

Information you'll need before you begin the installation of the safety reversing sensor.

The safety reversing sensor *must* be connected and aligned correctly before the garage door opener will move in the down direction. This is a required safety device and cannot be disabled.

Installation procedures are the same for sectional and one-piece doors.



WARNING

Without a properly working safety reversing sensor, persons (particularly children) could be injured or killed by a closing garage door. Read and follow all instructions.

To protect small children, install the safety reversing sensor so that the beam will be no higher than 4"-6" above the garage floor.

Disconnect power to the garage door opener before installing the safety reversing sensor.

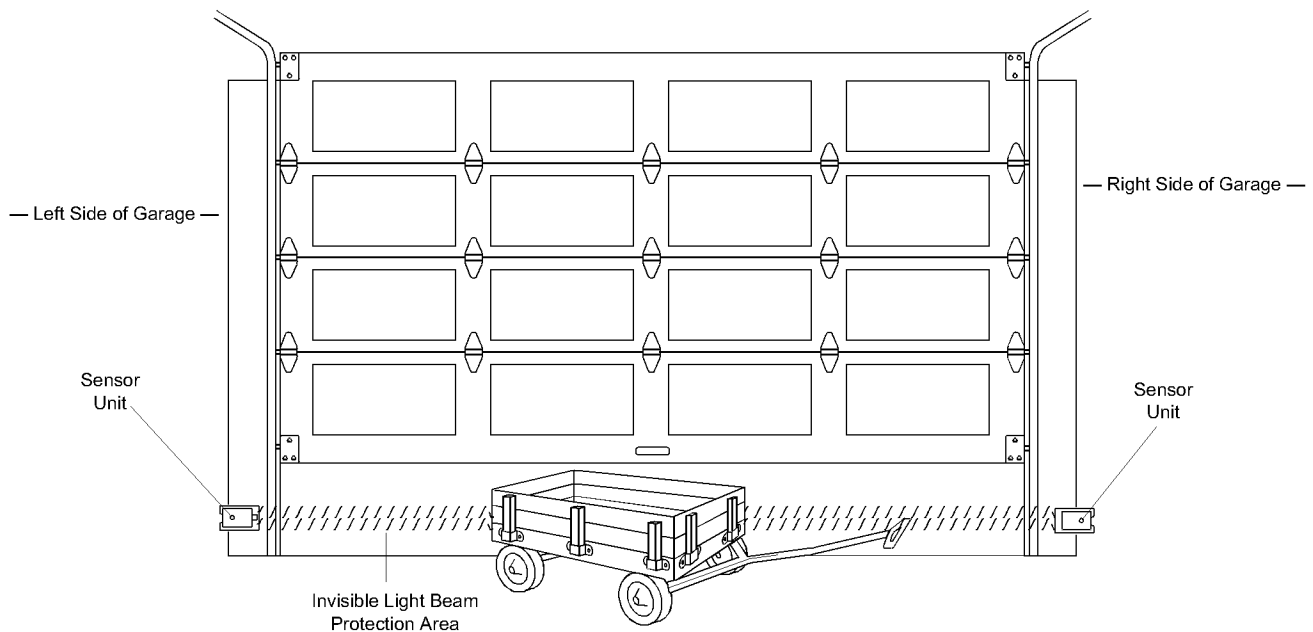


Figure 1: Facing the door from inside the garage

Be sure power to the opener is disconnected.

The sending eye transmits an invisible light beam to the receiving eye. The units can be installed on either side of the garage door as long as the sun never shines directly into the receiving eye lens.

Look at the label on the connector end of each case to identify the sensors.

The brackets must be connected and fastened so that the sending and receiving eyes face each other as shown in Figure 1.

If an obstruction breaks the light beam while the garage door is closing, the door will stop and reverse to full open position; and the opener lights will flash for 5 seconds.

The brackets *must* be securely fastened to a solid surface such as the studs on either side of the door, or add a piece of wood at each location if installing in masonry construction.

The invisible light beam path must be unobstructed. No part of the garage door (or door tracks, springs, hinges, rollers or other hardware) can interrupt the beam while the door is closing. If it does, use a piece of wood to build out each sensor mounting location to the minimum depth required for light beam clearance.

Installation Step 10

Install the Safety Reversing Sensor (Receiving and Sending Eyes)

Figures 2, 3 and 4 show recommended assembly of bracket(s) and "C" wrap based on the wall installation of the sensors on each side of the garage door as shown on page 17, or on the garage door tracks themselves.

For Garage Wall or Door Track Installation

- Fasten the "C" wraps to the mounting brackets having square holes, using the hardware shown in Figure 2.

For Door Track Installation Only

- Discard slotted bracket. Drill 3/8" holes in each track and fasten securely with hardware as shown in Figure 3.

For Wall Installation

- Connect each assembly to a slotted bracket, using the hardware shown in Figure 4. **Note alignment of brackets for left and right sides of the door.**
- Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on both sides of the garage door, 4"-6" above the floor (but not exceeding 6"). (See warning on page 21.)
- Attach bracket assemblies with 1/4"x1-1/2" lag screws as shown in Figure 4.
- Adjust right and left side bracket assemblies to the same distance out from mounting surface. Make sure all door hardware obstructions are cleared. Tighten the nuts securely.

