

LiftMaster®

ELITE SERIES®

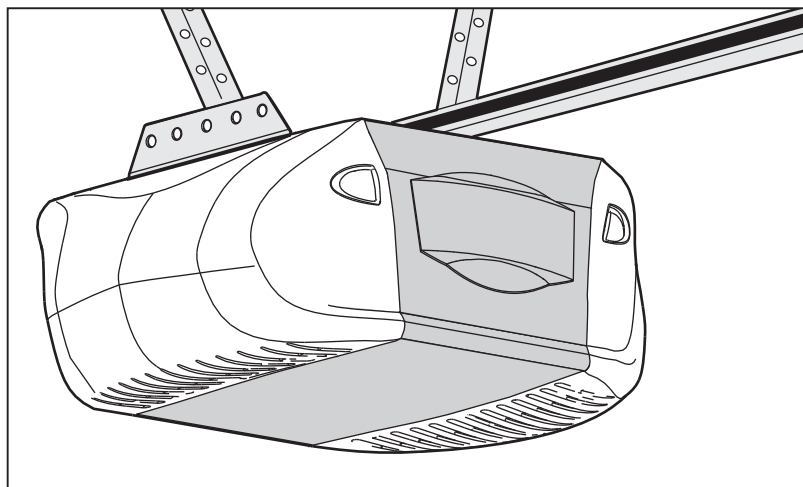
The Chamberlain Group, Inc.
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SECURITY+® GARAGE DOOR OPENER

Model 3585S 3/4 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 under the light lens on the left side panel of your opener.

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INTRODUCTION

Safety Symbol and Signal Word Review

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.



WARNING

Mechanical



WARNING

Electrical

CAUTION

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

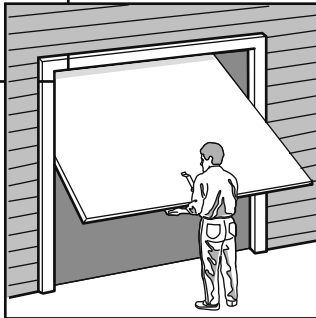
Before you begin:

- 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

! 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.

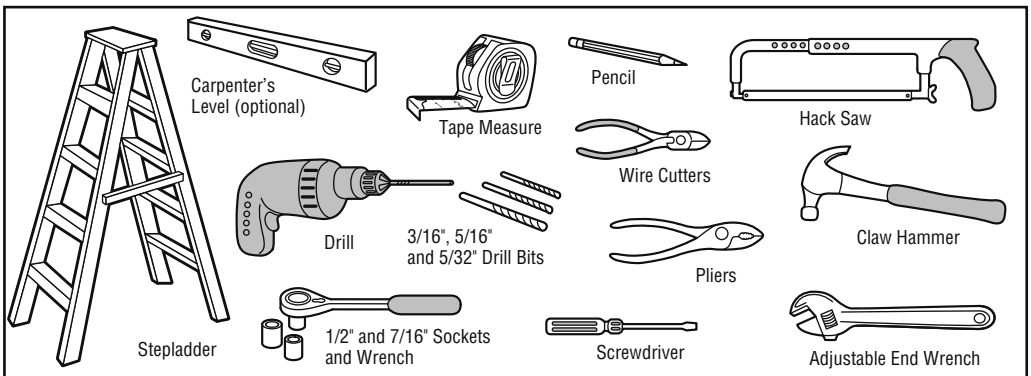
CAUTION

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.

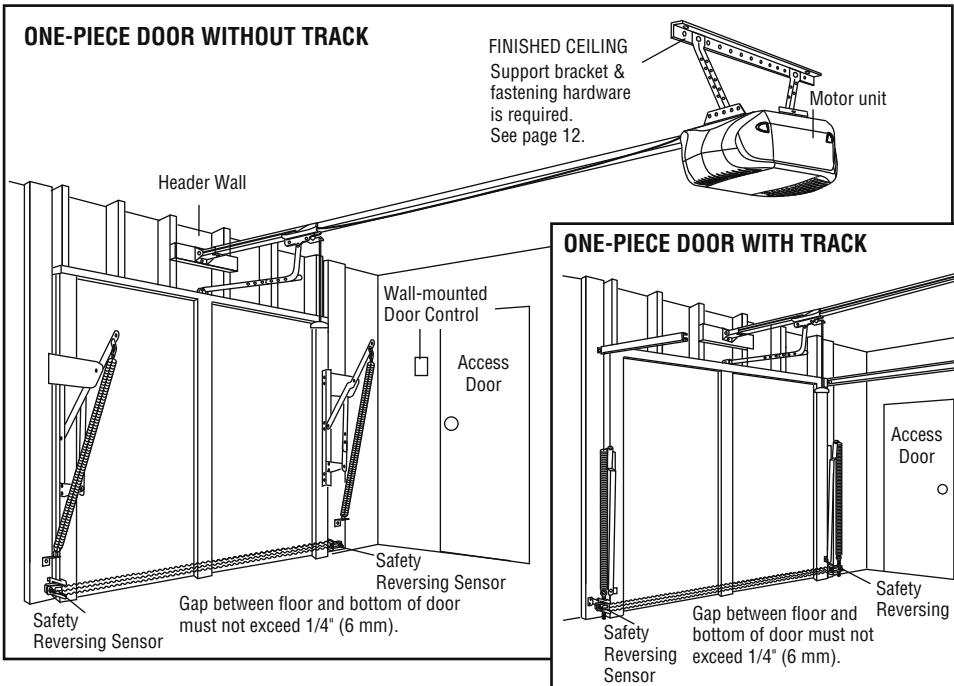
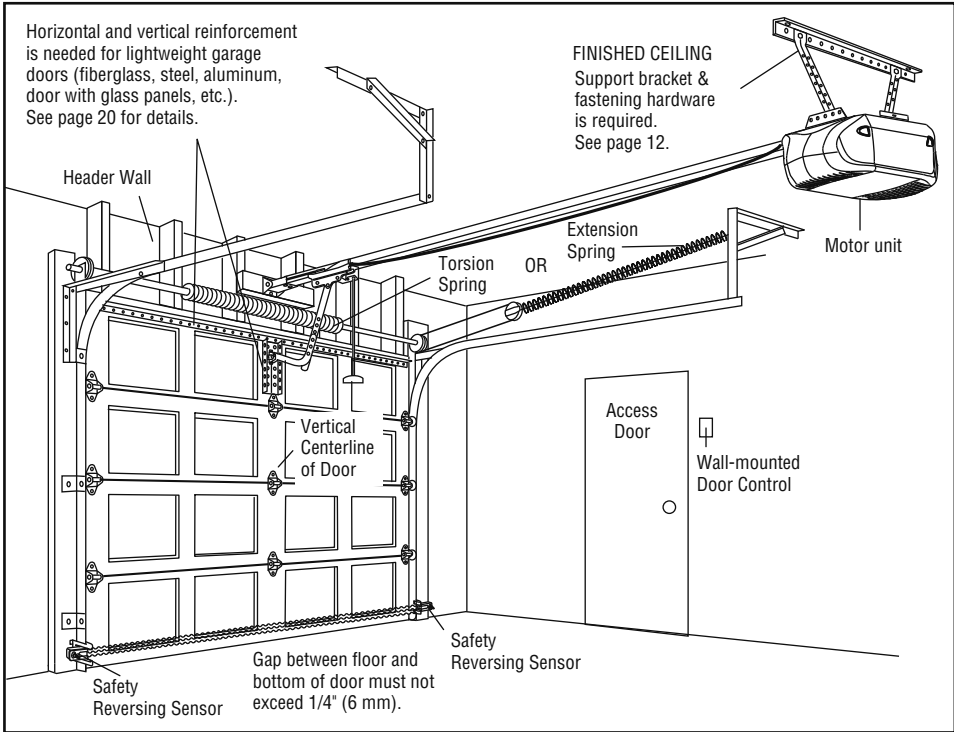
Tools needed

