

# 300-310 MHz 12-24V Receiver

## Installation Instructions



The power of control. Automated.

### Selecting an Operating Frequency

- 1 To gain access to the code switches, remove the rear section of the case by squeezing the sides. *see Diagram 1* Place the shunt on the 2 pins of P1 that corresponds with the desired frequency of operation. P1 is labeled "Multi" for 300 MHz operation and "Stanley" for operation at 310 MHz.  
NOTE: If the shunt is not used, and the pins of P1 are left open, the default frequency is 310 MHz. *see Diagram 2*

### Selecting a Code

- 2 The code for the single-channel receiver, P/N 339386 is determined by the positions of the 10 small switches numbered 1 through 10 located on the receiver board. Set these code switches to match the transmitter's code switches.

Any combination of ON (CLOSED) or OFF (OPEN) positions can be selected by using a pointed object such as a pencil. The following code schemes should be avoided: ALL ON, ALL OFF, 2, 4, 6, 8, 10, ON or 1, 3, 5, 7, 9, ON. These codes are frequently used by other manufacturers, create the possibility of false operation and may be less secure than other code configurations. *see Diagram 3*

The two-channel receiver, P/N 339387, uses only 9 code switches. Set them to match switches 1 through 9 on the transmitter. The channel to operate is determined by the position of switch 10 on the transmitter (OFF = CH1, ON = CH2). Check that the code is functional before completing the installation.

### Installation

- 3 The receiver comes equipped with an F-connector receptacle and an antenna with an F-connector plug. The antenna can be plugged directly into the receptacle, or can be moved away from the metal structure or outside for better receiver performance by using the included coaxial cable.

Wire the receiver to the devices being used. Determine the way the receiver should be installed by following the instructions of the connected devices.

Mount the receiver with screws into the two slots of the cover flanges. Select a location and position that allows access to the terminals. Antenna should be clear of metal structures and in a vertical position for strongest signal.

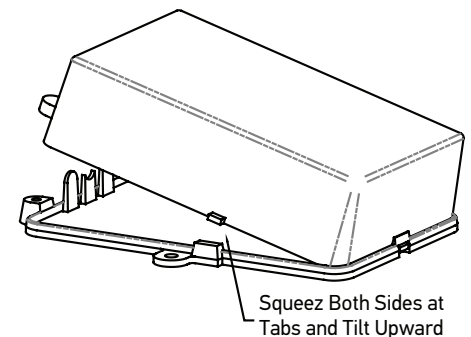


Diagram 1: Getting Access to Codes

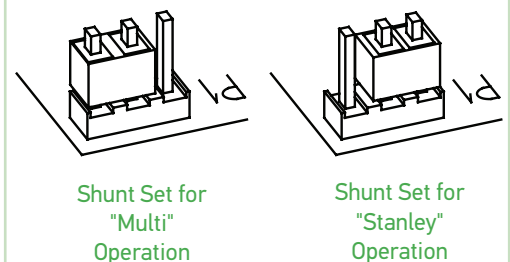


Diagram 2: Shunt Operation

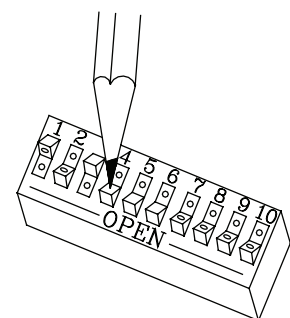


Diagram 3: Setting Codes

# 300-310 MHz 12-24V Receiver

## Installation Instructions (cont.)



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### Installation (cont.)

- 3** Wire the red and black wires to the power source.  
The input voltage is: 12 - 30 VAC or 10.6 - 30 VDC (Red + Black -)

Connect the remaining gray wires as specified by the manufacturer of the operator. If such instructions do not exist, wire the two gray wires in parallel with the push button terminals. If the operator has a three wire terminal, the proper terminals will usually be marked "1" and "2" and "24V" and "RELAY". At this point the receiver should be mounted to the permanent location.

The receivers come with the output wires connected between the relay common and normally open contacts. Normally closed contacts can be selected by moving the channel's output wire from the N.O. to the N.C. post on the circuit board. see [Diagram 4](#)

### Antenna Installation

- 4** After the receiver is mounted, test it with the enclosed antenna for range. see [Figure 1](#) Note the coverage received from all desired operating locations. If greater range or coverage pattern is necessary, a coaxial wiring kit may be needed. Do not add coaxial cable greater than 20 feet in length, it may affect range or tuning.

Seal the unit from moisture and if possible keep from direct moisture. If vibration is a factor use a fastening compound such as Loctite® on the mounting screws to ensure reliable mounting.

### Operational Check

- 5** Check operation by moving away about 50 feet and press the transmitter button. Operation should be reliable at this distance but environment and location of both the transmitter and receiver will affect the range. Try different locations and positions. If operation is still unsatisfactory, check the following:
1. The antenna must be connected to the receiver for normal use.
  2. If the opener fails to operate, check that both transmitter and receiver code switches are set the exact same code. Check the transmitter battery and the location the transmitter and receiver installation.
  3. Try mounting the antenna in a more favorable remote location by utilizing the coaxial cable.

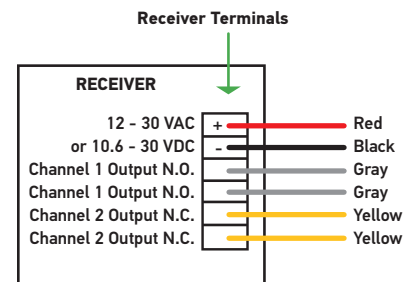


Diagram 4: Receiver Terminal Map



Figure 1: Receiver shown with antenna connected

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