Figure 2

Garage WALL or DOOR TRACK Installation

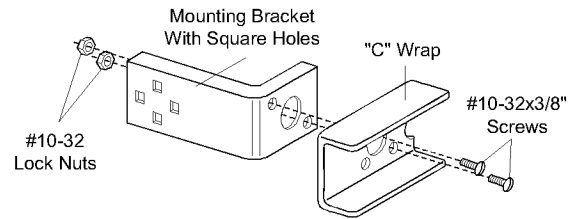


Figure 3

Garage DOOR Track Installation

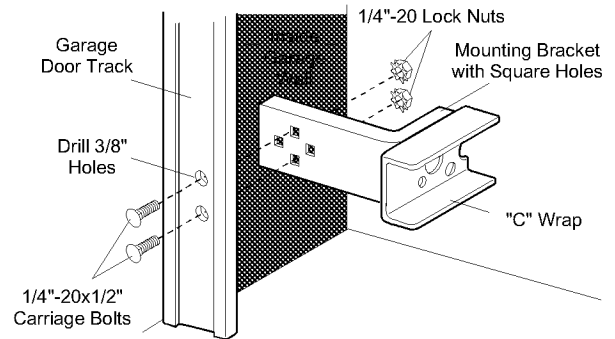
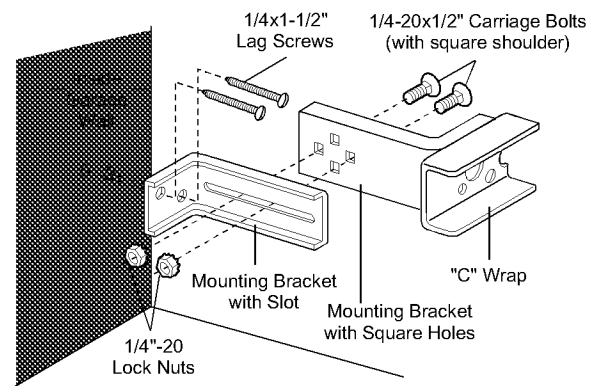


Figure 4

Garage WALL Installation



Figures 5 and 6 are variations which may fit your installation requirements better. **Make sure the wraps and brackets are aligned so the sensors will face each other across the garage door.**

Figure 5

Alternate Wall Mount

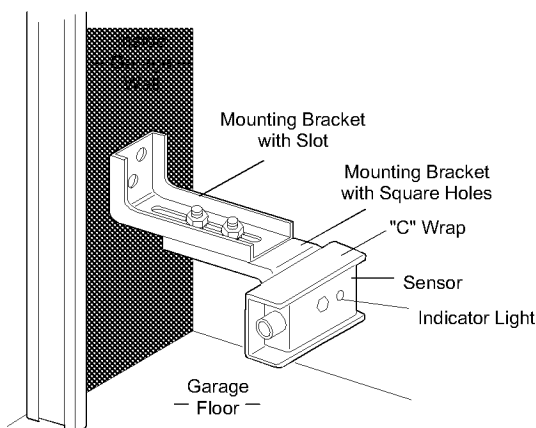
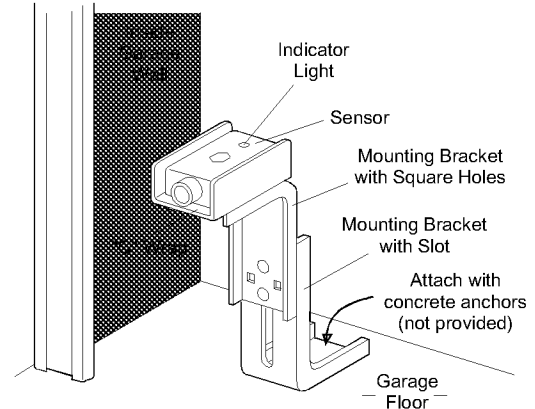
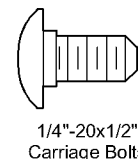
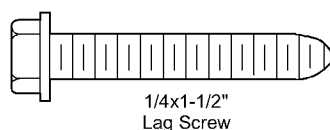
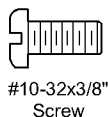


