

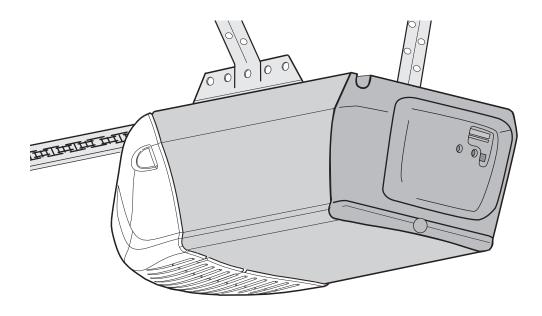
The Chamberlain Group, Inc. 845 Larch Avenue Elmhurst, Illinois 60126-1196 www.chamberlain.com



SECURITY + GARAGE DOOR OPENER

Model HD200DM • 1/2 HP

For Residential Use Only



Owner's Manual

- Please read this manual and the enclosed safety materials carefully!
- Fasten the manual near the garage door after installation.
- The door WILL NOT CLOSE unless the Protector System[®] is connected and properly aligned.
- Periodic checks of the opener are required to ensure safe operation.
- The model number label is located on the front panel of your opener.

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INTRODUCTION Safety Symbol and Signal Word Review

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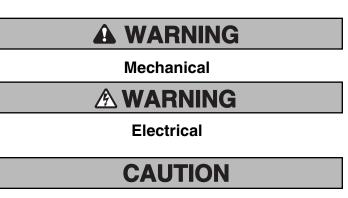
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This garage door opener has been designed and tested to offer safe service provided it is installed, operated, maintained and tested in strict accordance with the instructions and warnings contained in this manual.

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When you see these Safety Symbols and Signal Words on the following pages, they will alert you to the possibility of *serious injury or death* if you do not comply with the warnings that accompany them. The hazard may come from something mechanical or from electric shock. Read the warnings carefully.

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your garage door and/or the garage door opener if you do not comply with the cautionary statements that accompany it. Read them carefully.

Preparing your garage door

Before you begin:

- Disable locks.
- Remove any ropes connected to garage door.
- **Complete the following test** to make sure your garage door is balanced and is not sticking or binding:
 - 1. Lift the door about halfway as shown. Release the door. If balanced, it should stay in place, supported entirely by its springs.
 - 2. Raise and lower the door to see if there is any binding or sticking.

If your door binds, sticks, or is out of balance, call a trained door systems technician.

Sectional Door

One-Piece Door

A WARNING

To prevent possible SERIOUS INJURY or DEATH:

- ALWAYS call a trained door systems technician if garage door binds, sticks, or is out of balance. An unbalanced garage door may not reverse when required.
- NEVER try to loosen, move or adjust garage door, door springs, cables, pulleys, brackets or their hardware, ALL of which are under EXTREME tension.
- Disable ALL locks and remove ALL ropes connected to garage door BEFORE installing and operating garage door opener to avoid entanglement.

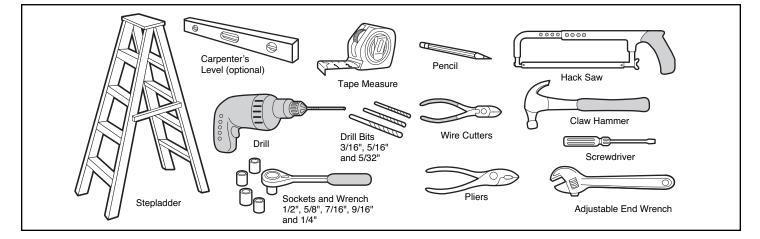
CAUTION

To prevent damage to garage door and opener:

- ALWAYS disable locks BEFORE installing and operating the opener.
- ONLY operate garage door opener at 120V, 60 Hz to avoid malfunction and damage.

Tools needed

During assembly, installation and adjustment of the opener, instructions will call for hand tools as illustrated below.



Planning

Identify the type and height of your garage door. Survey your garage area to see if any of the conditions below apply to your installation. Additional materials may be required. You may find it helpful to refer back to this page and the accompanying illustrations as you proceed with the installation of your opener.

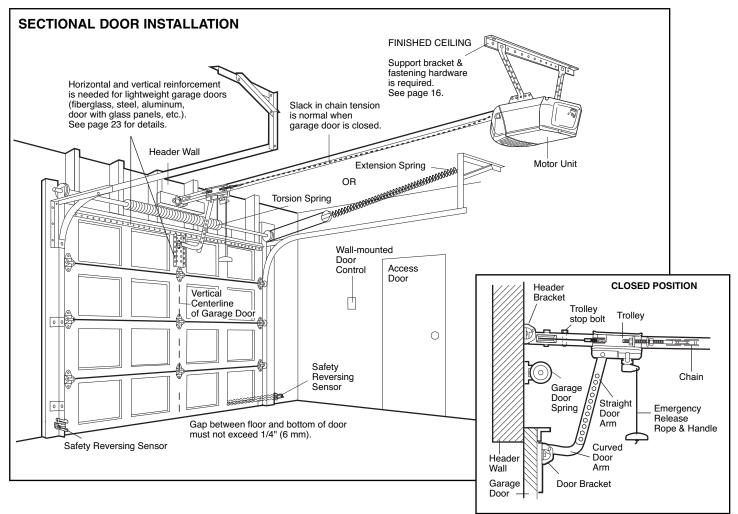
Depending on your requirements, there are several installation steps which may call for materials or hardware not included in the carton.

- Installation Step 1 Look at the wall or ceiling above the garage door. The header bracket must be securely fastened to structural supports.
- Installation Step 5 Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware may be required.
- Installation Step 10 Depending upon garage construction, extension brackets or wood blocks may be needed to install sensors.
- Installation Step 10 Alternate floor mounting of the safety reversing sensor will require hardware not provided.

- Do you have an access door in addition to the garage door? If not, Model 7702CB Emergency Key Release is required. See Accessories page.
- Look at the garage door where it meets the floor. Any gap between the floor and the bottom of the door must not exceed 1/4" (6 mm). Otherwise, the safety reversal system may not work properly. See Adjustment Step 3. Floor or door should be repaired.

SECTIONAL DOOR INSTALLATIONS

- Do you have a steel, aluminum, fiberglass or glass panel door? If so, horizontal and vertical reinforcement is required (Installation Step 11).
- The opener should be installed above the center of the door. If there is a torsion spring or center bearing plate in the way of the header bracket, it may be installed within 4 feet (1.22 m) to the left or right of the door center. See Installation Steps 1 and 11.
- If your door is more than 7 feet (2.13 m) high, see rail extension kits listed on Accessories page.



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Planning (Continued)

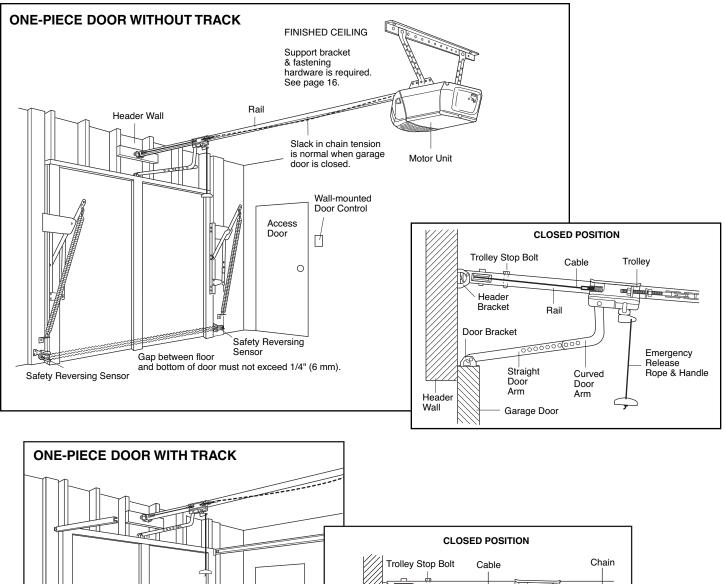
ONE-PIECE DOOR INSTALLATIONS

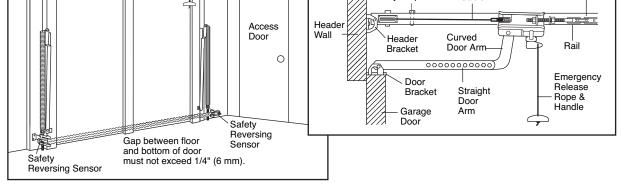
- Generally, a one-piece door does not require reinforcement. If your door is lightweight, refer to the information relating to sectional doors in Installation Step 11.
- Depending on your door's construction, you may need additional mounting hardware for the door bracket (Step 11).

A WARNING

Without a properly working safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing garage door.

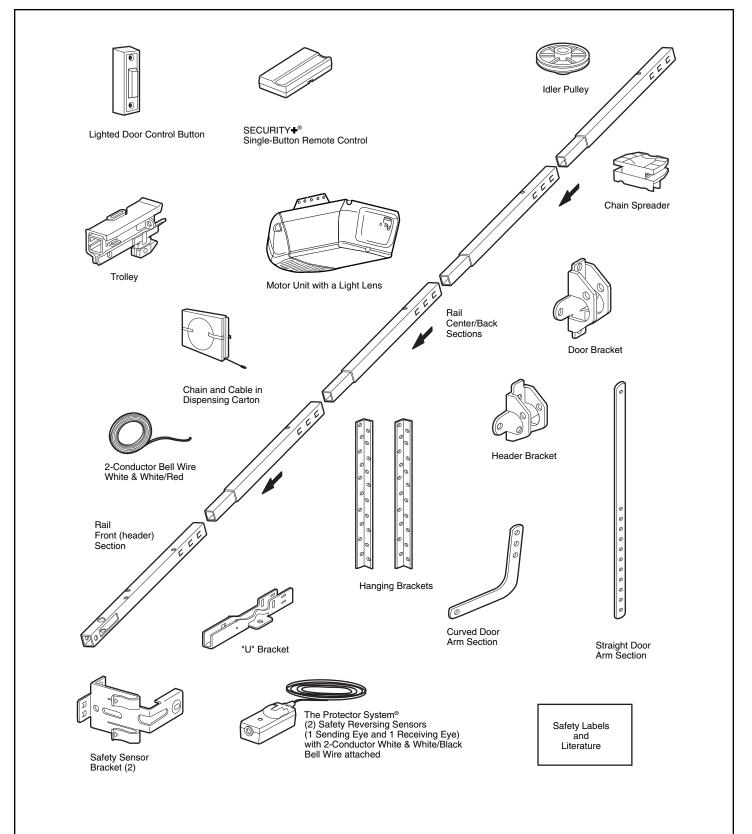
- The gap between the bottom of the garage door and the floor MUST NOT exceed 1/4" (6 mm). Otherwise, the safety reversal system may not work properly.
- The floor or the garage door MUST be repaired to eliminate the gap.





