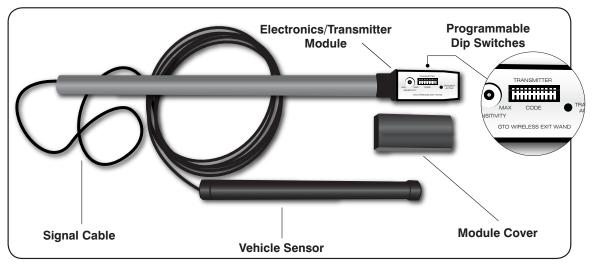


GTO Wireless Exit Sensor



Kit Includes:

- Wireless vehicle sensor with direct burial coil assembly and a plug-in electronics/transmitter module designed for mounting up to 15 feet away from the pavement edge.
- RB709U-NB two channel receiver with instructions.
- Two size AA batteries.
- GTO Wireless Exit Sensor instruction manual for general installation guidance.

Thank you for purchasing the GTO Wireless Exit Sensor. Please read the directions carefully and completely before installing.

How it works:

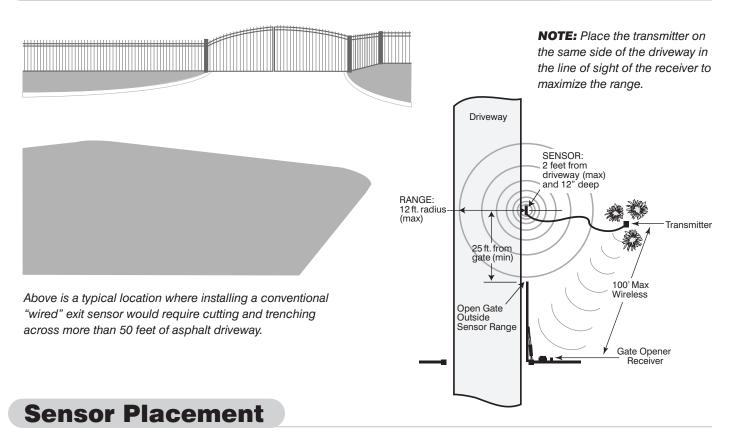
The GTO wireless exit sensor consists of a vehicle sensor, transmitter, and programmable dip switches. The maximum range between transmitter and receiver is 80- 100 ft.

The transmitter module transmits a special GTO transmitter code with additional information to tell the receiver that this device should be treated as a "free exit" device. The latest GTO gate operators with blue control boards (GTO "GEN3") are able to decode this format and recognize the device as a free exit or open only command without the use of the RB709U-NB receiver. This will simplify installations so only the original receiver will be required.

The RB709U-NB receiver will be required unless you have the GEN 3 (blue board). The RB-709U-NB has two channels that can be programmed to operate a remote transmitter or keypad and wireless wand. For instance, Channel 1 could be wired to the Cycle and COM accessory terminals and could be programmed to operate a transmitter and keypad. Channel 2 could be wired to the Exit and COM accessory terminals and could be used to operate the wireless exit sensor. Depending on the frequency of use (vehicle traffic) the two AA batteries will last about 1 to 3 years.

For more information on GTO's full line of automatic gate openers and access controls visit our website at www.gtoaccess.com

Sensor and Module Placement Overview



Determining Sensor Location

IMPORTANT: Clear an area 20 feet in all directions of metal tools, toys and automobiles, to prevent magnetic disturbance during testing and installation.

• Determine the optimum location for the VEHICLE SENSOR using the information found above in "Sensor and Transmitter Placement Overview". Then dig a hole approximately 10 - 12 inches deep and 24 inches long within 2 feet and parallel to the edge of the driveway. Next, dig a trench no more than 15 ft from this hole to the location where you will install the transmitter module. Keep the VEHICLE SENSOR and the cable uncovered at this time.