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



Planning

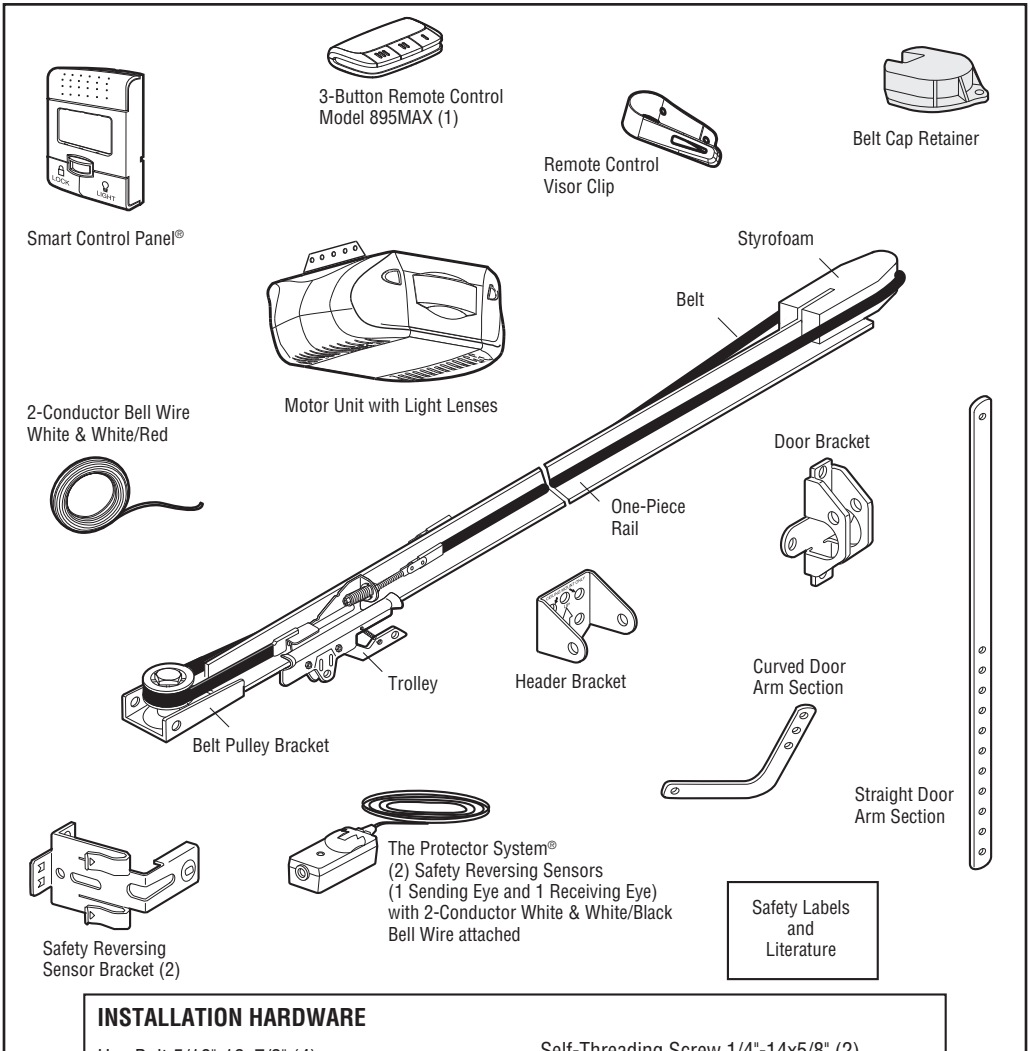
Identify the type and height of your garage door. Survey your garage area to see if any of the conditions below apply to your installation. Additional materials may be required. You may find it helpful to refer back to this page and the accompanying illustrations as you proceed with the installation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



Carton Inventory

Your garage door opener is packaged in two cartons which contain 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 installation is also listed below.



INSTALLATION HARDWARE

Hex Bolt 5/16"-18x7/8" (4)

Hex Screw #8 x 3/8" (2)

Lag Screw 5/16"-9x1-5/8" (2)

Lag Screw 5/16"-18x1-7/8" (2)

Clevis Pin 5/16"x2-3/4" (1)

Clevis Pin 5/16"x1-1/4" (1)

Clevis Pin 5/16"x1" (1)

Nut 5/16"-18 (4)

Lock Washer 5/16" (4)

Screw 6ABx1-1/4" (2)

Self-Threading Screw 1/4"-14x5/8" (2)

Screw 6-32x1" (2)

Insulated Staples

Ring Fastener (3)

Drywall Anchors (2)

Rope

Handle

Carriage Bolt 1/4"-20x1/2" (2)

Wing Nut 1/4"-20 (2)

ASSEMBLY STEP 1

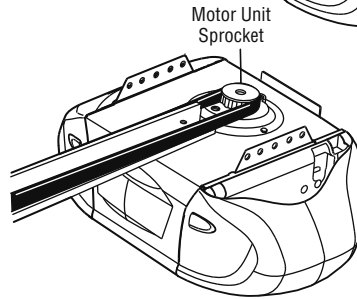
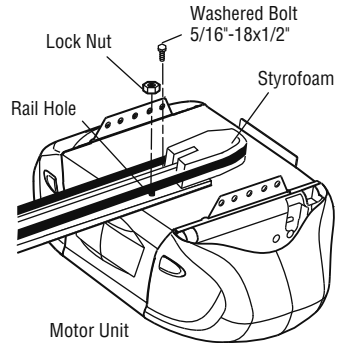
Attach the Rail to the Motor Unit

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

- Remove the bolt and lock nut from the top of the motor unit.
- Place rail onto the bolt mounted on the motor unit and align the back hole with the hole in the top of the unit.
- Fasten rail with the washered bolt and lock nut previously removed. Tighten securely. **Remember to use only these bolts/fasteners! Any other bolts/fasteners will cause serious damage to the opener.**
- Cut tape from rail, belt and styrofoam.
- REMOVE STYROFOAM.
- Position belt over the motor unit sprocket.

CAUTION

To avoid SERIOUS damage to opener, ONLY use bolts/fasteners mounted in top of motor unit.



ASSEMBLY STEP 2

Set the Belt Tension

- By hand, thread the spring trolley nut on the threaded shaft until it is finger tight against the trolley (Figure 1). Do not use any tools.
- Insert a screwdriver tip into one of the nut ring slots and brace it firmly against the trolley (Figure 2).
- Place a 7/16" open end wrench on the square end. Rotate about 1/4 turn until the spring releases and snaps the nut ring against the trolley (Figure 3).

This extends the spring for optimum belt tension.

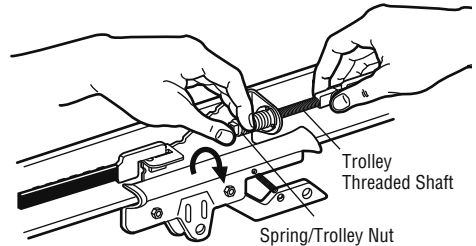


Figure 1

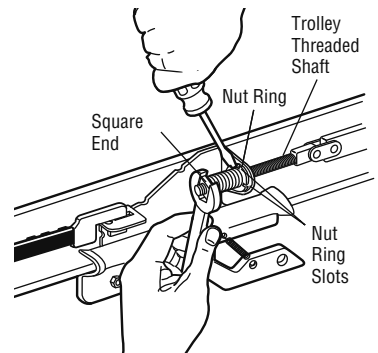


Figure 2

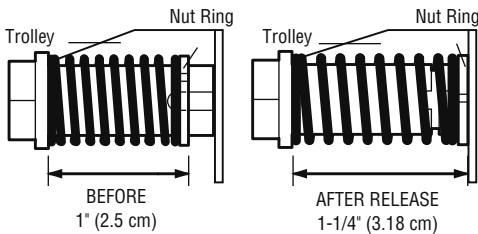


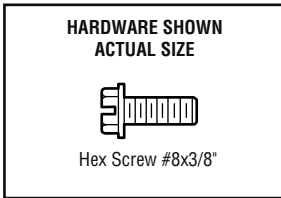
Figure 3

ASSEMBLY STEP 3

Attach the Belt Cap Retainer

- Position the belt cap retainer over the motor unit sprocket so the two holes in cap align with the two holes in mounting plate. Attach with 8x3/8" hex screws provided.