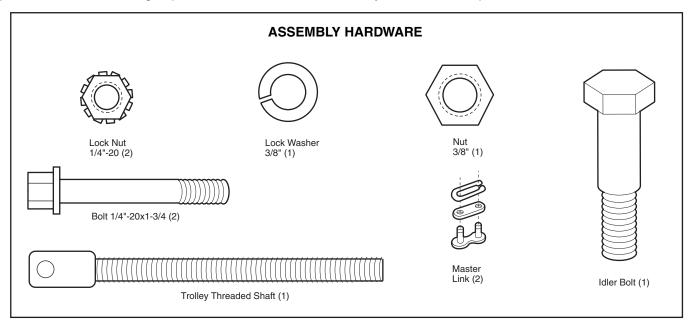
Carton Inventory

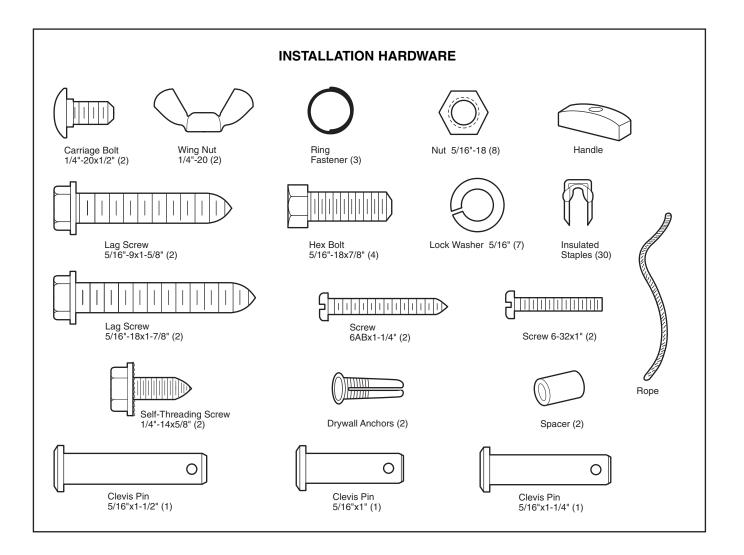
Your garage door opener is packaged in one carton which contains the motor unit and all parts illustrated below. Accessories will depend on the model purchased. If anything is missing, carefully check the packing material. PARTS MAY BE STUCK IN THE FOAM. Hardware for assembly and installation is shown on the next page. Save the carton and packing material until installation and adjustment is complete.



Hardware Inventory

Separate all hardware and group as shown below for the assembly and installation procedures.





ASSEMBLY STEP 1 Assemble the Rail & Install the Trolley

To avoid installation difficulties, do not run the garage door opener until instructed to do so.

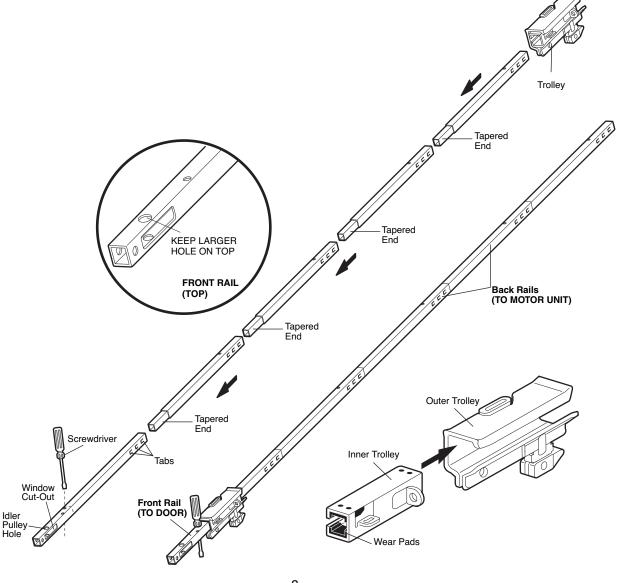
The front rail has a cut out "window" at the door end (see illustration). **The hole above this window is larger on the top of the rail** than on the bottom. A smaller hole 3-1/2" (8.9 cm) away is close to the rail edge. Rotate the back rail so it has a similar hole close to the **opposite** edge, about 4-3/4" (12 cm) from the far end.

- 1. Remove the straight door arm and hanging bracket packaged inside the front rail and set aside for Installation Step 5 and 12. **NOTE:** To prevent INJURY while unpacking the rail carefully remove the straight door arm stored within the rail section.
- Align the rail sections on a flat surface as shown and slide the tapered ends into the larger ones. Tabs along the side will lock into place.

CAUTION

To prevent INJURY from pinching, keep hands and fingers away from the joints while assembling the rail.

- 3. Place the motor unit on packing material to protect the cover, and rest the back end of the rail on top. For convenience, put a support under the front end of the rail.
- 4. As a temporary trolley stop, insert a screwdriver into the hole 10" (25 cm) away from the front of the rail, as shown.
- 5. Check to be sure there are 4 plastic wear pads inside the inner trolley. If they became loose during shipping, check all packing material. Snap them back into position as shown.
- 6. Slide the trolley assembly along the rail from the back end to the screwdriver.



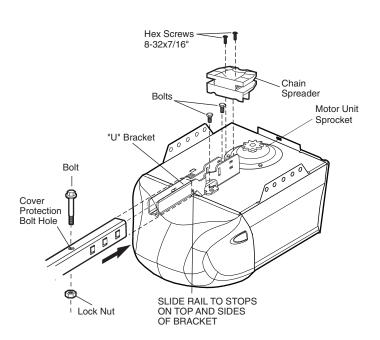
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ASSEMBLY STEP 2 Fasten the Rail to the Motor Unit

- Insert a 1/4"-20x1-3/4 bolt into the cover protection bolt hole on the back end of the rail as shown. Tighten securely with a 1/4"-20 lock nut. *Do NOT overtighten.*
- Remove the two bolts from the top of the motor unit.
- Place the "U" bracket, flat side down onto the motor unit and align the bracket hole with the bolt holes. Fasten with the previously removed bolts.
- Align the rail assembly with the top of the motor unit. Slide the rail end onto the "U" bracket, *all the way to the stops that protrude on the top and sides of the bracket.*
- Attach spreader to the motor unit with two screws.

CAUTION

To avoid SERIOUS damage to garage door opener, use ONLY those bolts/fasteners mounted in the top of the opener.



ASSEMBLY STEP 3 Install the Idler Pulley

HARDWARE SHOWN ACTUAL SIZE

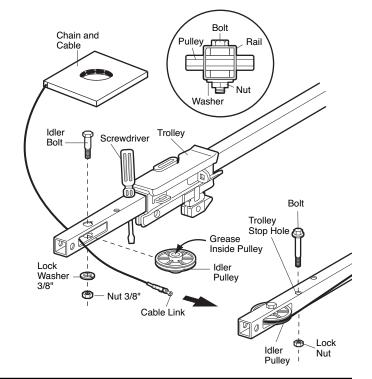
Bolt 1/4"-20x1-3/4"

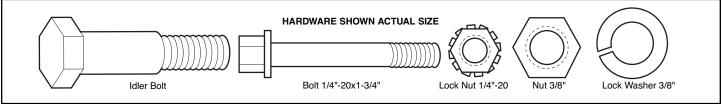
• Lay the chain/cable beside the rail, as shown. Grasp the end of the cable and pass approximately 12" (30 cm) of cable through the window. Allow it to hang until Assembly Step 5.

Lock Nut

1/4"-20

- Remove the tape from the idler pulley. The inside center should be pre-greased. If dry, regrease to ensure proper operation.
- Place the idler pulley into the window as shown.
- Insert the idler bolt from the top through the rail and pulley. Tighten with a 3/8" lock washer and nut underneath the rail until the lock washer is compressed.
- · Rotate the pulley to be sure it spins freely.
- Insert a 1/4"-20x1-3/4 bolt into the trolley stop hole in the front of the rail as shown. Tighten securely with a 1/4"-20 lock nut.





9

ASSEMBLY STEP 4 Install the Chain/Cable

- 1. Pull the cable around the idler pulley and toward the trolley.
- 2. Connect the cable to the retaining slot on the trolley, as shown (Figure 1):
 - From below, push pins of master link bar up through cable link and trolley slot.
 - Push master link cap over pins and past pin notches.
 - Slide clip-on spring over cap and onto pin notches until both pins are securely locked in place.
- 3. With the trolley against the screwdriver, dispense the remainder of the cable/chain along the rail toward the motor unit into the slot on the chain spreader, around the sprocket onto the chain spreader and continuing to the trolley assembly. The sprocket teeth must engage the chain (Figure 2).
- 4. Check to make sure the chain is not twisted, then connect it to the threaded shaft with the remaining master link.
- 5. Thread the inner nut and lock washer onto the trolley threaded shaft (Figure 3).
- 6. Insert the trolley threaded shaft through the hole in the trolley. *Be sure the chain is not twisted* (Figure 4).

Chain

Spreader

Motor Unit

Sprocket

7. Loosely thread the outer nut onto the trolley threaded shaft.

"U" Bracket

0000

8. Remove the screwdriver.

Bolt

Figure 2

A WARNING

To avoid possible SERIOUS INJURY to fingers from moving garage door opener:

- ALWAYS keep hand clear of sprocket while operating opener.
- Securely attach chain spreader BEFORE operating.

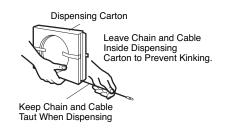
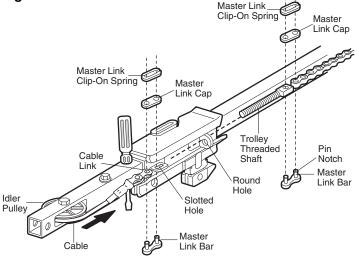
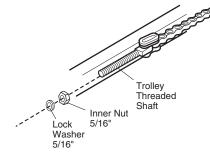
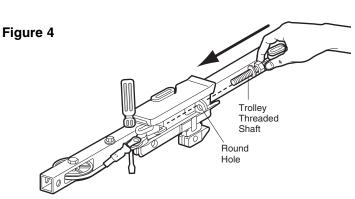


Figure 1









ASSEMBLY STEP 5 Tighten the Chain

- Spin the inner nut and lock washer down the trolley threaded shaft, away from the trolley.
- To tighten the chain, turn outer nut in the direction shown (Figure 1).
- When the chain is approximately 1/4" (6 mm) above the base of the rail at its midpoint, re-tighten the inner nut to secure the adjustment.

Sprocket noise can result if chain is too loose.

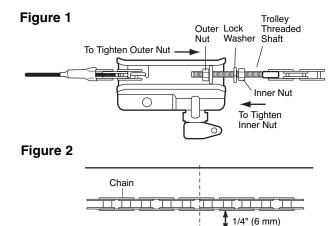
When installation is complete, you may notice some chain droop with the door closed. This is normal. If the chain returns to the position shown in Figure 2 when the door is open, do not re-adjust the chain.

NOTE: During future maintenance, ALWAYS pull the emergency release handle to disconnect trolley before adjusting chain.

NOTE: You may notice loosening of chain after Adjustment Step 3 (Test the Safety Reversal System). Check for proper tension and readjust chain if necessary. Then repeat Adjustment Step 3.

You have now finished assembling your garage door opener. Please read the following warnings before proceeding to the installation section.

INSTALLATION



Mid length of Rail

Base of Rail

IMPORTANT INSTALLATION INSTRUCTIONS

A WARNING To reduce the risk of SEVERE INJURY or DEATH:

- 1. READ AND FOLLOW ALL INSTALLATION WARNINGS AND INSTRUCTIONS.
- 2. Install garage door opener ONLY on properly balanced and lubricated garage door. An improperly balanced door may not reverse when required and could result in SEVERE INJURY or DEATH.
- 3. ALL repairs to cables, spring assemblies and other hardware MUST be made by a trained door systems technician BEFORE installing opener.
- 4. Disable ALL locks and remove ALL ropes connected to garage door BEFORE installing opener to avoid entanglement.
- 5. Install garage door opener 7 feet (2.13 m) or more above floor.
- 6. Mount emergency release handle 6 feet (1.83 m) above floor.
- NEVER connect garage door opener to power source until instructed to do so.

