# GTO PRO Model RB709 Universal Receiver
# Installation Instructions

The GTO Model RB709 universal receiver is designed to have several selectable options that are not found on other radio controls.  By properly selecting these options with the convenient slide switches and wiring harness, the Model RB709 eliminates the requirement to stock several receivers.
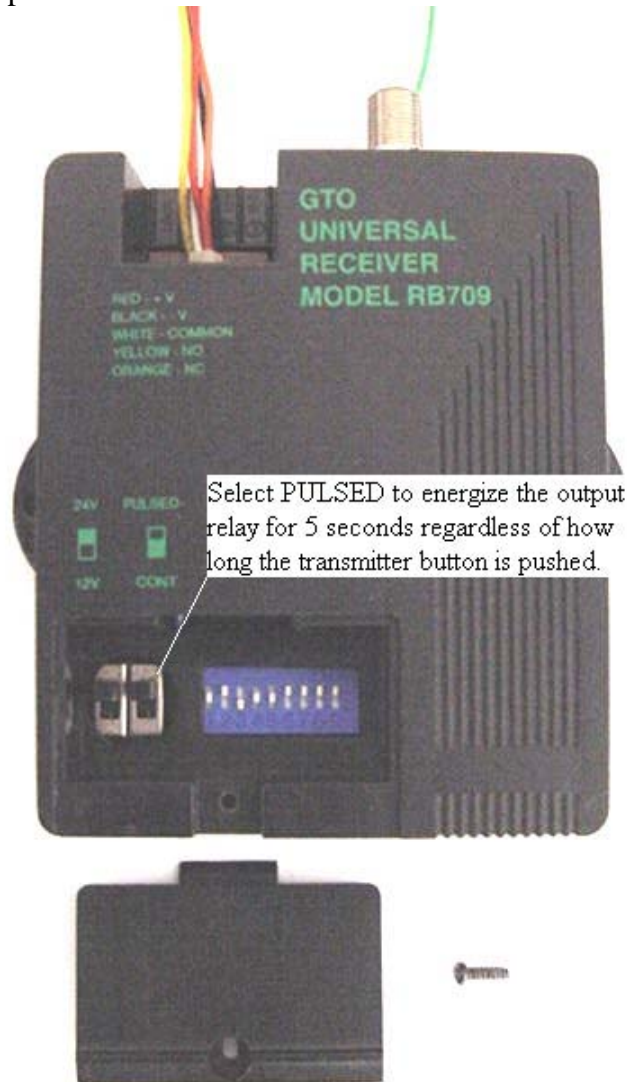
1.  The Model RB709 is not weatherproof.  If the universal receiver is to be installed outside, it needs to be in a weatherproof enclosure.

2.  The Model RB709 will operate on either 12 or 24 volts AC or DC by selecting either 24V or 12V with the voltage selection switch.

**3.** The Model RB709 will generate either a 5 second pulsed or a continuous relay output depending on the setting of the output slide switch. To energize the output relay as long as the transmitter is activated, select the CONT position. Many gate operators and some garage door openers will not work properly when the switch is in the CONT position.

GTO
UNIVERSAL
RECEIVER
MODEL RB709

RED - + V
BLACK - - V
WHITE - COMMON
YELLOW - NO
ORANGE - NC

24V    PULSED

12V    CONT

Select CONT to energize the output relay as long as the transmitter is pushed.

To energize the output relay for 5 seconds regardless of how long the transmitter is activated, select the PULSED position.