Figure 6

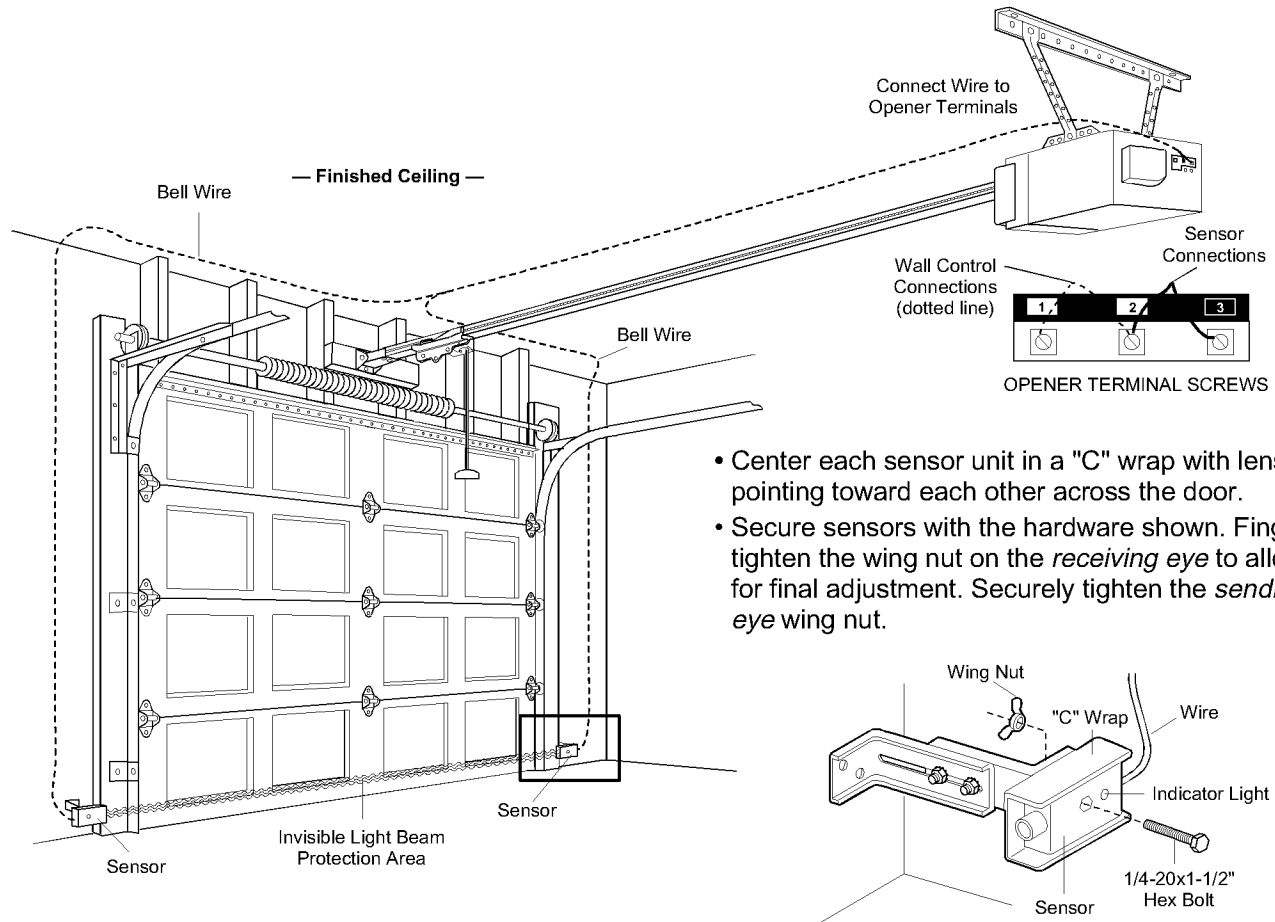
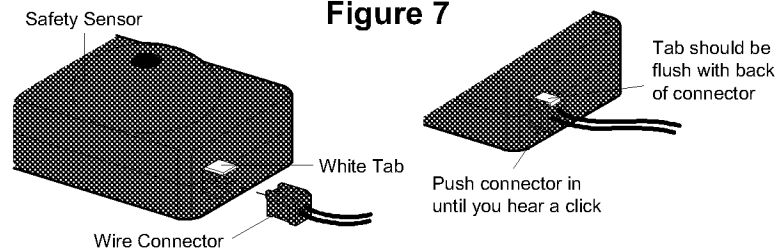
Alternate Floor Mount



Hardware Shown Actual Size



- Insert the wire connector into each sensor and push until you hear a click, Figure 7. The white tab on the sensor should be flush with the back of the connector.



- Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door.
- Secure sensors with the hardware shown. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.

- Run paired wires from both sensors to the opener. Use insulated staples to secure the wire to wall and ceiling.
 - Strip 1/4" of insulation from each set of wires. Separate white and white/black wires sufficiently to connect to the opener terminal screws: white to 2 and white/black to 3.
 - Plug in the opener. Make sure the Lock Feature is *off*. Green indicator lights in both the sending and receiving eyes will *glow steadily* if wiring connections and alignment are correct.
- If the indicator light is *off* in the *receiving eye* (and the invisible light beam path is not obstructed), alignment is required.
- Loosen the receiving eye wing nut to allow slight rotation of unit. Adjust sensor vertically and/or horizontally until the green indicator light *glows with a steady light*.
 - When indicator lights are *glowing steadily* in both units, tighten the wing nut in the receiving eye unit.

Trouble Shooting

1. If the *sending eye* indicator light does not *glow steadily* after installation, check for:
 - Electric power to the opener.
 - A short in the white or white/black wires. These can occur under staples or at screw terminal connections.
 - Incorrect wiring between sensors and opener.
 - An open wire (wire break).
2. If the sending eye indicator light *glows steadily* but the receiving eye indicator light doesn't:
 - Check alignment.
 - Check for an open wire to the receiving eye.