- 8. NEVER wear watches, rings or loose clothing while installing or servicing opener. They could be caught in garage door or opener mechanisms.
- 9. Install wall-mounted garage door control:
 - within sight of the garage door.
 - out of reach of children at minimum height of 5 feet (1.5 m).
 - away from ALL moving parts of the door.
- 10. Place entrapment warning label on wall next to garage door control.
- 11. Place manual release/safety reverse test label in plain view on inside of garage door.
- Upon completion of installation, test safety reversal system. Door MUST reverse on contact with a 1-1/2" (3.8 cm) high object (or a 2x4 laid flat) on the floor.

INSTALLATION STEP 1 Determine the Header Bracket Location

A WARNING

To prevent possible SERIOUS INJURY or DEATH:

- Header bracket MUST be RIGIDLY fastened to structural support on header wall or ceiling, otherwise garage door might not reverse when required. DO NOT install header bracket over drywall.
- Concrete anchors MUST be used if mounting header bracket or 2x4 into masonry.
- NEVER try to loosen, move or adjust garage door, springs, cables, pulleys, brackets, or their hardware, ALL of which are under EXTREME tension.
- ALWAYS call a trained door systems technician if garage door binds, sticks, or is out of balance. An unbalanced garage door might not reverse when required.

Installation procedures vary according to garage door types. Follow the instructions which apply to your door.

- 1. Close the door and mark the inside vertical centerline of the garage door.
- 2. Extend the line onto the header wall above the door.

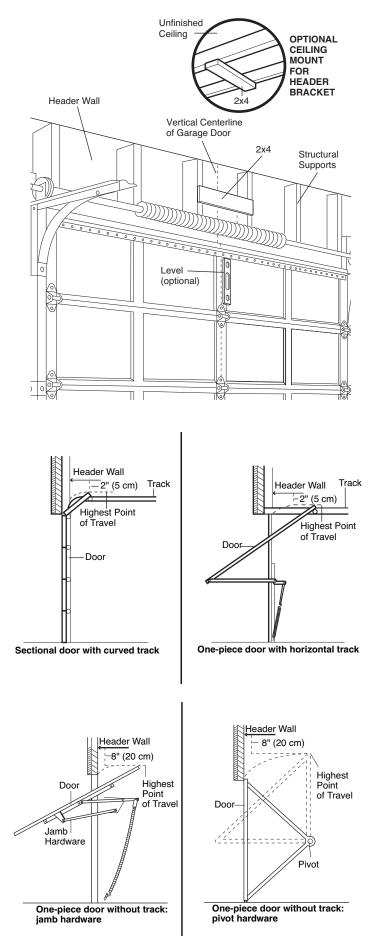
You can fasten the header bracket within 4 feet (1.22 m) of the left or right of the door center only if a torsion spring or center bearing plate is in the way; or you can attach it to the ceiling (see page 13) when clearance is minimal. (It may be mounted on the wall upside down if necessary, to gain approximately 1/2" (1 cm).

If you need to install the header bracket on a 2x4 (on wall or ceiling), use lag screws (not provided) to securely fasten the 2x4 to structural supports as shown here and on page 13.

- 3. Open your door to the highest point of travel as shown. Draw an intersecting horizontal line on the header wall above the high point:
 - 2" (5 cm) above the high point for sectional door and one-piece door with track.
 - 8" (20 cm) above the high point for one-piece door without track.

This height will provide travel clearance for the top edge of the door.

NOTE: If the total number of inches exceeds the height available in your garage, use the maximum height possible, or refer to page 13 for ceiling installation.

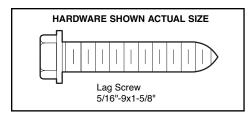


INSTALLATION STEP 2 Install the Header Bracket

You can attach the header bracket either to the wall above the garage door, or to the ceiling. Follow the instructions which will work best for your particular requirements. **Do not install the header bracket over drywall. If installing into masonry, use concrete anchors (not provided).**

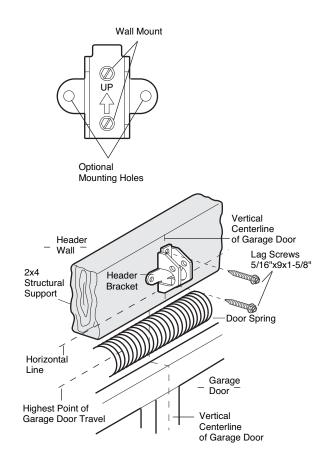
WALL HEADER BRACKET INSTALLATION

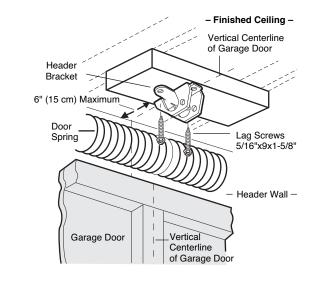
- Center the bracket on the vertical centerline with the bottom edge of the bracket on the horizontal line as shown (with the arrow pointing toward the ceiling).
- Mark the vertical set of bracket holes. Drill 3/16" pilot holes and fasten the bracket securely to a structural support with the hardware provided.



CEILING HEADER BRACKET INSTALLATION

- Extend the vertical centerline onto the ceiling as shown.
- Center the bracket on the vertical mark, no more than 6" (15 cm) from the wall. Make sure the arrow is pointing away from the wall. The bracket can be mounted flush against the ceiling when clearance is minimal.
- Mark the side holes. Drill 3/16" pilot holes and fasten bracket securely to a structural support with the hardware provided.



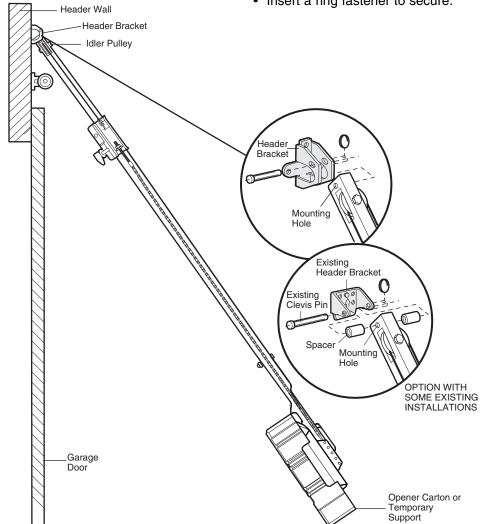


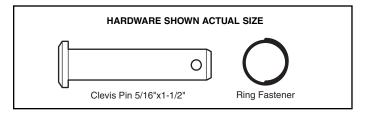
Ceiling Mounting Holes

INSTALLATION STEP 3 Attach the Rail to the Header Bracket

NOTE: (Optional) With some existing installations, you may re-use the old header bracket with the two plastic spacers included in the hardware bag. Place the spacers inside the bracket on each side of the rail, as illustrated.

- · Position the opener on the garage floor below the header bracket. Use packing material as a protective base. NOTE: If the door spring is in the way you'll need help. Have someone hold the opener securely on a temporary support to allow the rail to clear the spring.
- Position the rail bracket against the header bracket.
- · Align the bracket holes and join with a clevis pin as shown.
- · Insert a ring fastener to secure.





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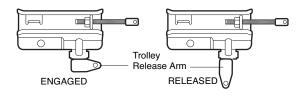
INSTALLATION STEP 4 *Position the Opener*

Follow instructions which apply to your door type as illustrated.

SECTIONAL DOOR OR ONE-PIECE DOOR WITH TRACK

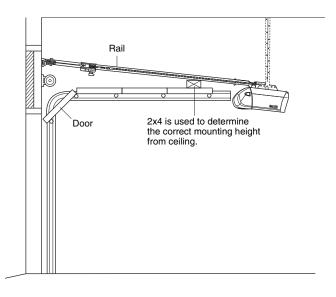
A 2x4 laid flat is convenient for setting an ideal door-to-rail distance.

- Remove foam packaging.
- Raise the opener onto a stepladder. You will need help at this point if the ladder is not tall enough.
- Open the door all the way and place a 2x4 laid flat on the top section beneath the rail.
- If the top section or panel hits the trolley when you raise the door, pull down on the trolley release arm to disconnect inner and outer sections. Slide the outer trolley toward the motor unit. The trolley can remain disconnected until Installation Step 12 is completed.



CAUTION

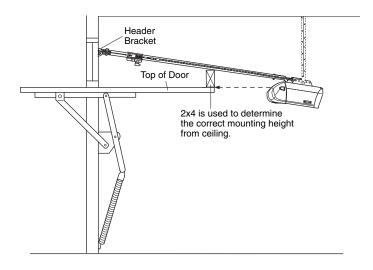
To prevent damage to garage door, rest garage door opener rail on 2x4 placed on top section of door.



ONE-PIECE DOOR WITHOUT TRACK

A 2x4 on its side is convenient for setting an ideal door-to-rail distance.

- · Remove foam packaging.
- Raise the opener onto a stepladder. You will need help at this point if the ladder is not tall enough.
- Open the door all the way and place a 2x4 on its side on the top section of the door beneath the rail.
- The top of the door should be level with the top of the motor unit. Do not position the opener more than 4" (10 cm) above this point.



INSTALLATION STEP 5 Hang the Opener

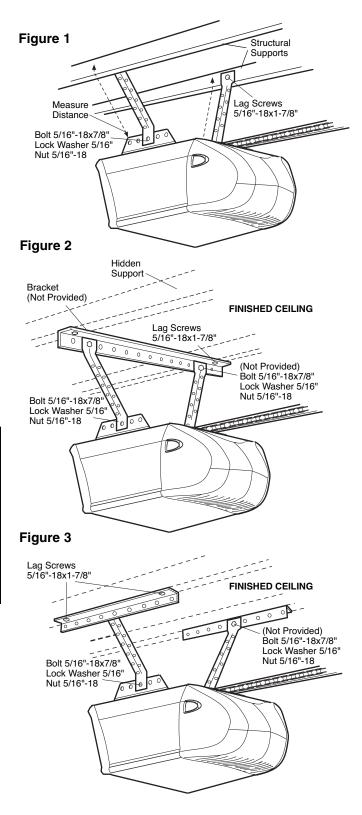
Three representative installations are shown. Yours may be different. Hanging brackets should be angled (Figure 1) to provide rigid support. On finished ceilings (Figure 2 and Figure 3), attach a sturdy metal bracket to structural supports before installing the opener. This bracket and fastening hardware are not provided.

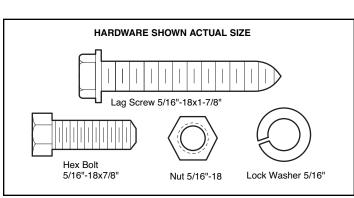
- 1. Measure the distance from each side of the motor unit to the structural support.
- 2. Cut both pieces of the hanging bracket to required lengths.
- 3. Drill 3/16" pilot holes in the structural supports.
- 4. Attach one end of each bracket to a support with 5/16"-18x1-7/8" lag screws.
- 5. Fasten the opener to the hanging brackets with 5/16"-18x7/8" hex bolts, lock washers and nuts.
- 6. Check to make sure the rail is centered over the door (or in line with the header bracket if the bracket is not centered above the door).
- 7. Remove the 2x4. Operate the door manually. If the door hits the rail, raise the header bracket.

NOTE: DO NOT connect power to opener at this time.

A WARNING

To avoid possible SERIOUS INJURY from a falling garage door opener, fasten it SECURELY to structural supports of the garage. Concrete anchors MUST be used if installing any brackets into masonry.





INSTALLATION STEP 6 Install the Door Control

Locate door control within sight of door at a minimum height of 5 feet (1.5 m) where small children cannot reach, and away from moving parts of door and door hardware.