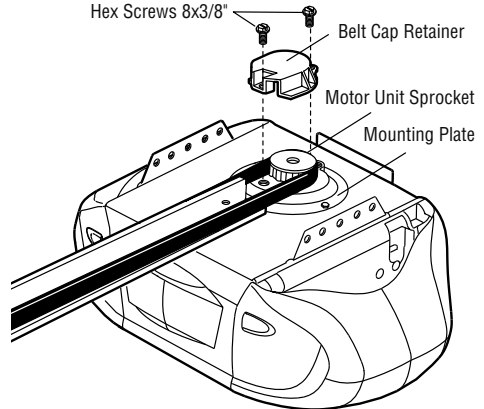
You have now finished assembling your garage door opener. Please read the following warnings before proceeding to the installation section.



WARNING

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

- **ALWAYS** keep hand clear of sprocket while operating opener.
- Securely attach sprocket cover **BEFORE** operating.



INSTALLATION

IMPORTANT INSTALLATION INSTRUCTIONS

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 the emergency release within reach, but at least 6 feet (1.83 m) above the floor and avoiding contact with vehicles to avoid accidental release.
7. **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.
12. 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

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' (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 9) when clearance is minimal. (It may be mounted on the wall upside down if necessary, to gain approximately 1/2" (1 cm)).

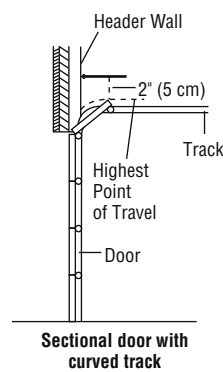
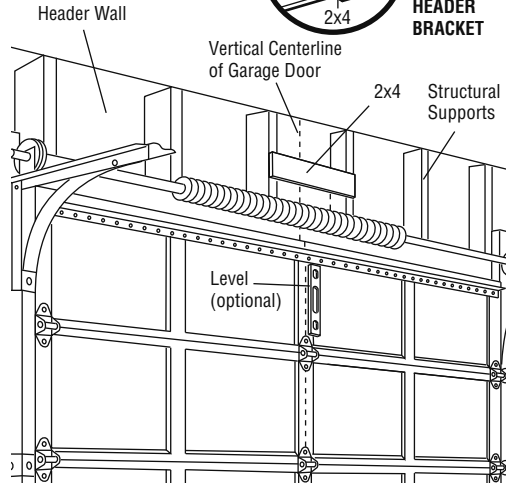
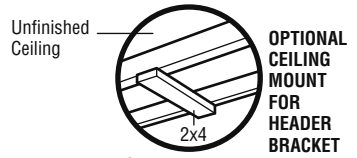
If you need to install the header bracket on a 2x4 (on wall or ceiling), use lag screws (not provided) to securely fasten the 2x4 to structural supports as shown here and on page 9.

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:

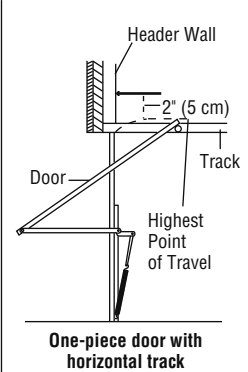
- 2" (5 cm) above the high point for sectional door and one-piece door with track.
- 8" (20 cm) above the high point for one-piece door without track.

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

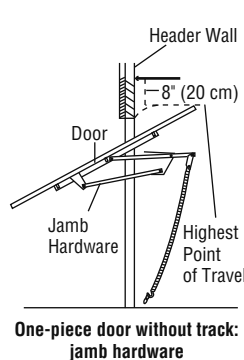
NOTE: If the total number of inches exceeds the height available in your garage, use the maximum height possible, or refer to page 9 for ceiling installation.



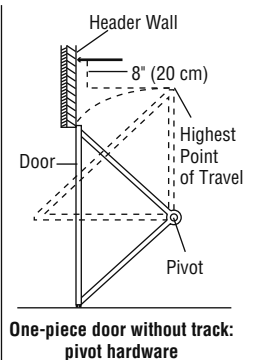
Sectional door with curved track



One-piece door with horizontal track



One-piece door without track: jamb hardware



One-piece door without track: pivot hardware

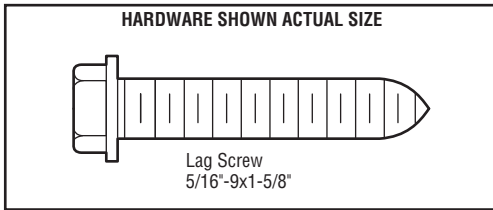
INSTALLATION STEP 2

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).**

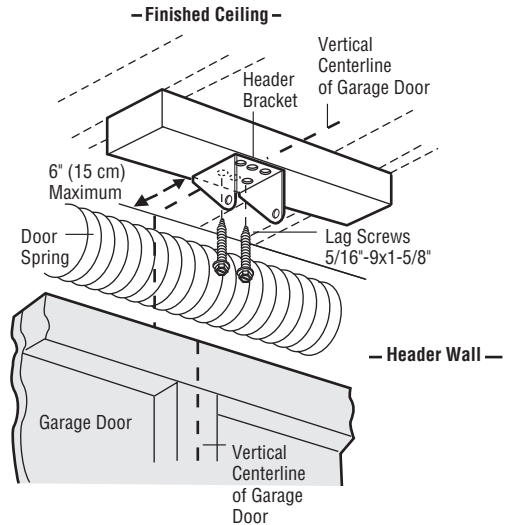
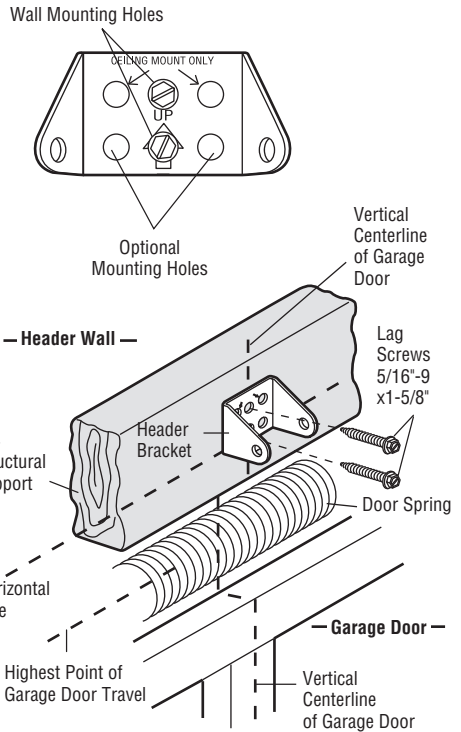
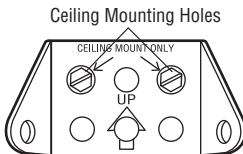
WALL HEADER BRACKET INSTALLATION

- 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 (do not use the holes designated for ceiling mount). Drill $3/16"$ pilot holes and fasten the bracket securely to a structural support with the hardware provided.