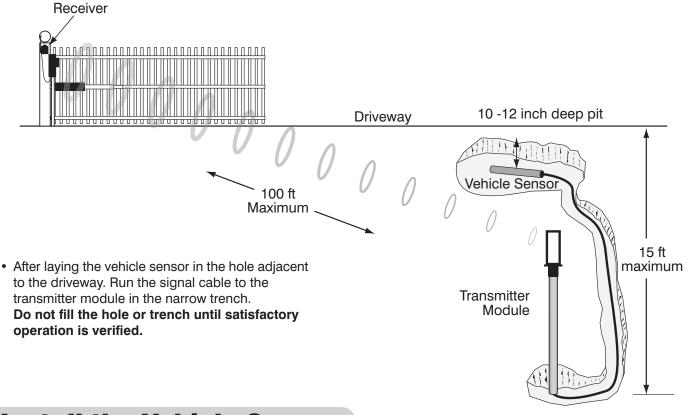
For Optimum Performance:

- Locate the SENSOR as far as possible away from power transformers, power lines, underground gas line, and telephone lines.
- Locate the SENSOR away from general moving traffic to prevent unwanted activation. Remember that the SENSOR detects MAGNETIC DISTURBANCES caused by a vehicle's mass and velocity.
- Range distance is approximate and will vary due to outside interference, type of soil, vehicle mass, speed, etc.
- It is recommended that you run the Signal Cable inside PVC conduit to prevent accidental damage.
- Do not run Signal Cable in conduit with other wires such as AC power or other control wires.
- The SIGNAL CABLE CANNOT BE SPLICED. If you need more wire, contact the GTO Sales Department at 1-800-543-GATE (4283).

Transmitter Module Placement

Determining Transmitter Module Location

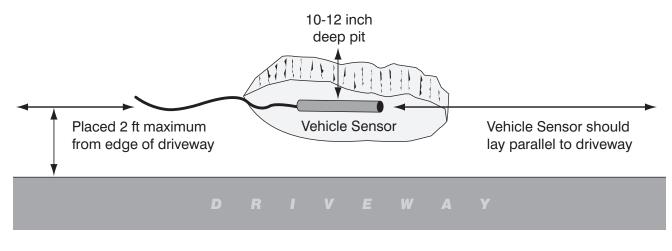
• Choose a location for the transmitter module that is far enough from the driveway edge that vehicles are unlikely to hit it. Fifteen feet of wire is included to allow the transmitter to be 12 to 15 feet from the driveway. To test the chosen location to be sure it is free from obstructions or other interference, you can use your remote control transmitter at the same height as the transmitter module to activate the gate.



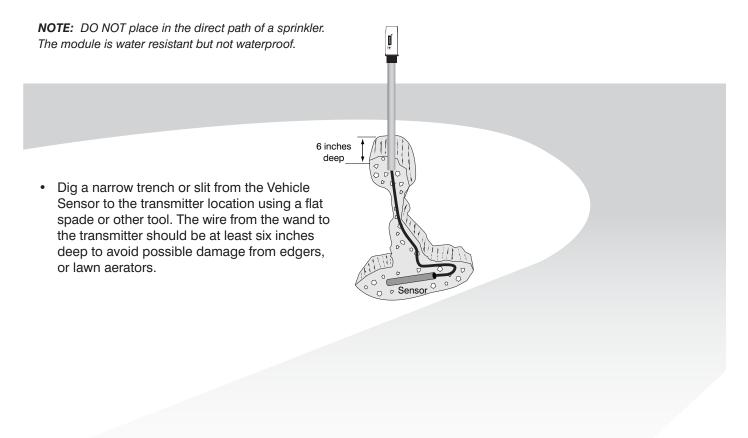
Install the Vehicle Sensor

DO NOT fill the hole until final testing is complete.

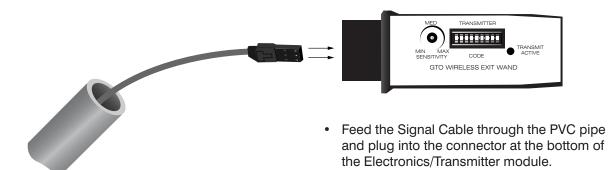
• Dig a small pit about 10 - 12 inches deep close to the edge of your driveway. The hole should allow you to lay the Vehicle Sensor flat in the bottom with the length of the Vehicle Sensor parallel to the direction of the driveway.