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RED - +V
BLACK - -V
WHITE - COMMON
YELLOW - NO
ORANGE - NC

24V    PULSED

12V    CONT

Select PULSED to energize the output relay for 5 seconds regardless of how long the transmitter button is pushed.
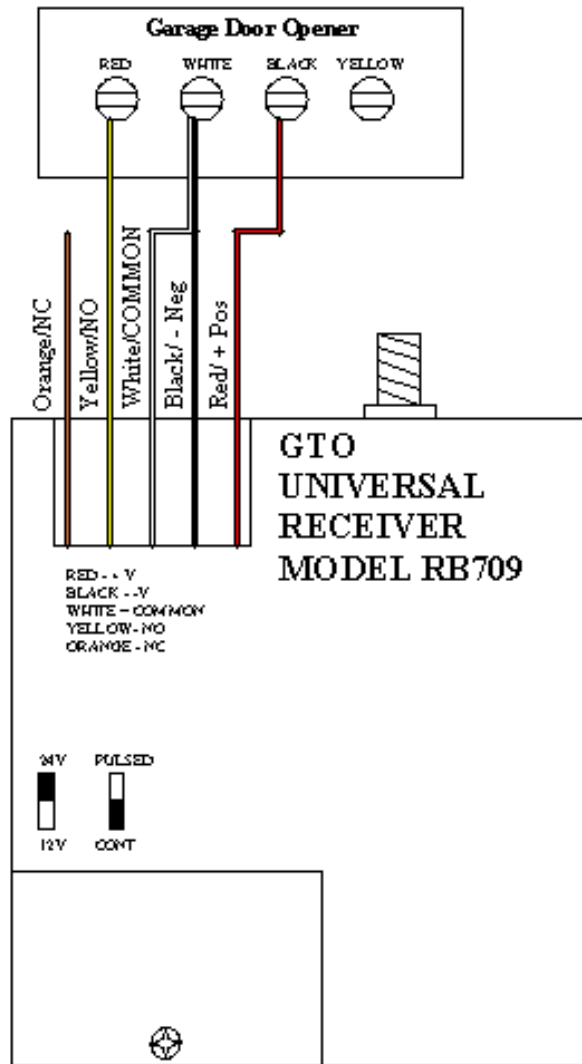
**4.** The Model RB709 comes standard with 5 wires. Two of these wires (red and black) are for the power input and the other three are the relay contacts. The white wire is the relay common and is always used. Most control circuits require a normally open switch contact. For these applications, use the NO (yellow wire) and the white wire. We recommend that you cut off the unused orange wire. For controls requiring a normally closed switch contact, use the NC (orange wire) and the white wire. We recommend that you cut off the unused yellow wire.

**5.** The Model RB709 comes standard with an "F" connector and a ¼ wave antenna. If signal conditions require the use of an external coax antenna to eliminate signal blockage due to obstructions, dead spots, etc., use RG59 coax to extend the antenna to the remote location. Strip off the end of the coax so that precisely 9 ¼" of the core is exposed. The length of the exposed core must be within +/- ¼". Use heat shrink at the end of the insulation to avoid water wicking into the cable. If heat shrink is not available, tape may be used, but tape will break down over time. The ¼ wave wire antenna may be left on the receiver.

# Model RB709 Mounting & Connecting Instructions for Common Garage Door Operations

1. Disconnect the power to the opener.

2. Loosen the screw in access cover of receiver and slide the cover back to gain access to the coding switch and the programming switches.

3. Place the voltage selector slide switch in either the 24 V or 12 V position depending upon the control voltage of the operator.

4. Place the output selector slide switch in either the CONT or PULSED position depending upon the operator being used. In most cases, either position will work properly.

5. Set the 9 pole, 3 position coding switches under the access cover to match the transmitter coding switches. Any switch position will work as long as the transmitter coding switches and the receiver coding switches are exactly matched.

6. Mount receiver near the opener so that the wires from the receiver will reach the terminal strip on the opener.

7. Connect the black wire (-V) to the negative power supply on the opener.

8. Connect the white wire (COMMON) to the common relay terminal on the opener.

9. If the operator requires a normally open contact to activate the opener, connect the yellow wire (NO) to the normally open relay terminal on the opener. Cut off the orange wire. If the opener requires a normally closed contact, connect the orange wire (NC) and cut off the yellow wire.

10. Connect the red wire (+ V) to the positive power supply on the opener.

11. Reconnect the power to the opener and test the system. If the distance isn't adequate reposition the antenna for optimum results.

12. Two examples follow. If your garage door is different, call with the model number of the garage door opener at (800) 543-1236 from 8:00 AM to 7:00 PM EST Monday through Friday.

# Chamberlin Garage Door Opener

**Garage Door Opener**

RED     WHITE     BLACK     YELLOW

Orange/NC
Yellow/NO
White/COMMON
Black/ - Neg
Red/ + Pos

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RED - + V
BLACK - -V
WHITE - COMMON
YELLOW - NO
ORANGE - NC

24V     PULSED

12V     CONT

# Genie Excelerator H8000D Garage Door

**Garage Door Opener**

1    2    3    4    5    6

Orange/ NC
Yellow/ NO
White/ COM
Black/ - Neg
Red/ + Pos

GTO
UNIVERSAL
RECEIVER
MODEL RB709

RED - - V
BLACK - -V
WHITE – COMMON
YELLOW- NO
ORANGE - NC

24V    PULSED

12V    CONT