CEILING HEADER BRACKET INSTALLATION

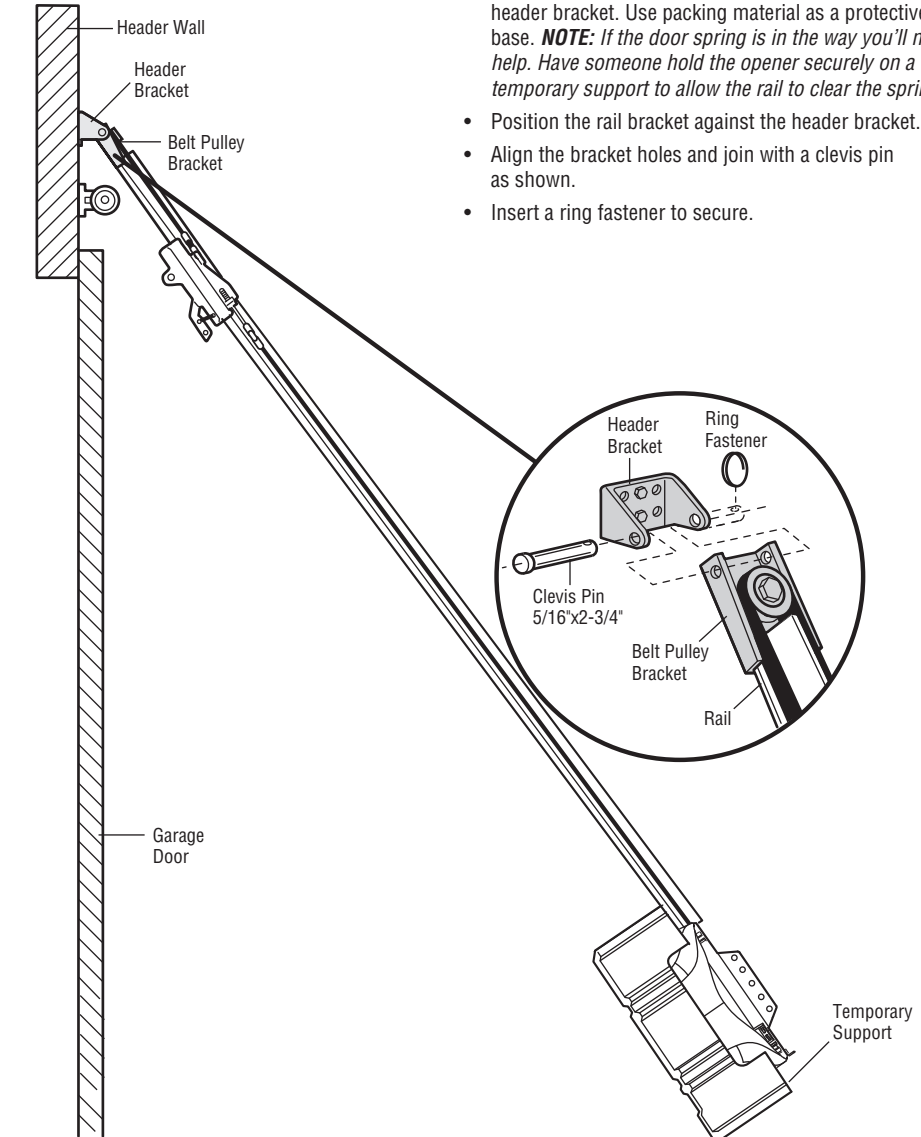
- Extend the vertical centerline onto the ceiling as shown.
- Center the bracket on the vertical mark, no more than 6" (15 cm) from the wall. Make sure the arrow is pointing toward the wall. The bracket can be mounted flush against the ceiling when clearance is minimal.
- Mark the side holes. Drill $3/16"$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



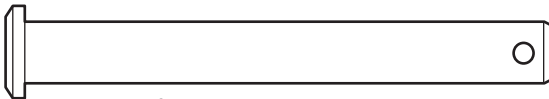
INSTALLATION STEP 3

Attach the Rail to the Header Bracket

- 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.



HARDWARE SHOWN ACTUAL SIZE



Clevis Pin
5/16"x2-3/4"



Ring Fastener

INSTALLATION STEP 4

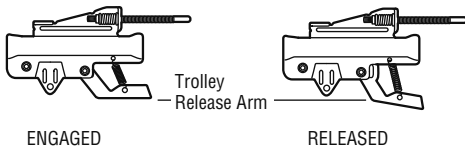
Position the Opener

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.



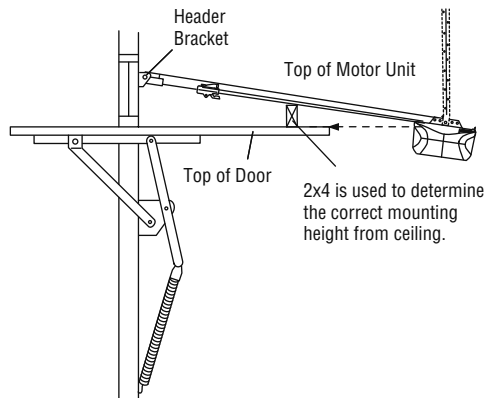
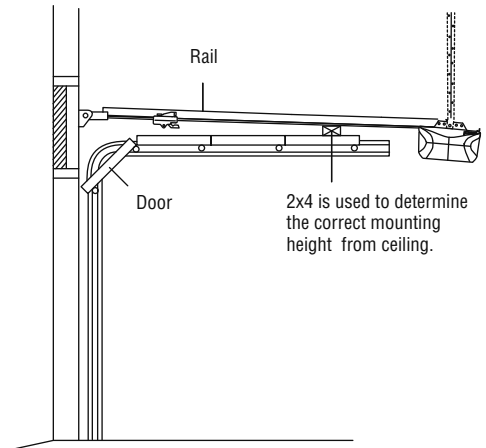
ONE-PIECE DOOR WITHOUT TRACK

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.

CAUTION

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



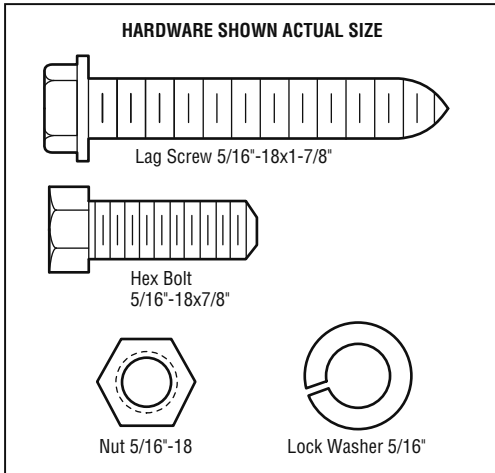
INSTALLATION STEP 5

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.

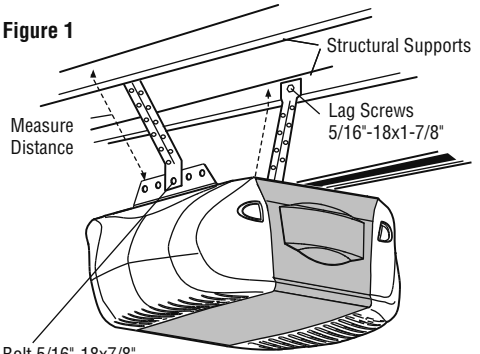
NOTE: DO NOT connect power to opener at this time.



! WARNING

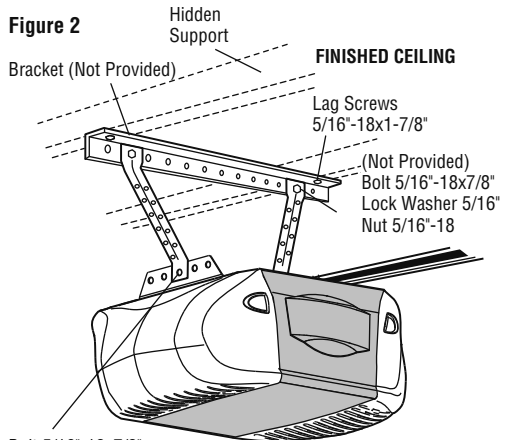
To avoid possible **SERIOUS INJURY** from a falling garage door opener, fasten it **SECURELY** to structural supports of the garage. Concrete anchors **MUST** be used if installing **ANY** brackets into masonry.