- 1. Strip 7/16" of insulation from one end of bell wire and connect to the two screw terminals on back of door control by color: white wire to 2 and white/red wire to the 1.
- Fasten the Lighted Door Control Button securely with 6ABx1-1/2" screws. If installing into drywall, drill 5/32" holes and use the anchors provided.
- Run bell wire up wall and across ceiling to motor unit. Use insulated staples to secure wire in several places. Do not pierce wire with a staple, creating a short or open circuit.
- 4. Strip 7/16" of insulation from end of bell wire. Connect bell wire to the quick-connect terminals as follows: white to white and white/red to red.

NOTE: When connecting multiple door controls to the opener, twist same color wires together. Insert wires into quick-connect holes: white to white and red/white to red.

5. Use tacks or staples to permanently attach entrapment warning label to wall near door control, and manual release/safety reverse test label in a prominent location on inside of garage door.

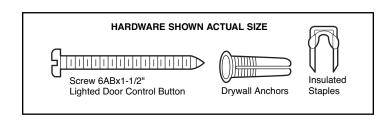
NOTE: DO NOT connect the power and operate the opener at this time. The trolley will travel to the full open position but will not return to the close position until the sensor beam is connected and properly aligned.

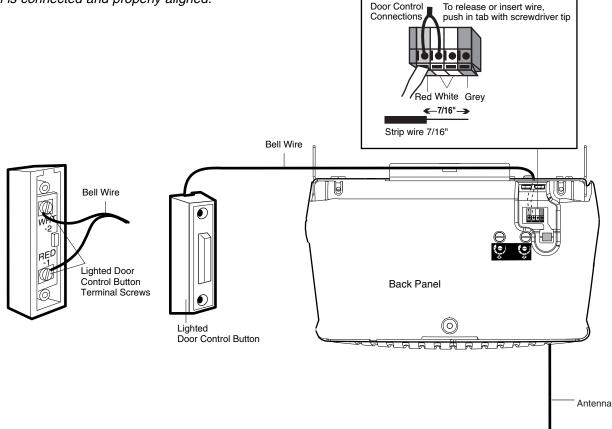
To prevent possible SERIOUS INJURY or DEATH from electrocution:

- Be sure power is not connected BEFORE installing door control.
- Connect ONLY to 24 VOLT low voltage wires.

To prevent possible SERIOUS INJURY or DEATH from a closing garage door:

- Install door control within sight of garage door, out of reach of children at a minimum height of 5 feet (1.5 m), and away from all moving parts of door.
- NEVER permit children to operate or play with door control push buttons or remote control transmitters.
- Activate door ONLY when it can be seen clearly, is properly adjusted, and there are no obstructions to door travel.
- ALWAYS keep garage door in sight until completely closed. NEVER permit anyone to cross path of closing garage door.





INSTALLATION STEP 7 Install the Light

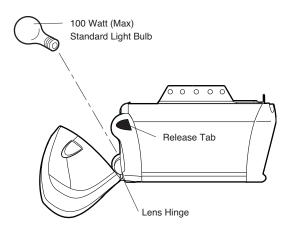
- Press the release tabs on both sides of lens. Gently rotate lens back and downward until the lens hinge is in the fully open position. Do not remove the lens.
- Install up to a 100 watt maximum light bulb in the socket. Light bulb size should be A19, standard neck only. The light will turn ON and remain lit for approximately 4-1/2 minutes when power is connected. Then the light will turn OFF.
- Reverse the procedure to close the lens.
- If the bulb burns out prematurely due to vibration, replace with a Garage Door Opener bulb.
- Use A19, standard neck garage door opener bulbs for replacement.

NOTE: Use only a standard light bulb. The use of a short neck or speciality light bulb may overheat the endpanel or light socket.

CAUTION

To prevent possible OVERHEATING of the endpanel or light socket,

- DO NOT use short neck or specialty light bulbs.
- DO NOT use halogen bulbs. Use ONLY incandescent.
- To prevent damage to the opener:
- DO NOT use bulbs larger than 100W
- ONLY use A19 size bulbs.



INSTALLATION STEP 8 Attach the Emergency Release Rope and Handle

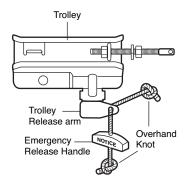
- Thread one end of the rope through the hole in the top of the red handle so "NOTICE" reads right side up as shown. Secure with an overhand knot at least 1" (2.5 cm) from the end of the rope to prevent slipping.
- Thread the other end of the rope through the hole in the release arm of the outer trolley.
- Adjust rope length so the handle is 6 feet (1.83 m) above the floor. Ensure that the rope and handle clear the tops of all vehicles to avoid entanglement. Secure with an overhand knot.

NOTE: If it is necessary to cut the rope, heat seal the cut end with a match or lighter to prevent unraveling.

A WARNING

To prevent possible SERIOUS INJURY or DEATH from a falling garage door:

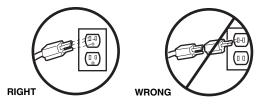
- If possible, use emergency release handle to disengage trolley ONLY when garage door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless garage doorway is clear of persons and obstructions.
- NEVER use handle to pull door open or closed. If rope knot becomes untied, you could fall.



INSTALLATION STEP 9 Electrical Requirements

To avoid installation difficulties, do not run the opener at this time.

To reduce the risk of electric shock, your garage door opener has a grounding type plug with a third grounding pin. This plug will only fit into a grounding type outlet. If the plug doesn't fit into the outlet you have, contact a qualified electrician to install the proper outlet.



If permanent wiring is required by your local code, refer to the following procedure.

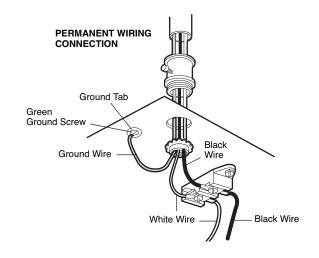
To make a permanent connection through the 7/8" hole in the top of the motor unit:

- Remove the motor unit cover screws and set the cover aside.
- Remove the attached 3-prong cord.
- Connect the black (line) wire to the screw on the brass terminal; the white (neutral) wire to the screw on the silver terminal; and the ground wire to the green ground screw. **The opener must be grounded.**
- · Reinstall the cover.

To avoid installation difficulties, do not run the opener at this time.

To prevent possible SERIOUS INJURY or DEATH from electrocution or fire:

- Be sure power is NOT connected to the opener, and disconnect power to circuit BEFORE removing cover to establish permanent wiring connection.
- Garage door installation and wiring MUST be in compliance with all local electrical and building codes.
- NEVER use an extension cord, 2-wire adapter, or change plug in any way to make it fit outlet. Be sure the opener is grounded.



INSTALLATION STEP 10 Install The Protector System®

The safety reversing sensor must be connected and aligned correctly before the garage door opener will move in the down direction.

IMPORTANT INFORMATION ABOUT THE SAFETY REVERSING SENSOR

When properly connected and aligned, the sensor will detect an obstacle in the path of its electronic beam. The sending eye (with an amber indicator light) transmits an invisible light beam to the receiving eye (with a green indicator light). If an obstruction breaks the light beam while the door is closing, the door will stop and reverse to full open position, and the opener lights will flash 10 times.

The units must be installed inside the garage so that the sending and receiving eyes face each other across the door, no more than 6" (15 cm) above the floor. Either can be installed on the left or right of the door as long as the sun never shines directly into the receiving eye lens.

The mounting brackets are designed to clip onto the track of sectional garage doors without additional hardware.

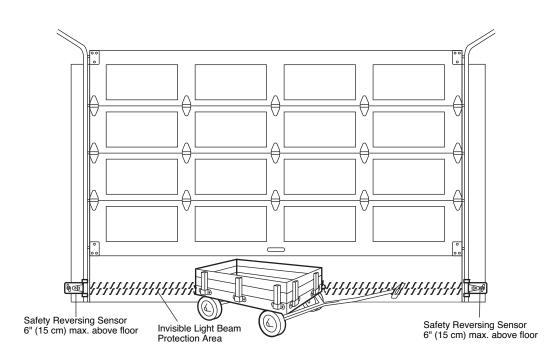
A WARNING

Be sure power is NOT connected to the garage door opener BEFORE installing the safety reversing sensor. To prevent SERIOUS INJURY or DEATH from a closing garage door:

- Correctly connect and align the safety reversing sensor. This required safety device MUST NOT be disabled.
- Install the safety reversing sensor so beam is NO HIGHER than 6" (15 cm) above garage floor.

If it is necessary to mount the units on the wall, the brackets must be securely fastened to a solid surface such as the wall framing. Extension brackets (see accessories) are available if needed. If installing in masonry construction, add a piece of wood at each location to avoid drilling extra holes in masonry if repositioning is necessary.

The invisible light beam path must be unobstructed. No part of the garage door (or door tracks, springs, hinges, rollers or other hardware) may interrupt the beam while the door is closing.



Facing the door from inside the garage

INSTALLING THE BRACKETS

Be sure power to the opener is disconnected. Install and align the brackets so the sensors will face each other across the garage door, with the beam no higher than 6" (15 cm) above the floor. They may be installed in one of three ways, as follows.

Garage door track installation (preferred):

• Slip the curved arms over the rounded edge of each door track, with the curved arms facing the door. Snap into place against the side of the track. It should lie flush, with the lip hugging the back edge of the track, as shown in Figure 1.

If your door track will not support the bracket securely, wall installation is recommended.

Wall installation (Figure 2 & 3):

- Place the bracket against the wall with curved arms facing the door. Be sure there is enough clearance for the sensor beam to be unobstructed.
- If additional depth is needed, an extension bracket (See Accessories) or wood blocks can be used.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on the wall at each side of the door, no higher than 6" (15 cm) above the floor.
- Attach brackets to wall with lag screws (Not provided).
- If using extension brackets or wood blocks, adjust right and left assemblies to the same distance out from the mounting surface. Make sure all door hardware obstructions are cleared.

Floor installation (Figure 4):

- Use wood blocks or extension brackets (See Accessories) to elevate sensor brackets so the lenses will be no higher than 6" (15 cm) above the floor.
- Carefully measure and place right and left assemblies at the same distance out from the wall. Be sure all door hardware obstructions are cleared.
- Fasten to the floor with concrete anchors as shown.



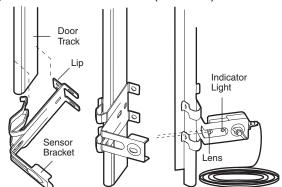


Figure 2 WALL MOUNT (RIGHT SIDE)

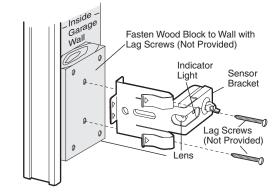
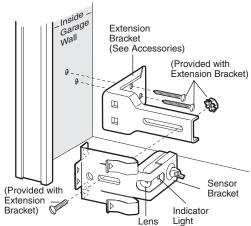
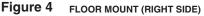
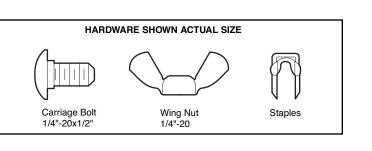
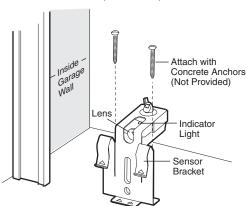


Figure 3 WALL MOUNT (RIGHT SIDE)









MOUNTING AND WIRING THE SAFETY REVERSING SENSORS

- Slide a 1/4"-20x1/2" carriage bolt head into the slot on each sensor. Use wing nuts to fasten sensors to brackets, with lenses pointing toward each other across the door. Be sure the lens is not obstructed by a bracket extension (Figure 5).
- Finger tighten the wing nuts.
- Run the wires from both sensors to the opener. Use insulated staples to secure wire to wall and ceiling.
- Strip 7/16" (11 mm) of insulation from each set of wires. Separate white and white/black wires sufficiently to connect to the opener quick-connect terminals. Twist like colored wires together. Insert wires into quickconnect holes: white to white and white/black to grey (Figure 6).