Install the Electronics/Transmitter Module

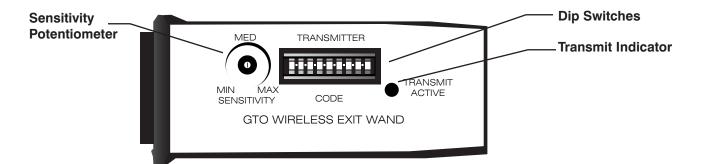


Connecting the Electronics/Transmitter Module

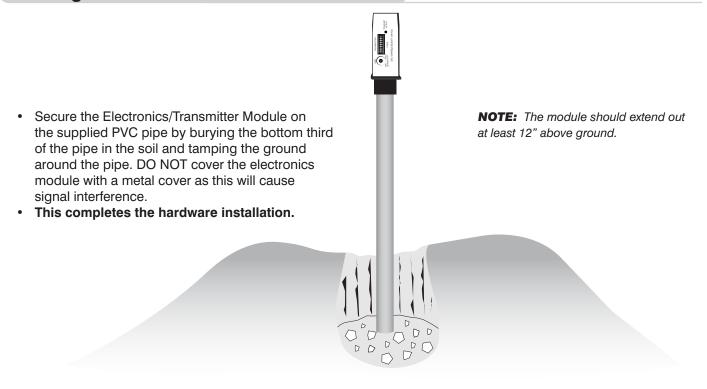


Electronics/Transmitter Module Setup

- Install and connect the RB709U-NB receiver to your gate operator as shown in the instructions supplied with that receiver. You can skip this step if you have a GTO GEN3 control board on your gate operator.
- If using the RB709U-NB receiver, it is recommended that you disconnect the original antenna receiver that came with your gate opener.
- Remove the outer cover from the Electronics/Transmitter Module.
- Set the transmitter Dip Switches. If you have GTO hand held transmitters for your gate, set the Dip Switches in the Transmitter/Module to the same settings as the Dip Switches in your transmitter. If you do not have GTO transmitters, set the Dip Switches to any desired setting. We do not recommend using the factory code setting as shipped.
- Set the sensitivity control to mid scale (medium sensitivity).
- DO NOT install the batteries at this time!



Planting the Electronics/Transmitter Module



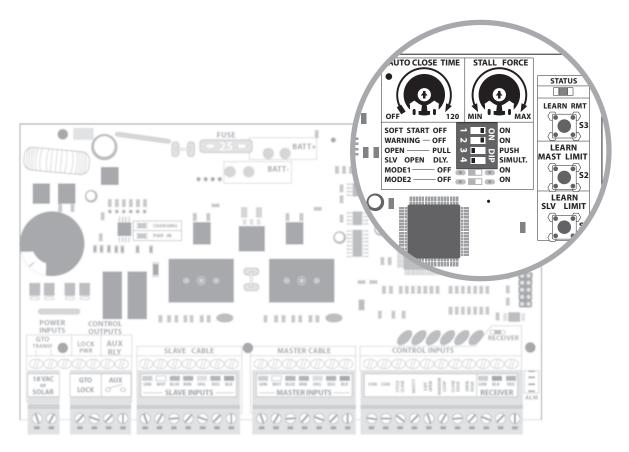
To use or not to use the Included Receiver

Depending on the type of control board you are using you may or may not need to use the **RB709U-NB universal receiver** included with the Wireless Exit Sensor.

Post mount operators with a GEN-3 Blue Control Board DO NOT require that you use the RB709U-NB universal receiver.

(See the pictures below to determine if you have a GEN-3 Blue Control Board).

ALL PAD MOUNT OPERATORS will require the use of the RB709U-NB universal receiver.



GEN-3 Blue Control Board

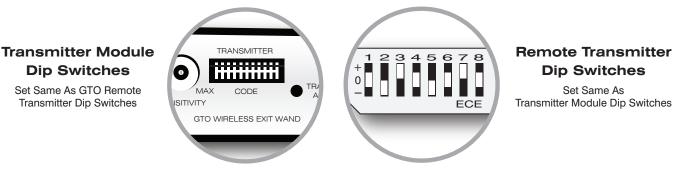
DOES NOT require the RB709U-NB universal receiver

Programming the Exit Sensor's Transmitter Code

Before use, the receiver needs to "learn" the code transmitted by the wireless exit sensor. This simple procedure takes only a few minutes.

• Gen 3 (blue board) instructions

Set the 9 Dip Switches in the Transmitter Module to the same settings as the 9 Dip Switches in the GTO Remote Transmitter. The Gen 3 (blue board) will automatically respond to the wireless exit sensor's transmission as a free exit or open only command.

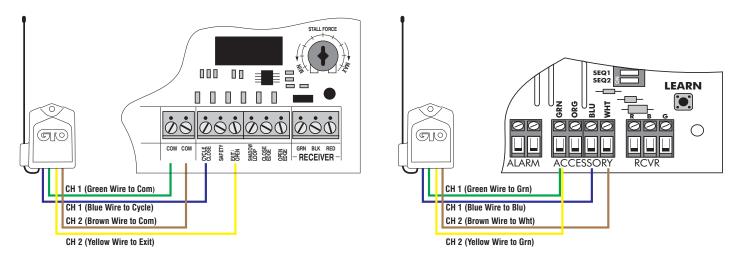


• For operators WITHOUT the Gen 3 (blue board)

Disconnect the red, black and green wires from the original receiver at the receiver terminals on the gate opener's circuit board. It will no longer be needed.