Figure 1



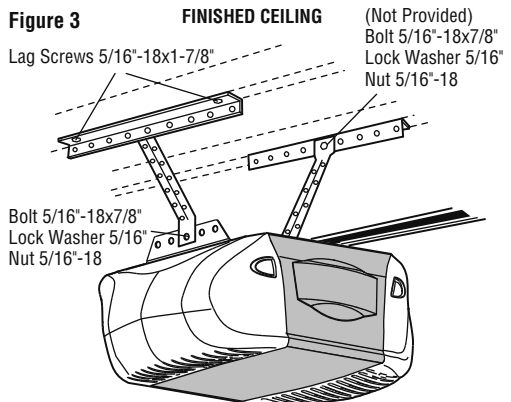
Bolt 5/16"-18x7/8"
Lock Washer 5/16"
Nut 5/16"-18

Figure 2



Bolt 5/16"-18x7/8"
Lock Washer 5/16"
Nut 5/16"-18

Figure 3



Bolt 5/16"-18x7/8"
Lock Washer 5/16"
Nut 5/16"-18

INSTALLATION STEP 6

Install the Door Control

Locate door control within sight of door, at a minimum height of 5' (1.5 m) where small children cannot reach, away from moving parts of door and door hardware. If installing into drywall, drill 5/32" holes and use the anchors provided. For pre-wired installations (as in new home construction), it may be mounted to a single gang box (Figure 1).

NOTE: The functional temperature range of the door control is between -4° F (-20° C) and 122° F (50° C). Scroll speed of display is slower at lower temperatures although the door control remains fully functional.

CAUTION: Continuous exposure of the door control to temperatures below -22° F (-30° C) may damage the LCD screen.

SPECIAL NOTE: Only one 398LM can be connected to each garage door opener. If additional wall controls are desired to operate the same garage door opener, it is recommended to use model 378LM wireless wall control as the secondary control console.

- Strip 7/16" (11 mm) 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 the W (2) and white/red wire to the R (1) (Figure 2).
- Remove push bar cover by gently prying at the lower/middle portion of the cover with a small flat-head screwdriver (Figure 1). Fasten with 6AB x 1-1/4" self-tapping screws (drywall installation) or 6-32 x 1" machine screws (into gang box) as follows:
 - Install bottom screw, allowing 1/8" (3 mm) to protrude above wall surface.
 - Position bottom of door control on screw head and slide down to secure. Adjust screw for snug fit.
 - Drill and install top screw with care to avoid cracking plastic housing. **DO NOT overtighten.**
 - Replace cover by inserting top tabs first and then snap cover in place (Figure 1).
- (For standard installations ONLY) 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.
- Strip 7/16" (11 mm) of insulation from end of bell wire. Connect bell wire to the quick-connect terminals on the motor unit: white to white and white/red to red (Figure 2). To release or insert wire, push in tab with screwdriver tip.

NOTE: If you have any trouble with the operation of the buttons, loosen the top mounting screw. **DO NOT connect 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.**

⚠️ WARNING

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.

HARDWARE SHOWN ACTUAL SIZE

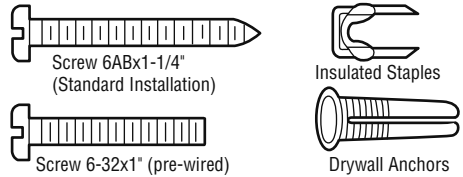


Figure 1

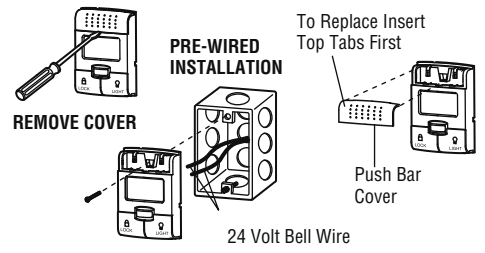
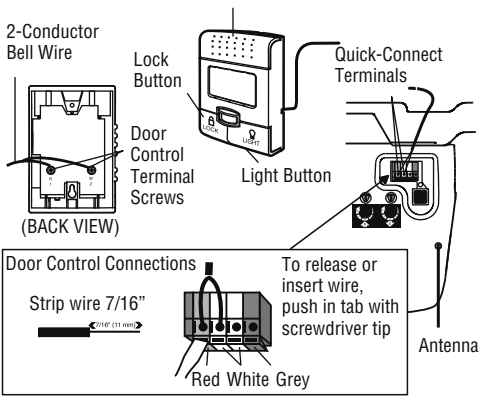


Figure 2



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 a 100 watt maximum light bulb in each socket. Light bulb size should be A19, standard neck only. The lights will turn ON and remain lit for approximately 4-1/2 minutes when power is connected. Then the lights will turn OFF.
- Reverse the procedure to close the lens.
- Use A19, standard neck garage door opener bulbs for replacement.

NOTE: Use only standard light bulbs. The use of short neck or specialty light bulbs may overheat the endpanel or light socket.

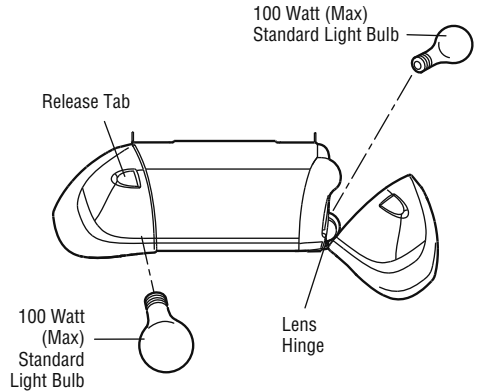
CAUTION

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

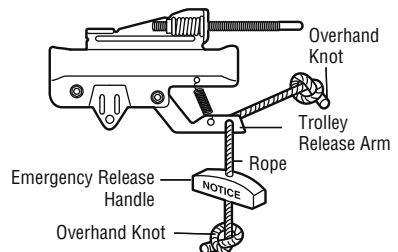
- Thread one end of the rope through the hole in the top of the red handle so "NOTICE" reads right side up as shown. Secure with an overhand knot at least 1" (2.5 cm) from the end of the rope to prevent slipping.
- Thread the other end of the rope through the hole in the release arm of the outer trolley.
- Adjust rope length so the handle is 6' (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.

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.

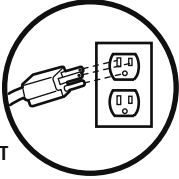


INSTALLATION STEP 9

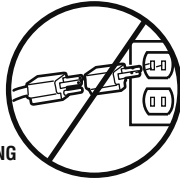
Electrical Requirements

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.



RIGHT



WRONG

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.

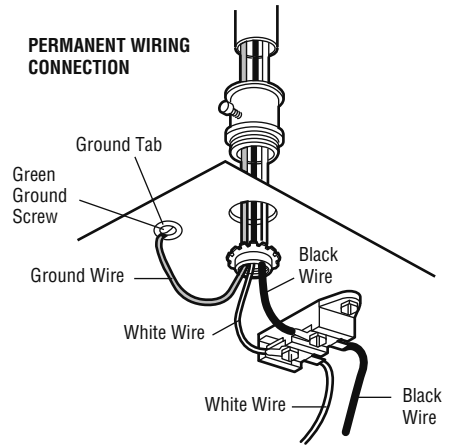
To avoid installation difficulties, do not run the opener at this time.

WARNING

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.

PERMANENT WIRING CONNECTION



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.

