Installation Instructions

GARAGE DOOR RADIO CONTROLS

MODEL 1099 RECEIVERS

WARNING:

• Disconnect power before any installation or repair.
• Wear safety glasses.

Your Multi-Code Radio Controls are designed specifically for the remote control of industrial door or gate-openers and to give years of dependable service without adjustment.

Before you continue to read these instructions, note that there are 3 versions of the model 1099 receiver. The model 1099-20 uses a 115-24 volt transformer. The model 1099-40 comes with 4 wire connections for use with 12VDC systems. The model 1099-30 comes with 4 wire connections for use with 24VAC systems. In addition, if you choose to cut the transformer away from the 1099-20, this modified product MUST ALSO BE WIRED TO 24VAC ONLY.

SELECTING A CODE

The code is determined by the positions of the 10 small switches numbered 1 through 10 located on the receiver board. To gain access to the switch, remove the top section of the case. Any combination of ON (CLOSED) or OFF (OPEN) positions can be selected by using a small screwdriver or ball point pen (see figure 1). We strongly urge that you avoid the following code schemes: ALL ON, ALL OFF, 2, 4, 6, 8, 10, on 1, 3, 5, 7, 9, on. These codes are frequently used by other manufacturers, and create the possibility of false operation, and may be less secure than other code schemes.

Be certain to check that the code is functional before completing the installation.

INSTALLATION

The receiver comes equipped with a BNC receptacle and an antenna with a BNC plug. The antenna can be plugged directly into the receptacle, or it can be moved away from a metal structure, or to an outside location for better performance. To check operation, move back a reasonable distance (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. If the transmitter is slowed well out of sight, it may be necessary to remove it from its mounting and hold near the windshield. 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 you have the model 1099-20: The red wire will go to the positive 12 volt terminal in the operator. The black wire will go to the negative terminal or ground terminal of the operator. Connect the two gray wires as specified by the manufacturer of your operator. If such instructions do not exist, wire the two gray wires in parallel with the pushbutton terminals (see figure 4).

3. If this, or any other equipment is being used in a safety-related device, be sure to test the entire system at the time of installation, and at frequent intervals, to determine that it is working properly.

Operational Check

To check operation, move back a reasonable distance (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. If the transmitter is moved well out of sight, it may be necessary to remove it from its mounting and hold near the windshield. 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 to see that 115 VAC power is present. Check circuit breakers or for a system power failure.
3. If the opener operates by pressing the wall button, but

Check to make sure

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