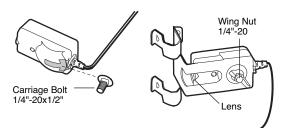
ALIGNING THE SAFETY REVERSING SENSORS

• Plug in the opener. The indicator lights in both the *sending* and *receiving eyes* will *glow steadily* if wiring connections and alignment are correct.

The *sending* eye amber indicator light will glow regardless of alignment or obstruction. If the green indicator light in the *receiving eye* is off, dim, or flickering (and the invisible light beam path is not obstructed), alignment is required.

- Loosen the *sending eye* wing nut and readjust, aiming directly at the *receiving eye*. Lock in place.
- Loosen the *receiving eye* wing nut and adjust sensor until it receives the sender's beam. When the green indicator light *glows steadily*, tighten the wing nut.

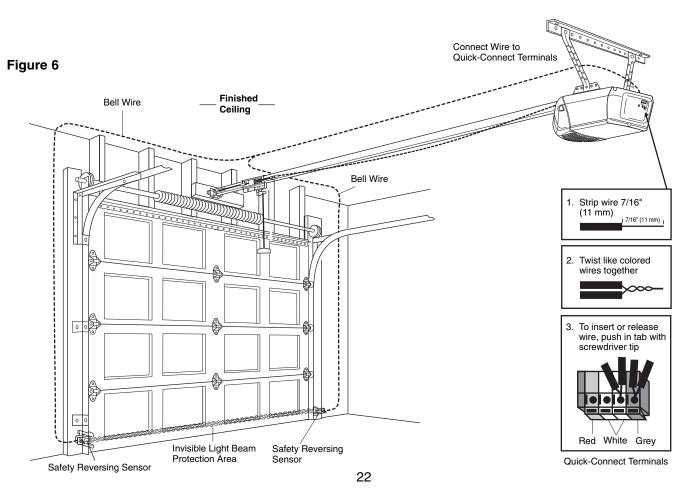
Figure 5



TROUBLESHOOTING THE SAFETY REVERSING SENSORS

- 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 at staples, or at opener connections.
 - Incorrect wiring between sensors and opener.
 - A broken wire.
- 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.
- 3. If the *receiving eye* indicator light is dim, realign either sensor.

NOTE: When the invisible beam path is obstructed or misaligned while the door is closing, the door will reverse. If the door is already open, it will not close. The opener lights will blink 10 times. See page 20.



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INSTALLATION STEP 11 Fasten the Door Bracket

Follow instructions which apply to your door type as illustrated below or on the following page.

A horizontal reinforcement brace should be long enough to be secured to two or three vertical supports. A vertical reinforcement brace should cover the height of the top panel.

Figure 1 shows one piece of angle iron as the horizontal brace. For the vertical brace, 2 pieces of angle iron are used to create a U-shaped support. The best solution is to check with your garage door manufacturer for an opener installation door reinforcement kit.

NOTE: Many door reinforcement kits provide for direct attachment of the clevis pin and door arm. In this case you will not need the door bracket; proceed to Step 12.

SECTIONAL DOORS

- 1. Center the door bracket on the previously marked vertical centerline used for the header bracket installation. Note correct UP placement, as stamped inside the bracket.
- Position the top edge of the bracket 2"-4" (5-10 cm) below the top edge of the door, OR directly below any structural support across the top of the door.
- 3. Mark, drill holes and install as follows, depending on your door's construction:

Metal or light weight doors using a vertical angle iron brace between the door panel support and the door bracket:

- Drill 3/16" fastening holes. Secure the door bracket using the two 1/4"-14x5/8" self-threading screws. (Figure 2A)
- Alternately, use two 5/16" bolts, lock washers and nuts (not provided). (Figure 2B)

Metal, insulated or light weight factory reinforced doors:

• Drill 3/16" fastening holes. Secure the door bracket using the self-threading screws (Figure 3).

Wood Doors:

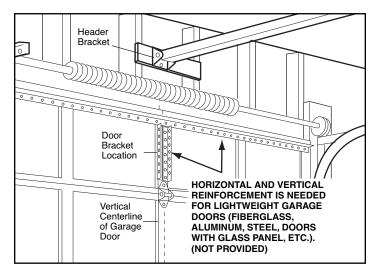
 Use top and bottom or side to side door bracket holes. Drill 5/16" holes through the door and secure bracket with 5/16"x2" carriage bolts, lock washers and nuts (not provided). (Figure 4)

NOTE: The 1/4"-14x5/8" self-threading screws are not intended for use on wood doors.



CAUTION

Fiberglass, aluminum or lightweight steel garage doors **WILL REQUIRE** reinforcement BEFORE installation of door bracket. Contact your door manufacturer for reinforcement kit.





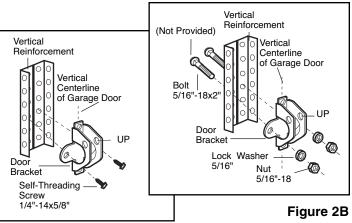


Figure 2A

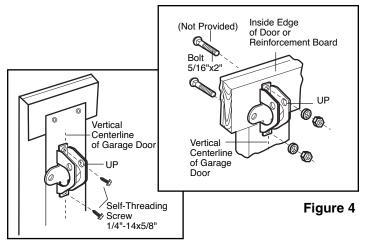


Figure 3

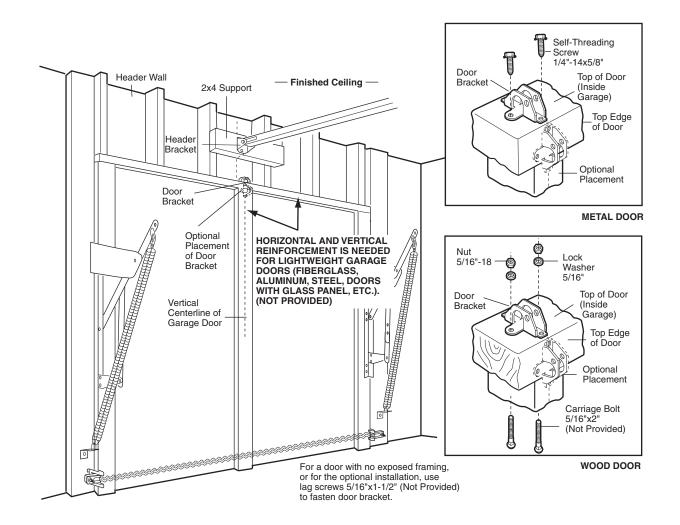
ONE-PIECE DOORS

Please read and comply with the warnings and reinforcement instructions on the previous page. They apply to one-piece doors also.

- Center the door bracket on the top of the door, in line with the header bracket as shown. Mark either the left and right, or the top and bottom holes.
- *Metal Doors:* Drill 3/16" pilot holes and fasten the bracket with the 1/4"-14x5/8" self-threading screws provided.
- Wood Doors: Drill 5/16" holes and use 5/16"x2" carriage bolts, lock washers and nuts (not provided) or 5/16"x1-1/2" lag screws (not provided) depending on your installation needs.

NOTE: The door bracket may be installed on the top edge of the door if required for your installation. (Refer to the dotted line optional placement drawing.)





INSTALLATION STEP 12 *Connect Door Arm to Trolley*

Follow instructions which apply to your door type as illustrated below and on the following page.

SECTIONAL DOORS ONLY

- Make sure garage door is fully closed. Pull the emergency release handle to disconnect the outer trolley from the inner trolley. Slide the outer trolley back (away from the pulley) about 8" (20 cm) as shown in Figures 1, 2 and 3.
- Figure 1:
 - Fasten straight door arm section to outer trolley with the 5/16"x1" clevis pin. Secure the connection with a ring fastener.
 - Fasten curved section to the door bracket in the same way, using the 5/16"x1-1/4" clevis pin.
- Figure 2:
 - Bring arm sections together. Find two pairs of holes that line up and join sections. Select holes as far apart as possible to increase door arm rigidity.
- Figure 3, Hole alignment alternative:
 - If holes in curved arm are above holes in straight arm, disconnect straight arm. Cut about 6" (15 cm) from the solid end. Reconnect to trolley with cut end down as shown.
 - Bring arm sections together.
 - Find two pairs of holes that line up and join with bolts, lock washers and nuts.
- Pull the emergency release handle toward the opener at a 45° angle so that the trolley release arm is horizontal. Proceed to Adjustment Step 1, page 27. Trolley will re-engage automatically when opener is operated.

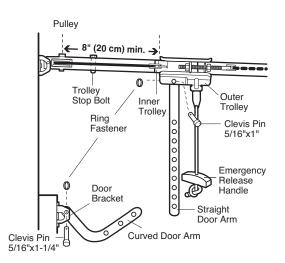
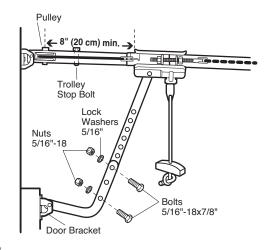
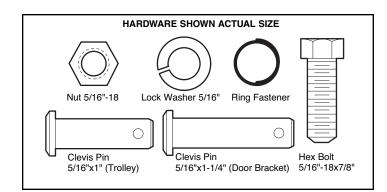


Figure 1







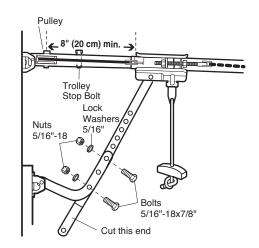


Figure 3

ALL ONE-PIECE DOORS

1. Assemble the door arm, Figure 4:

- Fasten the straight and curved door arm sections together to the longest possible length (with a 2 or 3 hole overlap).
- With the door closed, connect the straight door arm section to the door bracket with the 5/16"x1-1/4" clevis pin.
- Secure with a ring fastener.

2. Adjustment procedures, Figure 5:

- On one-piece doors, before connecting the door arm to the trolley, the travel limits must be adjusted. Limit adjustment screws are located on the left side panel as shown on page 27. Follow adjustment procedures below.
- Open door adjustment: decrease UP travel limit
- Turn the UP limit adjustment screw counter-clockwise 4 turns.
- Press the Door Control push button. The trolley will travel to the fully open position.
- Manually raise the door to the open position (parallel to the floor), and lift the door arm to the trolley. The arm should touch the trolley just in back of the door arm connector hole. Refer to the fully open trolley/ door arm positions in the illustration. If the arm does not extend far enough, adjust the limit further. One full turn equals 2" (5 cm) of trolley travel.
- Closed door adjustment: decrease DOWN travel limit
- Turn the DOWN limit adjustment screw clockwise 4 complete turns.

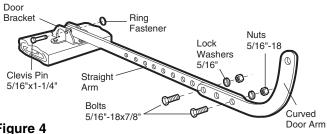


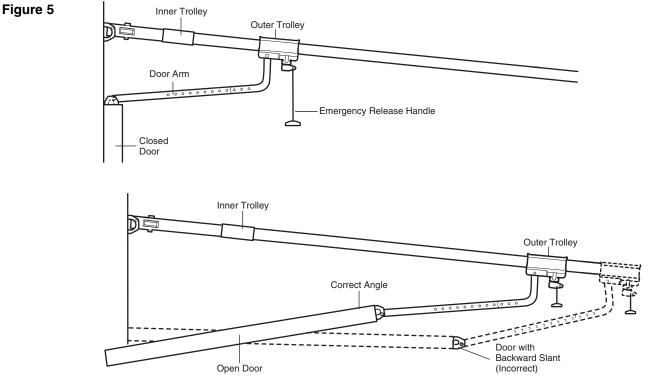
Figure 4

- Press the Door Control push button. The trolley will travel to the fully closed position.
- Manually close the door and lift the door arm to the trolley. The arm should touch the trolley just ahead of the door arm connector hole. Refer to the fully closed trolley/door arm positions in the illustration. If the arm is behind the connector hole, adjust the limit further. One full turn equals 2" (5 cm) of trolley travel.

