RB709-U

Relay Output Universal Receiver
Owners Manual

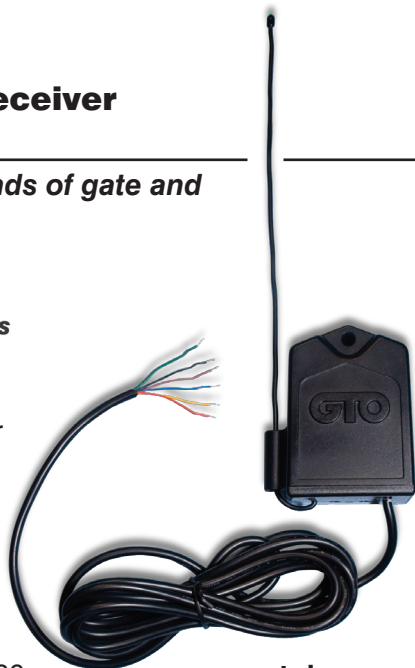*Designed to work with most brands of gate and door openers.*

GTO/PRO®
PROFESSIONAL ACCESS SYSTEMS

The RB709-U digital receiver is a wireless radio control designed for use with automated gate openers and garage door openers. The receiver has two channels for receiving signals from two separate transmitters.

GTO Technical Support 1-800-543-1236

www.gtoinc.com

Specifications

Compatible transmitter:
- GTO narrow band transmitters (318MHz)

Power input:
- 8-24 V ac/dc, 10ma standby, 40ma activated (Red & Black wires).

Outputs: 2 channels pulsed outputs
- 2 channels dry-contact normally open relay outputs.
- Channel 1: Blue & Green wires.
- Channel 2: Yellow & Brown wires.
- Activated for .5 seconds when the correct transmitter code is received.
- Relay switching maximum rating: 24Vac/dc @ 1A.
- Operating Range 50 to 100 feet (15.2 to 30.5 m)
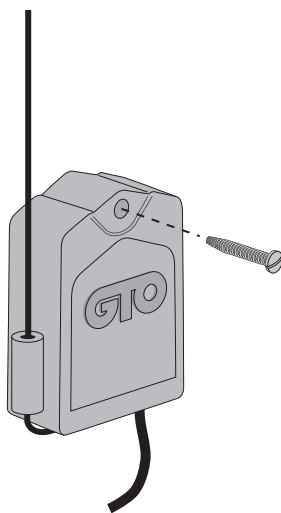
Indoor/Outdoor compatible.

FCC Regulation
This device complies with FCC rules Part 15. Operation is subject to the following conditions:
1. This device may not cause harmful interference.
2. This device must accept an interference that may cause undesired operation.
Transmitter distance may vary due to circumstances beyond our control. NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.
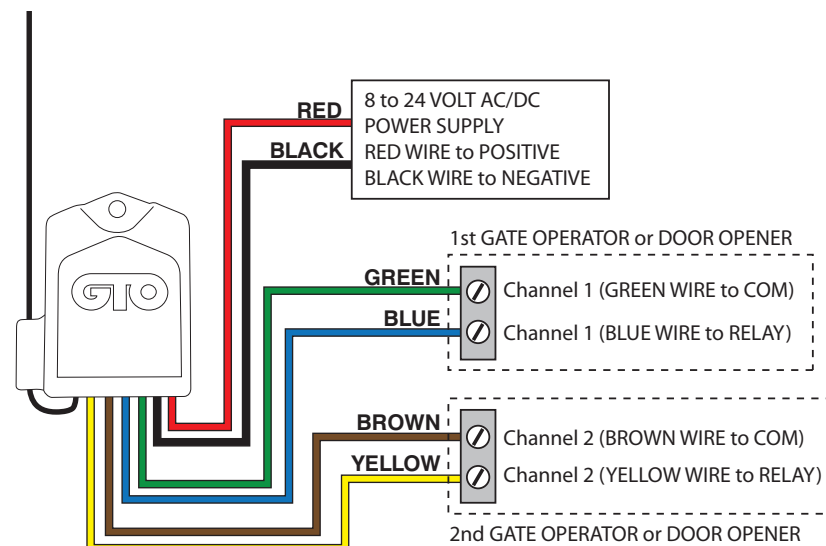
Mounting the Receiver

