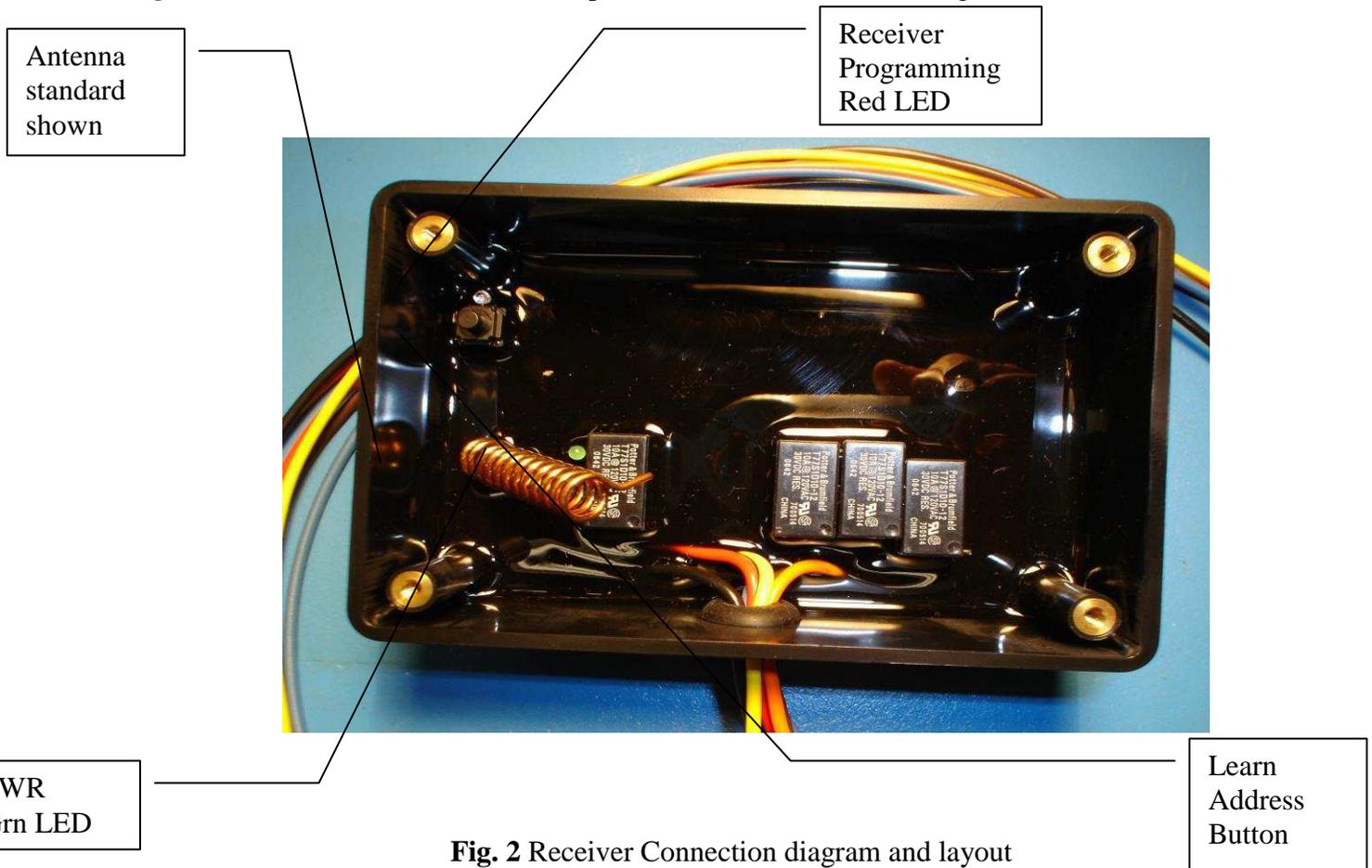
1. Mount unit (base unit with wiring pigtails) near equipment motor.
2. Run a 14 gauge wire from a 12 or 24 dc volt power supply or keyed ignition power to red terminal
3. Connect the black wire from the base unit to the battery ground or a good ground.
4. Connect the gray wire (if provided or needed) **THIS IS THE DOUBLE PULL WIRE**) from the base unit to the small terminal that activates the solenoid that controls **(OR SENDS POWER TO)** the motor.
5. Connect the white wire (which is activated with lower button (B) see figure1) to the hot side of (example) the lower valve wire (you can find this wire on your equipment by activating the function and the probing the wire with a test light ) **THIS IS A MOMENTARY BUTTON HOLD ON TO ACTIVATE RELEASE TO DEACTIVATE.**
6. Connect the blue wire (which is activated with the raise button (A) see figure 1) (example) to the hot side of the raise valve wire. **THIS IS A MOMENTARY BUTTON HOLD ON TO ACTIVATE RELEASE TO DEACTIVATE.**
9. Test remote functions. Your control is now ready for use.
10. **MAKE SURE YOU HAVE SECURE AND CLEAN CONNECTIONS EVERYWHERE.**

**Fig. 1 Keyfob Button Assignments**

**FIGURE 1**



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



**Fig. 2** Receiver Connection diagram and layout

## Set-up of Keyfob/8 Button Transmitter to Receiver Address

The next step to the 550 installation is to create a 1 in 16 million address between the keyfob and the base unit.

Please follow these steps:

- Power-up the 550 receiver. (Green LED on)
- On the backside of the keyfob/8 Button depress the “ADD” button using a paperclip (if working properly a blue light in the window will blink).
- Flip keyfob over and push each button individually to send address to the receiver. The blue light will automatically turn off after 18 seconds from the time you first push the buttons. Now the keyfob has acquired its unique address.
- THEN WAIT UNTIL THE BLUE LIGHT STOPS BLINKING AND PROCEED.
- Go to the receiver box and push the black (learn) button. The red LED will begin to flash.
- Again, push button #1 on the keyfob/8 Button to save that unique address to the receiver. Push the black button once again on the receiver box and the address programming is complete.

## Battery Replacement

The keyfob/8 Button uses a standard CR2032 lithium button cell battery. In normal use it will provide 1 to 2 years of operation. 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 550 will not function. Also CAW has no control over the intended usage of this product. Because of that CAW offers no written or expressed liability as to how this product is used. CAW recommends that these units are intended for **OFF ROAD USE ONLY**

## **TROUBLE SHOOTING**

Follow these steps:

- Make sure the green LED is lit when the receiver power is turns on. If the LED is not on, check your power supply to the receiver.
- 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 2 years old check battery voltage with a meter or replace battery.
- After completing the above steps and the unit still will not function, follow the procedure, **Set-up of Keyfob to Receiver Address**.
- If the unit still will not operate. Check connections to the component that the unit is trying to actuate using a voltmeter.