3. Connect the door arm to the trolley:

- Close the door and join the curved arm to the connector hole in the trolley with the remaining clevis pin. It may be necessary to lift the door slightly to make the connection.
- · Secure with a ring fastener.
- Run the opener through a complete travel cycle. If the door has a slight "backward" slant in full open position as shown in the illustration, decrease the UP limit until the door is parallel to the floor.

NOTE: When setting the up limit on the following page, the door should not have a "backward" slant when fully open as illustrated below. A slight backward slant will cause unnecessary bucking and/or jerking operation as the door is being opened or closed from the fully open position.



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ADJUSTMENT STEP 1 Adjust the UP and DOWN Travel Limits

Limit adjustment settings regulate the points at which the door will stop when moving up or down.

To operate the opener, press the Door Control push bar. Run the opener through a complete travel cycle.

- Does the door open and close completely?
- · Does the door stay closed and not reverse unintentionally when fully closed?

If your door passes both of these tests, no limit adjustments are necessary unless the reversing test fails (Adjustment Step 3, page 29).

Adjustment procedures are outlined below. Read the procedures carefully before proceeding to Adjustment Step 2. Use a screwdriver to make limit adjustments. Run the opener through a complete travel cycle after each adjustment.

NOTE: Repeated operation of the opener during adjustment procedures may cause the motor to overheat and shut off. Simply wait 15 minutes and try again.

NOTE: If anything interferes with the door's upward travel, it will stop. If anything interferes with the door's downward travel (including binding or unbalanced doors), it will reverse.

HOW AND WHEN TO ADJUST THE LIMITS

 If the door does not open completely but opens at least five feet (1.5 m):

Increase up travel. Turn the UP limit adjustment screw clockwise. One turn equals 2" (5 cm) of travel.

NOTE: To prevent the trolley from hitting the cover protection bolt, keep a minimum distance of 2-4" (5 cm - 10 cm) between the trolley and the bolt.

• If door does not open at least 5 feet (1.5 m):

Adjust the UP (open) force as explained in Adjustment Step 2.

• If the door does not close completely:

Increase down travel. Turn the down limit adjustment screw counterclockwise. One turn equals 2" (5 cm) of travel.

If door still won't close completely and the trolley bumps into the pulley bracket (page 4), try lengthening the door arm (page 25) and decreasing the down limit.

• If the opener reverses in fully closed position:

Decrease down travel. Turn the down limit adjustment screw clockwise. One turn equals 2" (5 cm) of travel.

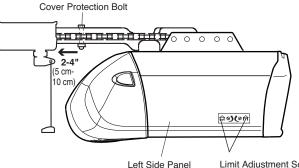
WARNING

Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing garage door.

- Incorrect adjustment of garage door travel limits will interfere with proper operation of safety reversal system.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After ANY adjustments are made, the safety reversal system MUST be tested. Door MUST reverse on contact with 1-1/2" high (3.8 cm) object (or 2x4 laid flat) on floor.

CAUTION

To prevent damage to vehicles, be sure fully open door provides adequate clearance.



Limit Adjustment Screws



 If the door reverses when closing and there is no visible interference to travel cycle:

If the opener lights are flashing, the Safety Reversing Sensors are either not installed, misaligned, or obstructed. See Troubleshooting, page 22.

Test the door for binding: Pull the emergency release handle. Manually open and close the door. If the door is binding or unbalanced, call for a trained door systems technician. If the door is balanced and not binding, adjust the DOWN (close) force. See Adjustment Step 2.

ADJUSTMENT STEP 2 Adjust the Force

Force adjustment controls are located on the back panel of the motor unit. Force adjustment settings regulate the amount of power required to open and close the door.

If the forces are set too light, door travel may be interrupted by nuisance reversals in the down direction and stops in the up direction. Weather conditions can affect the door movement, so occasional adjustment may be needed.

The maximum force adjustment range is about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.

NOTE: If anything interferes with the door's upward travel, it will stop. If anything interferes with the door's downward travel (including binding or unbalanced doors), it will reverse.

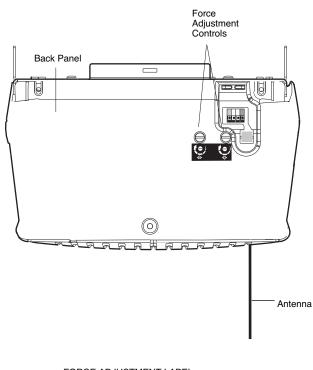
HOW AND WHEN TO ADJUST THE FORCES

1. Test the DOWN (close) force

- Grasp the door bottom when the door is about halfway through DOWN (close) travel. The door should reverse. Reversal halfway through down travel does not guarantee reversal on a 1-1/2" (3.8 cm) obstruction. See Adjustment Step 3, page 29. If the door is hard to hold or doesn't reverse, DECREASE the DOWN (close) force by turning the control counterclockwise. Make small adjustments until the door reverses normally. After each adjustment, run the opener through a complete cycle.
- If the door reverses during the down (close) cycle and the opener lights aren't flashing, INCREASE DOWN (close) force by turning the control clockwise. Make small adjustments until the door completes a close cycle. After each adjustment, run the opener through a complete travel cycle. *Do not increase the force beyond the minimum amount required to close the door.*
- 2. Test the UP (open) force
 - Grasp the door bottom when the door is about halfway through UP (open) travel. The door should stop. If the door is hard to hold or doesn't stop, DECREASE UP (open) force by turning the control counterclockwise. Make small adjustments until the door stops easily and opens fully. After each adjustment, run the opener through a complete travel cycle.
 - If the door doesn't open at least 5 feet (1.5 m), INCREASE UP (open) force by turning the control clockwise. Make small adjustments until door opens completely. Readjust the UP limit if necessary. After each adjustment, run the opener through a complete travel cycle.

Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing garage door.

- Too much force on garage door will interfere with proper operation of safety reversal system.
- NEVER increase force beyond minimum amount required to close garage door.
- NEVER use force adjustments to compensate for a binding or sticking garage door.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After ANY adjustments are made, the safety reversal system MUST be tested. Door MUST reverse on contact with 1-1/2" high (3.8 cm) object (or 2x4 laid flat) on floor.



FORCE ADJUSTMENT LABEL



Open Force

Close Force

ADJUSTMENT STEP 3 Test the Safety Reversal System

TEST

- With the door fully open, place a 1-1/2" (3.8 cm) board (or a 2x4 laid flat) on the floor, centered under the garage door.
- Operate the door in the down direction. The door **must** reverse on striking the obstruction.

ADJUST

 If the door stops on the obstruction, it is not traveling far enough in the down direction. Increase the DOWN limit by turning the DOWN limit adjustment screw counterclockwise 1/4 turn.

NOTE: On a sectional door, make sure limit adjustments do not force the door arm beyond a straight up and down position. See the illustration on page 25.

- · Repeat the test.
- When the door reverses on the 1-1/2" (3.8 cm) board, remove the obstruction and run the opener through 3 or 4 complete travel cycles to test adjustment.
- If the unit continues to fail the Safety Reverse Test, call for a trained door systems technician.

IMPORTANT SAFETY CHECK:

Test the Safety Reverse System after:

- Each adjustment of door arm length, limits, or force controls.
- Any repair to or adjustment of the garage door (including springs and hardware).
- Any repair to or buckling of the garage floor.
- Any repair to or adjustment of the opener.

ADJUSTMENT STEP 4 Test The Protector System®

- · Press the remote control push button to open the door.
- Place the opener carton in the path of the door.
- Press the remote control push button to close the door. The door will not move more than an inch (2.5 cm), and the opener lights will flash.

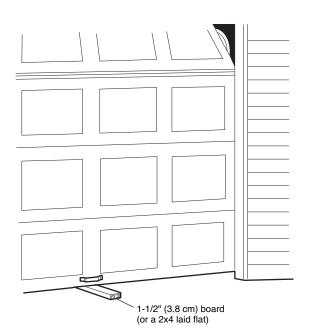
The garage door opener will not close from a remote if the indicator light in either sensor is off (alerting you to the fact that the sensor is misaligned or obstructed).

If the opener closes the door when the safety reversing sensor is obstructed (and the sensors are no more than 6" (15 cm) above the floor), call for a trained door systems technician.

WARNING

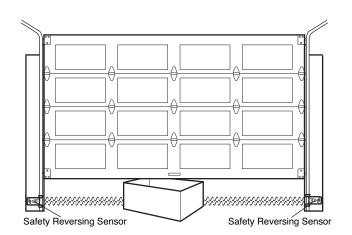
Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing garage door.

- Safety reversal system MUST be tested every month.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After ANY adjustments are made, the safety reversal system MUST be tested. Door MUST reverse on contact with 1-1/2" high (3.8 cm) object (or 2x4 laid flat) on the floor.



A WARNING

Without a properly installed safety reversing sensor, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing garage door.



OPERATION

IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of SEVERE INJURY or DEATH:

- 1. READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS.
- ALWAYS keep remote controls out of reach of children. NEVER permit children to operate or play with garage door control push buttons or remote controls.
- 3. ONLY activate garage door when it can be seen clearly, it is properly adjusted, and there are no obstructions to door travel.
- 4. ALWAYS keep garage door in sight until completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
- 5. NO ONE SHOULD GO UNDER A STOPPED, PARTIALLY OPENED DOOR.
- 6. If possible, use emergency release handle to disengage trolley ONLY when garage door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- 7. NEVER use emergency release handle unless garage doorway is clear of persons and obstructions.
- 8. NEVER use handle to pull garage door open or closed. If rope knot becomes untied, you could fall.
- Using Your Garage Door Opener

Your Security solution of the instructions in the *Programming* section.

Activate your opener with any of the following:

- *The hand-held Remote Control:* Hold the large push button down until the door starts to move.
- *The wall-mounted Door Control:* Hold the push button or bar down until the door starts to move.
- The Keyless Entry (See Accessories): If provided with your garage door opener, it must be programmed before use. See Programming.

When the opener is activated (with the safety reversing sensor correctly installed and aligned)

- 1. If open, the door will close. If closed, it will open.
- 2. If closing, the door will reverse.
- 3. If opening, the door will stop.
- 4. If the door has been stopped in a partially open position, it will close.
- 5. If obstructed while closing, the door will reverse. If the

- 9. If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- 10. After ANY adjustments are made, the safety reversal system MUST be tested.
- Safety reversal system MUST be tested every month. Garage door must reverse on contact with 1-1/2" high (3.8 cm) object (or a 2x4 laid flat) on the floor.
- 12. ALWAYS KEEP GARAGE DOOR PROPERLY BALANCED (see page 3). An improperly balanced door may not reverse when required and could result in SEVERE INJURY or DEATH.
- 13. ALL repairs to cables, spring assemblies and other hardware, ALL of which are under EXTREME tension, MUST be made by a trained door systems technician.
- 14. ALWAYS disconnect electric power to garage door opener BEFORE making ANY repairs or removing covers.

15. SAVE THESE INSTRUCTIONS.

obstruction interrupts the sensor beam, the opener lights will blink for five seconds.

- 6. If obstructed while opening, the door will stop.
- 7. If fully open, the door will not close when the beam is broken. The sensor has no effect in the opening cycle.