Consider the following when mounting the receiver:
- Standard receiver cable length is 10 feet (3.05 m).
- For exterior applications run the cable through PVC conduit to protect it from damage.
- DO NOT run cable in conduit containing ac wiring.
- The receiver range can vary from 50 to 100 feet (15.2 to 30.5 m) depending upon weather, topography, and external interference.

NOTE: Do not mount upside down in exterior applications.

Connect Receiver to Relay Inputs and Power

RED
BLACK
8 to 24 VOLT AC/DC POWER SUPPLY
RED WIRE to POSITIVE
BLACK WIRE to NEGATIVE

1st GATE OPERATOR or DOOR OPENER
GREEN Channel 1 (GREEN WIRE to COM)
BLUE Channel 1 (BLUE WIRE to RELAY)

BROWN Channel 2 (BROWN WIRE to COM)
YELLOW Channel 2 (YELLOW WIRE to RELAY)
2nd GATE OPERATOR or DOOR OPENER

Programming the Receiver
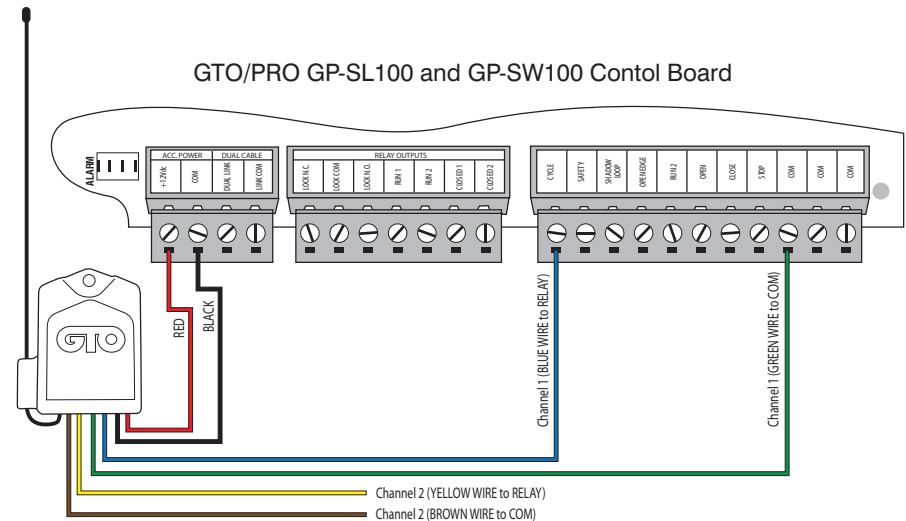
Learning transmitter(s) with RB-709U receiver:
- Press and hold the transmitter's button to be learned.
- Press the 'LEARN CH1' (or 'LEARN CH2') button on the RB-709U receiver for 1-2 seconds or until the red LED turns on, then release the button.
- Note: When the correct code is received and the corresponding relay output is activated, the red LED will turn on.