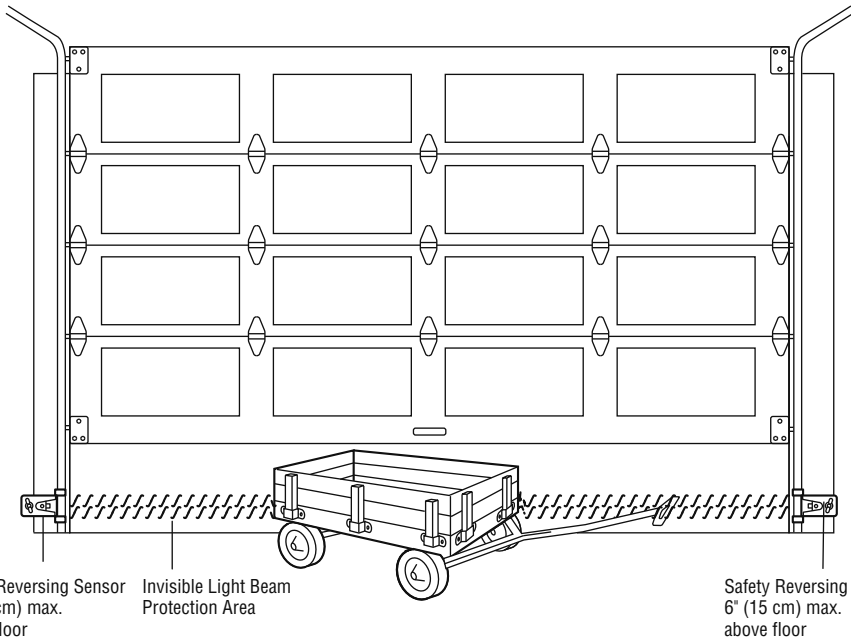
WARNING

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 (Figures 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.

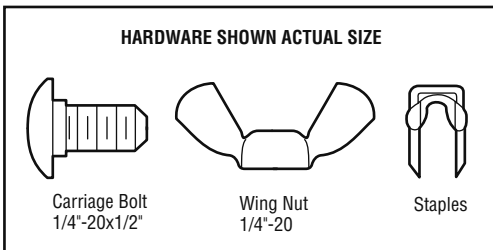


Figure 1 DOOR TRACK MOUNT (RIGHT SIDE)

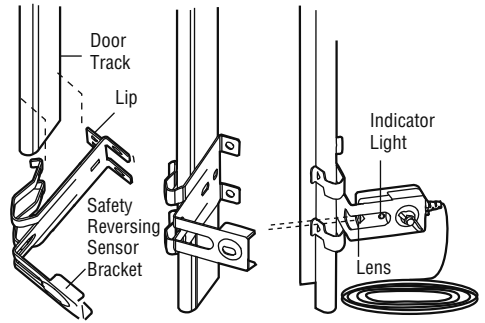


Figure 2 WALL MOUNT (RIGHT SIDE)

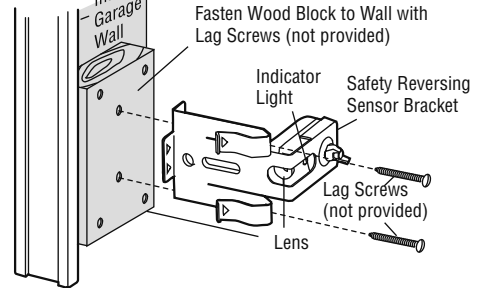


Figure 3 WALL MOUNT (RIGHT SIDE)

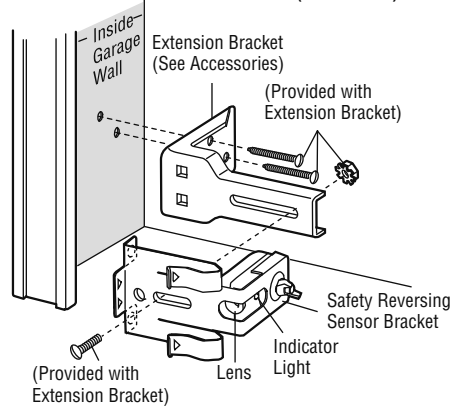
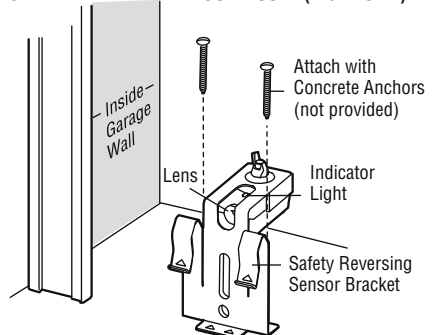


Figure 4 FLOOR MOUNT (RIGHT SIDE)



MOUNTING AND WIRING THE SAFETY REVERSING SENSORS

Mounting:

- 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.

Option A - Installation Without Pre-Wiring:

- Run the bell wire from both sensors to the garage door opener. Attach the wire to the wall and ceiling with the staples (Figure 6).

Option B - Pre-Wired Installation:

If your garage already has wires installed for the safety reversing sensors, follow the instructions below:

- Cut the end of the safety sensor wire, making sure there is enough wire to reach the pre-installed wires from the wall (Figure 7).
- Separate the safety sensor wires and strip 7/16 inch (11 mm) of insulation from each end. Choose two of the pre-installed wires and strip 7/16 inch (11 mm) of insulation from each end. Make sure that you choose the same color pre-installed wires for each sensor (Figure 8).
- Connect the pre-installed wires to the sensor wires with wire nuts making sure the colors correspond for each sensor (Figure 9).

Figure 5

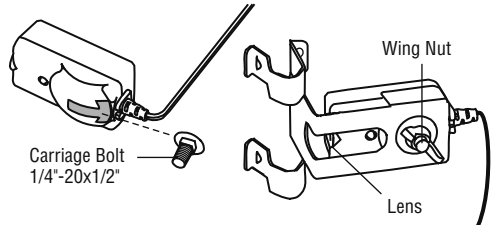


Figure 6

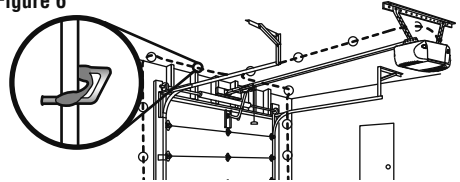


Figure 7

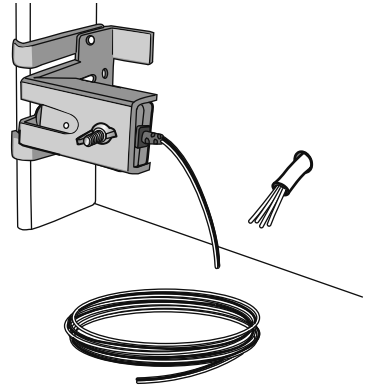


Figure 8

Safety Reversing Sensor Wires

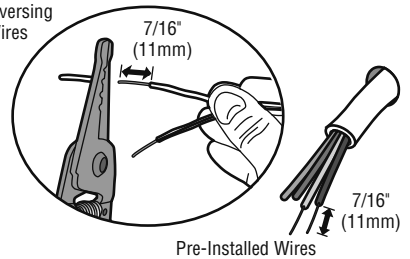
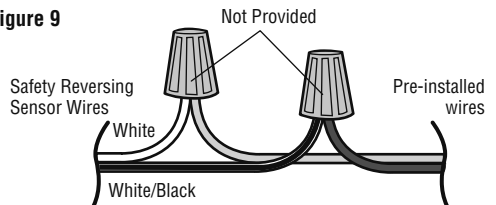
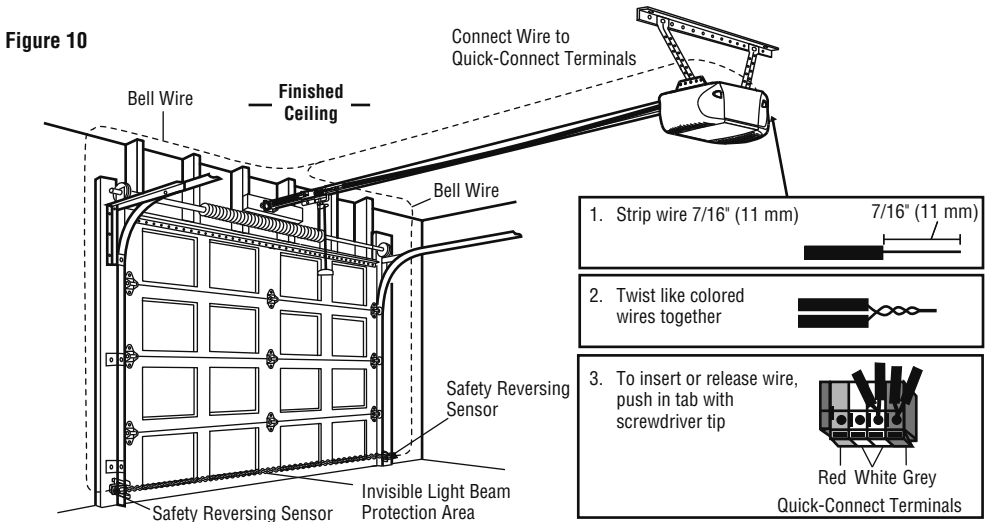


Figure 9



Connect to garage door opener:

- 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 quick-connect holes: white to white and white/black to grey (Figure 10).