If the sensor is not installed, or is misaligned, the door won't close from a hand-held remote. However, you can close the door with the Door Control, the Outside Keylock, or Keyless Entry, *if you activate them until down travel is complete.* If you release them too soon, the door will reverse.

The opener light will turn on under the following conditions: when the opener is initially plugged in; when power is restored after interruption; when the opener is activated.

Light will also turn on when someone walks through the open garage door.

They will turn off automatically after 4-1/2 minutes. Bulb size is A19. Bulb power is 100 watts maximum.

Using the Wall-Mounted Door Control

Press the lighted push button to open or close the door. Press again to reverse the door during the closing cycle or to stop the door while it's opening.



To Open the Door Manually

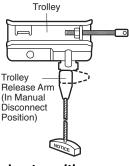
A WARNING

To prevent possible SERIOUS INJURY or DEATH from a falling garage door:

- If possible, use emergency release handle to disengage trolley ONLY when garage door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless garage doorway is clear of persons and obstructions.
- NEVER use handle to pull door open or closed. If rope knot becomes untied, you could fall.

DISCONNECT THE TROLLEY:

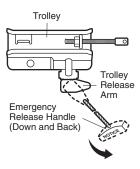
The door should be fully closed if possible. Pull down on the emergency release handle (so that the trollev release arm snaps into a vertical position) and lift the door manually. The lockout feature prevents the trolley from reconnecting automatically, and the door can be raised and lowered manually Lockout position as often as necessary.



(Manual disconnect)

TO RE-CONNECT THE TROLLEY:

Pull the emergency release handle toward the opener at an angle so that the trolley release arm is horizontal. The trolley will reconnect on the next UP or DOWN operation, either manually or by using the door control or remote.



To reconnect

CARE OF YOUR OPENER

LIMIT AND FORCE ADJUSTMENTS:

Weather conditions may cause some minor changes in door operation requiring some re-adjustments, particularly during the first year of operation.



 \oslash

LIMIT CONTROLS

Pages 27 and 28 refer to the limit and force adjustments. Only a screwdriver is required. Follow the instructions carefully.

Repeat the safety reverse test (Adjustment Step 3, page 29) after any adjustment of limits or force.

MAINTENANCE SCHEDULE

Once a Month

- Manually operate door. If it is unbalanced or binding, call a trained door systems technician.
- Check to be sure door opens & closes fully. Adjust limits and/or force if necessary. (See pages 27 and 28)
- Repeat the safety reverse test. Make any necessary adjustments. (See Adjustment Step 3)

Twice a Year

Check chain tension. Disconnect trolley first. Adjust if necessary. (See page 11)

Once a Year

 Oil door rollers, bearings and hinges. The opener does not require additional lubrication. Do not grease the door tracks.

THE REMOTE CONTROL BATTERY

A WARNING

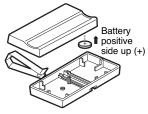
To prevent possible SERIOUS INJURY or DEATH:

- NEVER allow small children near batteries.
- If battery is swallowed, immediately notify doctor.
- To reduce risk of fire, explosion or chemical burn:
- Replace ONLY with 3V2032 coin batteries.
- Do NOT recharge, disassemble, heat above 100°C (212°F) or incinerate.

The lithium battery should produce power for up to 5 years.

To replace battery, use the visor clip or screwdriver blade to pry open the case as shown. Insert battery positive side up (+).

Dispose of old battery properly. Replace the battery with only 3V2032 coin cell batteries.



NOTICE: To comply with FCC and or Industry Canada (IC) rules, adjustment or modifications of this receiver and/or transmitter are prohibited, except for changing the code setting or replacing the battery. THERE ARE NO OTHER USER SERVICEABLE PARTS.

Tested to Comply with FCC Standards FOR HOME OR OFFICE USE. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

HAVING A PROBLEM?

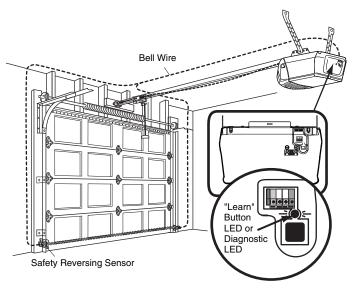
- 1. My door will not close and the light bulbs blink on my motor unit: The safety reversing sensor must be connected and aligned correctly before the garage door opener will move in the down direction.
 - Verify the safety sensors are properly installed, aligned and free of any obstructions. Refer to Installation Step 10: Install The Protector System[®].
 - Check diagnostic LED for flashes on the motor unit then refer to the *Diagnostic Chart* on the following page.

2. My remotes will not activate the door:

- Reprogram remotes following the programming instructions. Refer to *Programming*.
- If remote will still not activate your door, check diagnostic LED for flashes on motor unit then refer to *Diagnostic Chart* on the following page.
- **3. My door reverses for no apparent reason:** Repeat safety reverse test after adjustments to force or travel limits. The need for occasional adjustment for the force and limit settings is normal. Weather conditions in particular can affect door travel.
 - Manually check door for balance or any binding problems.
 - Refer to Adjustment Step 2, Adjust the Force.
- 4. My door reverses for no apparent reason after fully closing and touching the floor: Repeat safety reverse test after adjustments to force or travel limits. The need for occasional adjustment for the force and limit settings is normal. Weather conditions in particular can affect door travel.
 - Refer to Adjustment Step 1, Adjust the UP and DOWN Travel Limits. Decrease down travel by turning down limit adjustment screw clockwise.

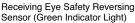
5. My lights will not turn off when door is open:

• The garage door opener is equipped with a security light feature. This feature activates the light on when the safety sensor beam has been obstructed.



Sending Eye Safety Reversing Sensor (Amber Indicator Light)

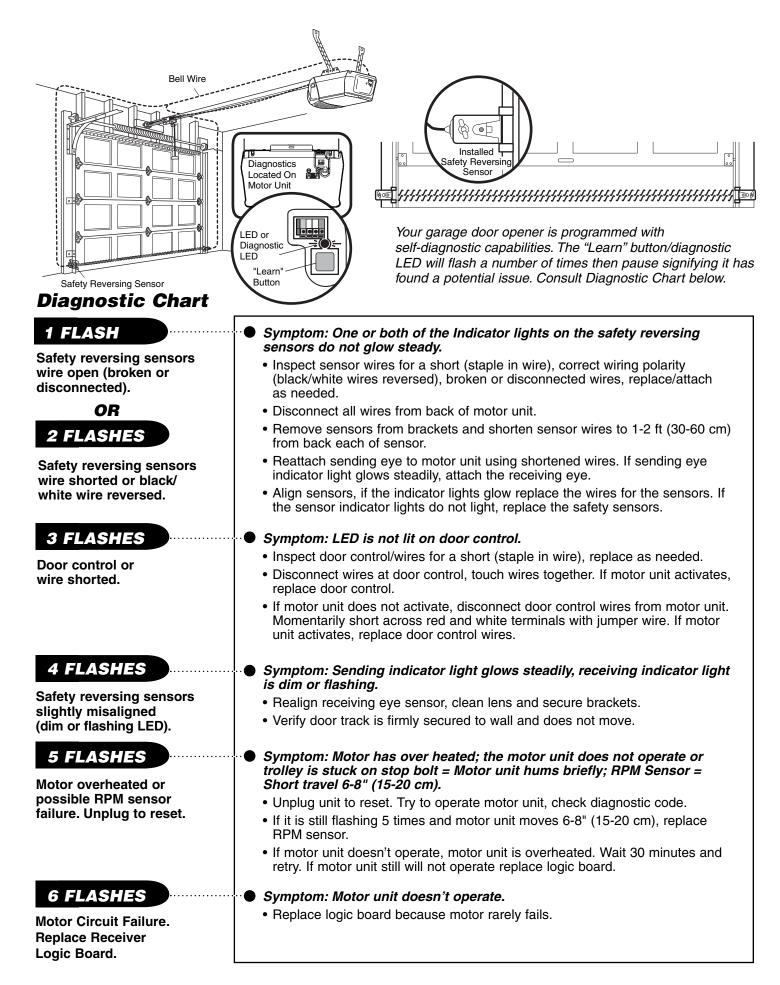






6. My motor unit hums briefly:

- First verify that the trolley is against the stop bolt.
- Release the door from the opener by pulling the Emergency Release Rope.
- Manually bring the door to a closed position.
- Loosen the chain by adjusting the *outer nut* 4 to 5 turns. This relieves the tension.
- Run the motor unit from the remote control or door control. The trolley should travel towards the door and stop. If the trolley re-engages with the door, pull the Emergency Release Rope to disengage.
- Decrease the UP travel by turning the UP Travel adjustment screw 2 full turns *away* from the arrow.
- Re-tighten the outer nut so the chain is a 1/4" (6 mm) above the base of the rail. (When the door is reconnected and closed, the chain will sag. This is normal.)
- If the trolley does not move away from the bolt, repeat the steps above.



PROGRAMMING

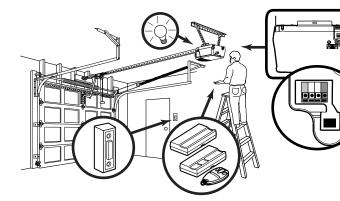
NOTICE: If this Security square door opener is operated with a non-rolling code transmitter, the technical measure in the receiver of the garage door opener, which provides security against code-theft devices, will be circumvented. The owner of the copyright in the garage door opener does not authorize the purchaser or supplier of the non-rolling code transmitter to circumvent that technical measure.

Your garage door opener has already been programmed at the factory to operate with your hand-held remote control. The door will open and close when you press the large push button.

Below are instructions for programming your opener to operate with additional Security + remote controls.

To Add or Reprogram a Hand-held Remote Control

USING THE "LEARN" BUTTON





To deactivate any unwanted remote, first erase all codes:

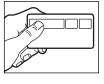
Press and hold the "learn" button on motor unit until the learn indicator light goes out (approximately 6 seconds). All previous codes are now erased. Reprogram each remote or keyless entry you wish to use.



1. Press and release the "learn" button on the motor unit. The learn indicator light will glow steadily for 30 seconds.



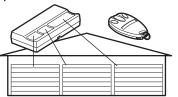
- 2. Within 30 seconds, press and hold the button on the hand-held remote* that you wish to operate your garage door.
- 3. Release the button when the motor unit lights blink. It has learned the code. If light bulbs are not installed, two clicks will be heard.



*3-Button Remotes (315 MHZ) If provided with your garage door opener, the large button

is factory programmed to operate it. Additional buttons on

any Security - 3-Button remote or compact remote can be programmed to operate other Security - garage door openers.

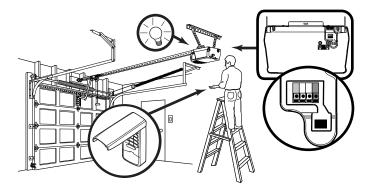




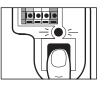
To Add, Reprogram or Change a Keyless Entry PIN

NOTE: Your new Keyless Entry must be programmed to operate your garage door opener.

USING THE "LEARN" BUTTON



1. Press and release the "learn" button on motor unit. The learn indicator light will glow steadily for 30 seconds.



- 2. Within 30 seconds, enter a four digit personal identification number (PIN) of your choice on the keypad. Then press and hold the ENTER button.
- 3. Release the button when the motor unit lights blink. It has learned the code. If light bulbs are not installed, two clicks will be heard.

To set a temporary PIN

You may authorize access by visitors or service people with a temporary 4-digit PIN. After a programmed number of hours or number of accesses, this temporary PIN expires and will no longer open the door. It can be used to *close* the door even after it has expired. To set a temporary PIN:

1. Press the four buttons for your personal entry PIN (not the last temporary PIN), then press and hold the ***** button.