Wire Channel 1 (green and blue wires) on the RB709U-NB to the Cycle and COM accessory terminals on the gate opener. Hold down the gate opener's remote transmitter button and the Channel 1 button on the RB709U-NB at the same time. The red light on the RB709U-NB should blink once in 1 to 2 seconds to indicate that the receiver has learned the code from the exit sensor.

Wire Channel 2 (yellow and brown wires) on the RB709U-NB to the Exit and COM terminals on the gate opener. Install the two AA batteries in the wireless exit sensor's transmitter module. This will immediately start 30 seconds of transmissions from the wireless exit sensor. While the exit sensor is transmitting, hold down the Channel 2 button on the RB709U-NB. The red light on the RB709U-NB should blink once in 1 to 2 seconds to indicate that the receiver has learned the code from the exit sensor.



PRO3040-PCB Connections

GTO/PRO1000, SL1000/2000 Connections

Normal Operation

After the 30 seconds of "learn mode" transmission, the Vehicle Sensor performs an initial calibration sequence. Calibration lasts about 15 seconds. DO NOT move the sensor, any vehicles, or large metal objects near the Vehicle Sensor during this 15 second period.

Learning and calibration is now complete.

Test the Vehicle Sensor by driving a vehicle along the driveway at a normal speed for the driveway (5-15mph). The gate should open reliably when repeated several times. If the exit sensor does not open the gate every time, try increasing (clockwise rotation) the setting of the sensitivity potentiometer.

When operation is satisfactory, install the outer cover over the Electronics/ Transmitter Module, fill the hole and trench with soil and tamp firm. Don't be alarmed if your gate opens while you are filling the trench and hole. The metal in your shovel is activating the exit sensor.



FCC WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in particular installations. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or replace the receiver antenna. • Increase the separation between the equipment and the receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.



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This product and any accessory you purchase should only be installed on a gate opener that meets the current safety standard, UL325, 4th Edition. If you have a gate opener that is not listed with the current standard please contact the GTO sales department for consultation on a gate opener that can meet your specific needs.



When an EXIT SENSOR is in use, the automatic gate opener could be activated by a child on a bicycle, tricycle or other metal play equipment. This product is not recommended for applications exposed to children.

GTO Limited One Year Warranty

GTO, Inc., gate openers and accessories are covered under warranty by the manufacturer against defects in materials and manufacturer workmanship for a period of one (1) year from date of purchase, *provided the recommended installation procedures have been followed.*

In the case of product failure due to defective material or manufacturer workmanship within the one (1) year warranty period, the product will be repaired or replaced (at the manufacturer's option) at no charge to the customer, if returned freight prepaid to GTO, Inc., 3121 Hartsfield Road, Tallahassee, Florida, USA 32303. **IMPORTANT: Call (800) 543-1236 for a Return Goods Authorization (RGA) number before returning accessory to factory.** Products received at the factory without an RGA number will not be accepted. Replacement or repaired parts are covered by this warranty for the remainder of the one (1) year warranty period or six (6) months, whichever is greater. GTO, Inc. will pay the shipping charges (equal to United Parcel Service GROUND rate) for return to the owner of items repaired under warranty.

The manufacturer will not be responsible for any charges or damages incurred in the removal of the defective parts for repair, or for the reinstallation of those parts after repair. This warranty shall be considered void if damage to the product(s) was due to improper installation or use, connection to an improper power source, or if damage was caused by lightning, wind, fire, flood, insects or other natural agent.

After the one (1) year warranty period, GTO, Inc. will make any necessary repairs for a nominal fee. Call GTO at (800) 543-1236 for more information. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. This warranty is in lieu of all other warranties, expressed or implied. **NOTE: Verification of the warranty period requires copies of receipts or other proof of purchase. Please retain these records.**

GTO, Inc. • 3121 Hartsfield Road • Tallahassee, Florida 32303 1-800-543-GATE (4283) • Technical Support 1-800-543-1236 www.gtopro.com

Technical Support Hours: MON - FRI 8:00AM - 7:00PM (ET)

(800) 543-1236 (850) 575-4144

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