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.

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 16.

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.
2. 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).

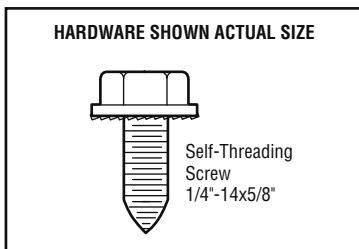
Metal, insulated or light weight factory reinforced doors:

- 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.

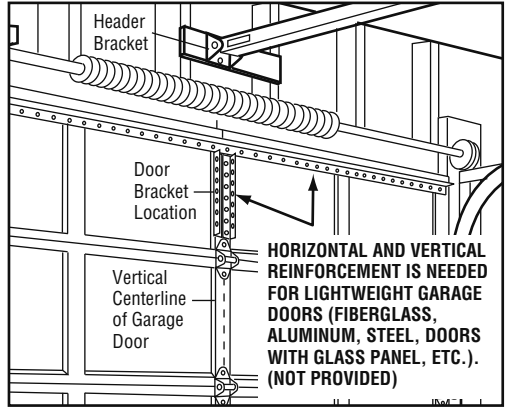


Figure 1

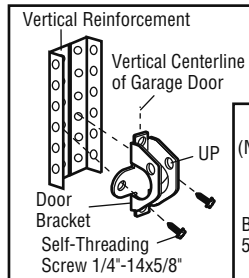


Figure 2A

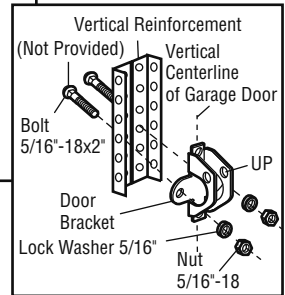


Figure 2B

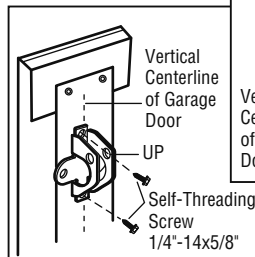


Figure 3

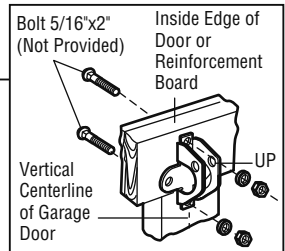


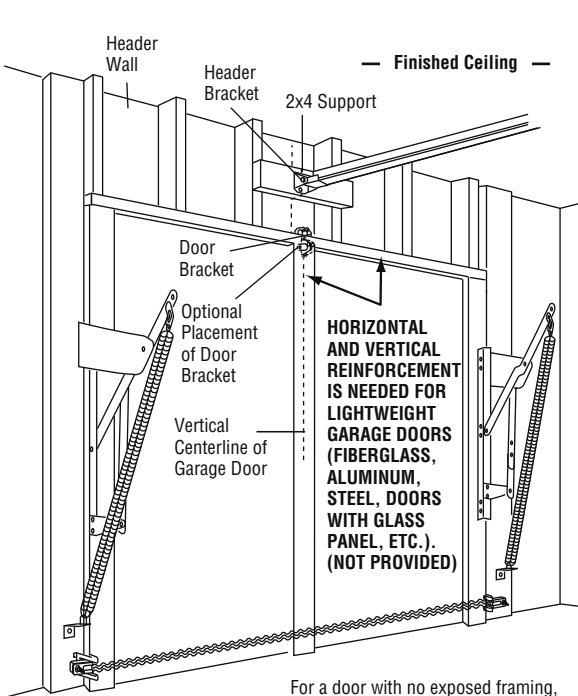
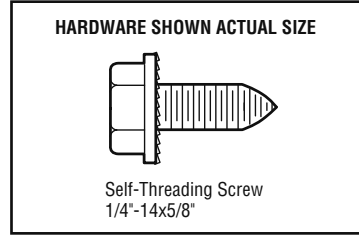
Figure 4

ONE-PIECE DOORS

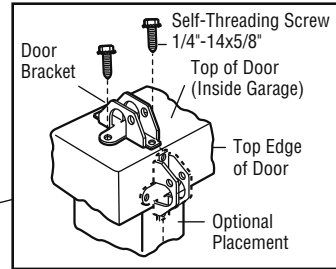
Please read and comply with the warnings and reinforcement instructions on the previous page. They apply to one-piece doors also.

- 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.

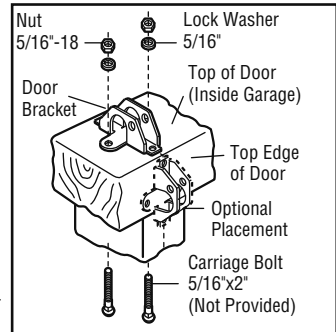
NOTE: The door bracket may be installed on the top edge of the door if required for your installation (Refer to the dotted line optional placement drawing).



For a door with no exposed framing, or for the optional installation, use lag screws 5/16"x1-1/2" (Not Provided) to fasten door bracket.



METAL DOOR



WOOD DOOR

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 door) about 2" (5 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.

IMPORTANT: The groove on the straight door arm **MUST** face away from the curved door arm (Figure 4).

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 24. Trolley will re-engage automatically when opener is operated.

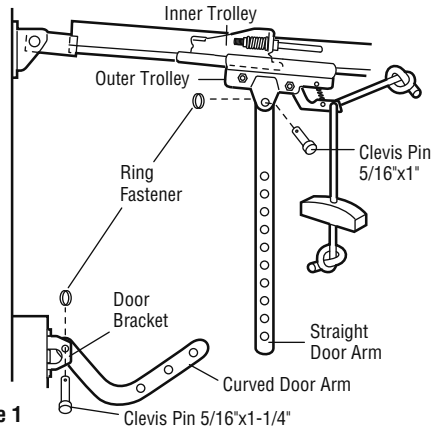


Figure 1

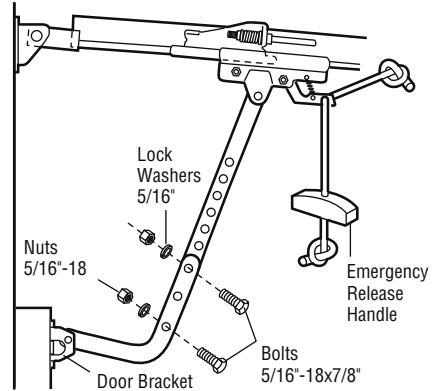


Figure 2

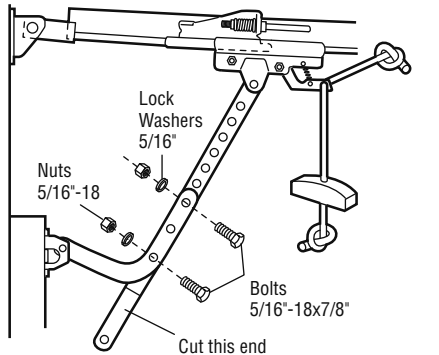


Figure 3

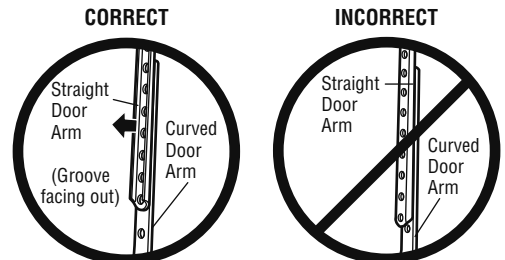
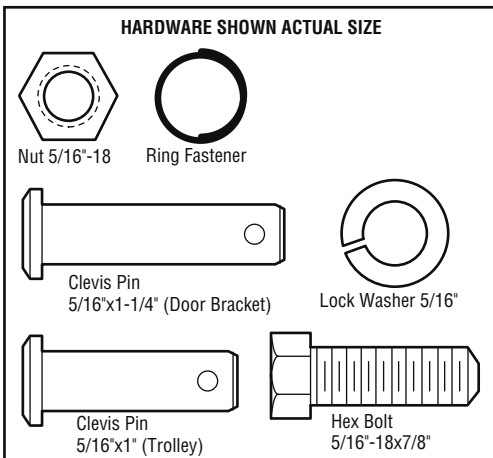