The opener light will blink three times. Release the button.

2. Press the temporary 4-digit PIN you have chosen, then press Enter.

The opener light will blink four times.

3. To set the number of *hours* this temporary PIN will work, press the number of hours (up to 255), then press *****.

OR

3. To set the number of *times* this temporary PIN will work, press the number of times (up to 255), then press #.

The opener light will blink once when the temporary PIN has been learned.

Test by pressing the four buttons for the temporary PIN, then press Enter. The door should move. If the temporary PIN was set to a certain number of openings, remember that the test has used up one opening. To clear the temporary password, repeat steps 1-3, setting the number of hours or times to 0 in step 3.

One Button Close: Opener can be closed by pressing only the ENTER button if the one button close feature has been activated. This feature has been activated at the factory. To activate or deactivate this feature press and hold buttons 1 and 9 for 10 seconds. The keypad will blink twice when the one button close is active. The keypad will blink four times when one button close is deactivated.

To change an existing, known PIN

If the existing PIN is known, it may be changed by one person without using a ladder.

1. Press the four buttons for the present PIN, then press and hold the # button.

The opener light will blink twice. Release the # button.

2. Press the new 4-digit PIN you have chosen, then press Enter.

The motor unit lights will blink once when the PIN has been learned.

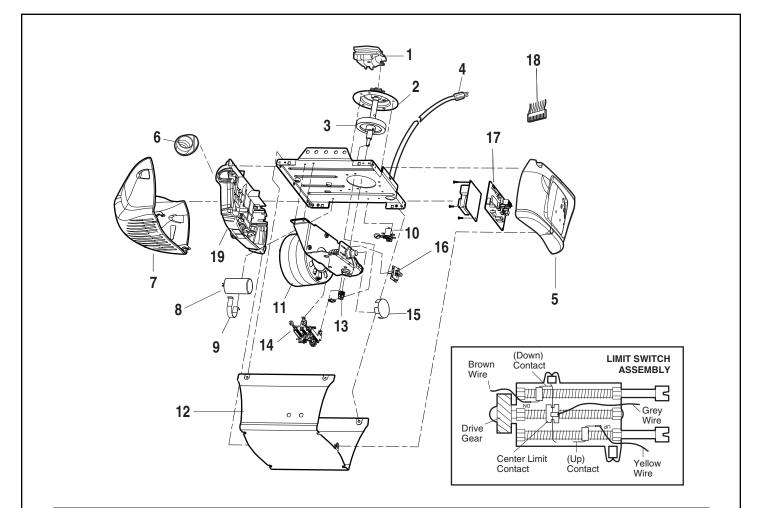
Test by pressing the new PIN, then press Enter. The door should move.

REPAIR PARTS

Rail Assembly Parts				I EE
	EEE CA	EEE	5	
E E E		KEY NO.	PART NO.	DESCRIPTION
		1	4A1008	Master link kit
TE Contraction		2	41C5141-1	Complete trolley assembly
		3	41A5665-2	Complete rail
		4	144C56	Idler pulley
6		5	41A5807	Chain and cable
~		6	12D598-1	"U" bracket
			1001100	NOT SHOWN
			183A163	Wear pads
Installation Parts				
	KEY NO.	PART NO.	DESCRIPT	ION
	1	41A4166	Lighted doo	or control button
	2			
	2	950D	Single-Butt	on remote control
6	3	950D 10A20	-	
	3 4	10A20 29B137	3V2032 Litl Remote co	on remote control hium battery ntrol visor clip
	3 4 5	10A20 29B137 41A2828	3V2032 Littl Remote co Emergency assembly	on remote control hium battery ntrol visor clip release rope and handle
	3 4	10A20 29B137	3V2032 Littl Remote co Emergency assembly	on remote control hium battery ntrol visor clip
	3 4 5 6 7	10A20 29B137 41A2828 41B4494-1 41A5047	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack	on remote control hium battery ntrol visor clip v release rope and handle or bell wire, white and et w clevis pin & fastener
9 - 10	3 4 5 6 7 8	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack	on remote control hium battery ntrol visor clip r release rope and handle or bell wire, white and et w clevis pin & fastener cket w/clevis pin & fastener
9 Nonce 8 10	3 4 5 6 7 8 9	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Curved door	on remote control hium battery ntrol visor clip v release rope and handle or bell wire, white and et w clevis pin & fastener acket w/clevis pin & fastener or arm section
	3 4 5 6 7 8 9 10	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Curved door Straight door	on remote control hium battery ntrol visor clip v release rope and handle or bell wire, white and et w clevis pin & fastener acket w/clevis pin & fastener or arm section or arm section
9 Nonce 8 10	3 4 5 6 7 8 9 10 11	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34 12B776	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Curved door Straight door Hanging br	on remote control hium battery ntrol visor clip v release rope and handle or bell wire, white and et w clevis pin & fastener acket w/clevis pin & fastener or arm section or arm section acket
9 Nonce 8 10 11	3 4 5 6 7 8 9 10	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34	3V2032 Litl Remote co Emergency assembly 2-Conducto white/red Door brack Header bra Curved doo Straight doo Hanging br Safety sens	on remote control hium battery ntrol visor clip v release rope and handle or bell wire, white and et w clevis pin & fastener toket w/clevis pin & fastener or arm section or arm section acket sor kit (receiving and es) with 3' (0.9 m)
9 NOTICE 8 11 11	3 4 5 6 7 8 9 10 11	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34 12B776	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Header brack Curved door Straight door Hanging br Safety sens sending ey 2-conductor Safety sens	on remote control hium battery ntrol visor clip r release rope and handle or bell wire, white and et w clevis pin & fastener acket w/clevis pin & fastener or arm section or arm section acket sor kit (receiving and es) with 3' (0.9 m) r bell wire sor brackets (2)
$ \begin{array}{c} 9 \\ 9 \\ 9 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	3 4 5 6 7 8 9 10 11 12	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34 12B776 41A5034 41A5266-1	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Header brack Curved door Straight door Hanging br Safety sens sending ey 2-conductor Safety sens NOT SHOV Installation	on remote control hium battery ntrol visor clip r release rope and handle or bell wire, white and et w clevis pin & fastener tacket w/clevis pin & fastener or arm section or arm section acket sor kit (receiving and es) with 3' (0.9 m) r bell wire sor brackets (2) VN hardware bag
$ \begin{array}{c} 9 \\ 9 \\ 9 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	3 4 5 6 7 8 9 10 11 12	10A20 29B137 41A2828 41B4494-1 41A5047 41A5047-2 178B35 178B34 12B776 41A5034 41A5266-1	3V2032 Littl Remote con Emergency assembly 2-Conductor white/red Door brack Header brack Header brack Curved door Straight door Hanging br Safety sens sending ey 2-conductor Safety sens NOT SHOV Installation	on remote control hium battery ntrol visor clip r release rope and handle or bell wire, white and et w clevis pin & fastener acket w/clevis pin & fastener or arm section or arm section acket sor kit (receiving and es) with 3' (0.9 m) r bell wire sor brackets (2) VN hardware bag ardware listed on page 7)

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KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	41A5615	Chain Spreader	12	41A5525-5	Cover
2	41C4220A		13	41A2818	Limit switch drive & retainer
		Complete with: Spring washer,	14	41D3452	Limit switch assembly
		thrust washer, retaining ring, bearing plate, roll pins (2), drive	15	41A2822-1	Interrupter cup assembly
		gear and worm gear, helical	16	41C4398A	RPM sensor assembly
3	41A2817	gear w/retainer and grease Drive/worm gear kit w/grease, roll pins (2)	17	41AC050-1M	Receiver logic board assembly. Complete with: Logic board, end panel w/all labels, light
4	41B4245	Line cord			socket
5	41D181	End panels w/all labels	18	41C5497 41C5498	High voltage wire harness Low voltage wire harness
6	4A1344	Light socket	19	41A5484-1	End panel w/all labels
7	108D79	Lens			NOT SHOWN
8	30B532	Capacitor - 1/2 HP		41A2826	Motor shaft bearing kit
9	12A373	Capacitor bracket		41A2825	Opener assembly hardware kit
10	41A3150	Terminal block w/screws			(includes screws not
11	41D3058	Universal replacement motor & bracket assembly. Complete with: Motor, worm, bracket, bearing assembly, RPM sensor			designated by a number in illustration)

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ACCESSORIES



3-Button SECURITY+® Remote Control[®]:

Includes visor clip.



Outside Quick Release:

Required for a garage with NO access door.

956D



3-Button Mini-Remote Control with SECURITY + ® () : With key ring and fastening strip.



Outdoor Key Switch:

Operates the garage door automatically from outside when remote control is not handy.

7708CB



8 Foot (2.4 m) Rail Extension:

To allow an 8 foot (2.4 m) door to open fully.

7710CB



10 Foot (3 m) Rail Extension:

To allow a 10 foot (3 m) door to open fully.

41A5281

Extension Brackets:

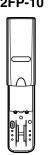
(Optional) For safety sensor installation onto the wall or floor. To order call: 1-800-528-9131

CLLAD



Remote Light Control: Enables homeowner to turn on a

lamp, television or other appliance from their car with their garage door opener remote or from anywhere in their home with an additional Chamberlain Security +
[●] remote.





Finger Print Keyless Entry .

The system uses biometric technology that enables an authorized user to gain access by scanning their fingerprint. The sensor strip on the unit makes a numeric template of the fingerprint that is unique to that user. The unit's memory can store up to ten fingerprints.

940D

garage door opener from outside by entering a password on a specially

SECURITY • Keyless Entry :

Enables homeowner to operate

designed keyboard. Also can add a temporary password for visitors or service persons. This temporary password can be limited to a programmable number of hours or entries.

Multi-Function Door Control Panel:

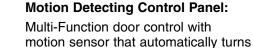
945CB



Provides a Lock feature which prevents operation of garage door opener from portable remotes and a

Light feature for constant light.

935CB





CLDM1



Garage Door Monitor:

when desired.

Monitors the status of your garage door from inside your home.

opener lights on for 5 minutes when it detects a person entering the garage.

Sensor can be easily deactivated

942FP-10



CHAMBERLAIN SERVICE IS ON CALL

OUR LARGE SERVICE ORGANIZATION SPANS AMERICA

INSTALLATION AND SERVICE INFORMATION IS AS NEAR AS YOUR TELEPHONE. SIMPLY DIAL OUR TOLL FREE NUMBER:

1-800-528-9131

www.chamberlain-diy.com

For professional installation, parts and service, contact your local CHAMBERLAIN dealer. Look for him in the Yellow Pages, or call our Service number for a list of dealers in your area.

HOW TO ORDER REPAIR PARTS

Selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PART NUMBER
- PART NAME
- MODEL NUMBER

ADDRESS ORDERS TO: THE CHAMBERLAIN GROUP, INC. Technical Support Group 6050 S. Country Club Road Tucson, Arizona 85706

> SERVICE INFORMATION TOLL FREE NUMBER:

1-800-528-9131

CHAMBERLAIN ONE-YEAR LIMITED WARRANTY SIX-YEAR MOTOR LIMITED WARRANTY

The Chamberlain Group, Inc. ("Seller") warrants to the first retail purchaser of this product, for the residence in which this product is originally installed, that it is free from defect in materials and/or workmanship for a period of one year from the date of purchase [and that the motor is free from defect in materials and/or workmanship for a period of six years from the date of purchase]. The proper operation of this product is dependent on your compliance with the instructions regarding installation, operation, maintenance and testing. Failure to comply strictly with those instructions will void this limited warranty in its entirety.

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