Power In (8-24V): Red = V+,Black = COM
CH1 (Normally Open): Blue & Green
CH2 (Normally Open): Yellow & Brown

LEARN CH1   LEARN CH2

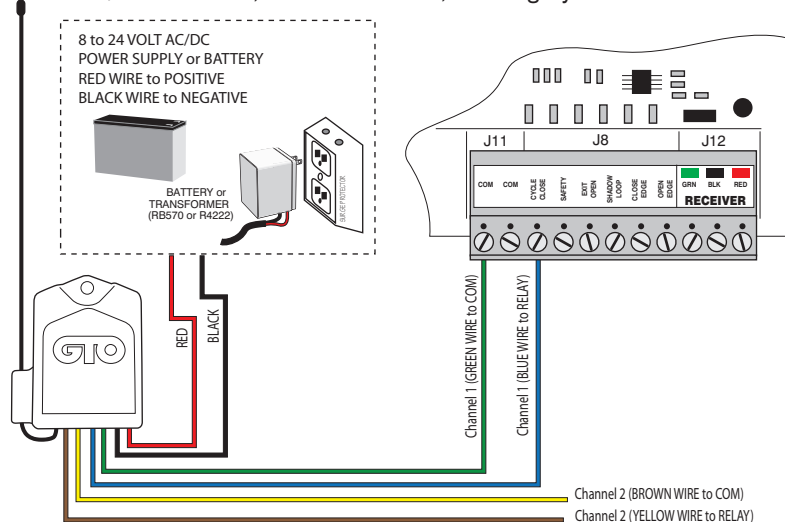Check operation after programming:
- Press Transmitter #1 - RED LED blinks once to confirm.
- Press Transmitter #2 - RED LED blinks twice to confirm.

Wiring Receiver to GTO GP-SL100 & GP-SW100 Operators

GTO/PRO GP-SL100 and GP-SW100 Contol Board

ALARM

ACC. POWER | DUAL CABLE
+12Vdc | COM | DUAL LINK | LINK COM

RELAY OUTPUTS
LOCK N.C. | LOCK COM | LOCK N.O. | RLY1 1 | RLY1 2 | CLOSED 1 | CLOSED 2

CYCLE | SAFETY | SHADOW LOOP | OPEN EDGE | RLY1 2 | OPEN | CLOSE | STOP | COM | COM | COM

RED
BLACK

Channel 1 (BLUE WIRE to RELAY)
Channel 1 (GREEN WIRE to COM)
Channel 2 (YELLOW WIRE to RELAY)
Channel 2 (BROWN WIRE to COM)

Wiring Receiver to GTO DC Operators

Typical GTO DC powered gate operators.
GTO/PRO 2000XL, 3000XL. 4000XL, and Mighty Mule 500

8 to 24 VOLT AC/DC
POWER SUPPLY or BATTERY
RED WIRE to POSITIVE
BLACK WIRE to NEGATIVE

BATTERY or
TRANSFORMER
(RB570 or R4222)

J11 | J8 | J12

COM | COM | CYCLE CLOSE | SAFETY | EXIT OPEN | SHADOW LOOP | CLOSE EDGE | OPEN EDGE | GRN BLK RED
RECEIVER

RED
BLACK

Channel 1 (GREEN WIRE to COM)
Channel 1 (BLUE WIRE to RELAY)
Channel 2 (BROWN WIRE to COM)
Channel 2 (YELLOW WIRE to RELAY)

Wiring Receiver to Common Gate and Door Openers

BATTERY or
TRANSFORMER
(RB570 or R4222)

CHANNEL 1 (NO)
CHANNEL 1 (COM)
CHANNEL 2 (NO)
CHANNEL 2 (COM)

RED WIRE to POSITIVE POWER
BLACK WIRE to NEGATIVE POWER

CHANNEL 1 (NO)
CHANNEL 1 (COM)

CHANNEL 1 (NO)
CHANNEL 1 (COM)

Lift Master
Garage Door Opener

CHANNEL 1 (COM)
CHANNEL 1 (NO)

6 5 4 3 2 1
Genie Garage Door Opener

PUSHBUTTON
ANTENNA   COMMON   BEAM
Linear Garage Door Opener

Lift Master SL580 Gate Opener
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Chamberlin
Garage Door Opener

CHANNEL 1 (COM)
CHANNEL 1 (NO)

CHANNEL 1 (NO)
CHANNEL 1 (COM)