Figure 4

ALL ONE-PIECE DOORS

1. Assemble the door arm, Figure 5:

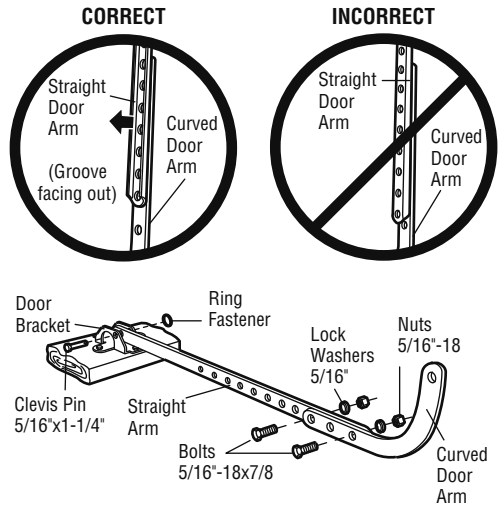
IMPORTANT: The groove on the straight door arm **MUST** face away from the curved door arm (Figure 5).

- 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 6:

- 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 24. 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 3" (7.5 cm) of trolley travel.
- **Closed door adjustment: decrease DOWN travel limit**
 - Turn the DOWN limit adjustment screw clockwise 4 complete turns.

Figure 5



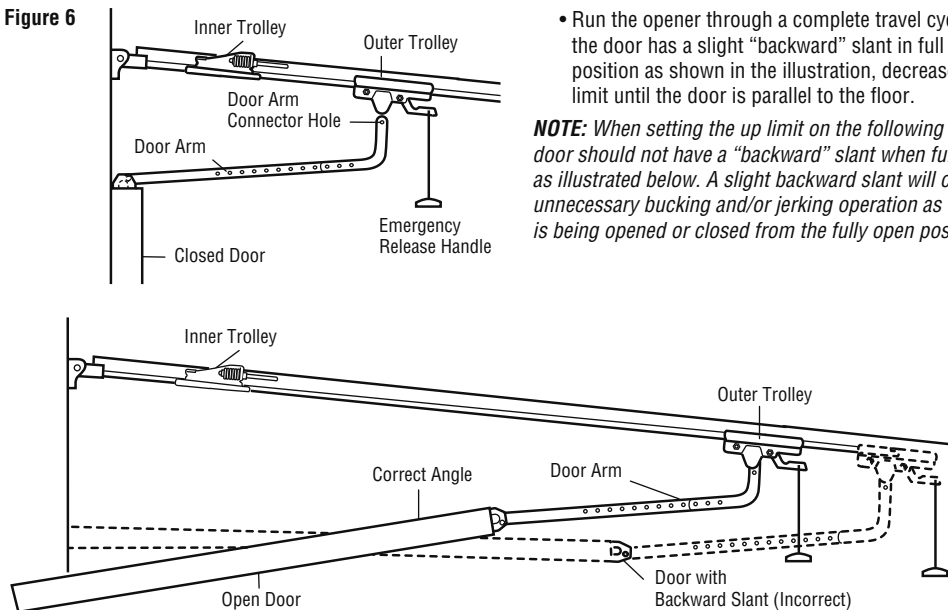
- Press the door control push button. The trolley will travel to the fully closed position.
- Manually close the door and lift the door arm to the trolley. The arm should touch the trolley just ahead of the door arm connector hole. Refer to the fully closed trolley/door arm positions in the illustration. If the arm is behind the connector hole, adjust the limit further. One full turn equals 3" (7.5 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.

Figure 6



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 26).

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. 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 5 feet (1.5 m):**

Increase up travel. Turn the UP limit adjustment screw clockwise. One turn equals 3" (7.5 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 3" (7.5 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 22) 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 3" (7.5 cm) of travel.

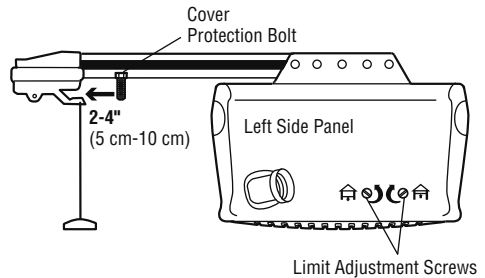
WARNING

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.



ADJUSTMENT LABEL

- **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 19.

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 26. 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.*

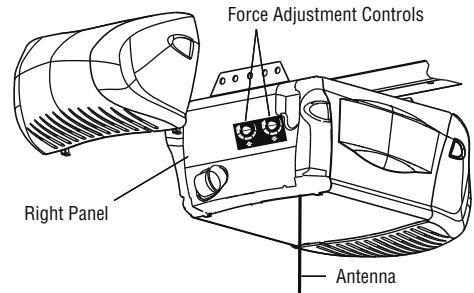
2. Test the UP (open) force

- 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.

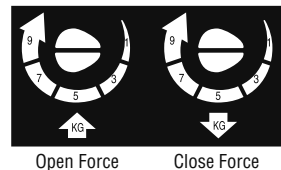
! WARNING

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



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 22.

- 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 1" (2.5 cm), and the opener lights will flash.

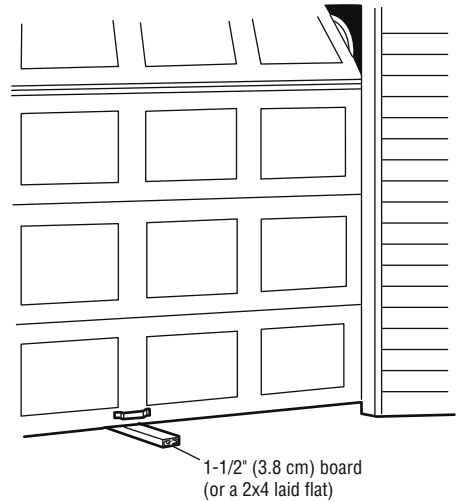
The garage door opener will not close from a remote if the indicator light in either sensor is off (alerting you to the fact that the sensor is misaligned or obstructed).

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

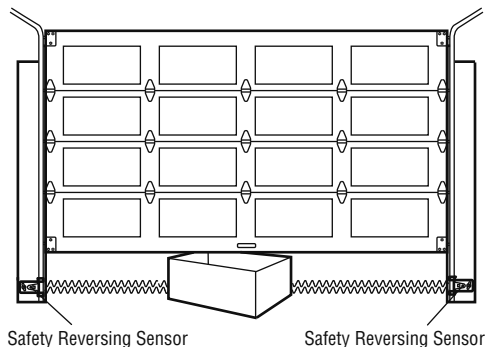
Without a properly installed safety reversal system, persons (particularly small children) could be **SERIOUSLY INJURED** or **KILLED** by a closing garage door.

- 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.



! 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

WARNING

To reduce the risk of SEVERE INJURY or DEATH:

1. READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS.
2. 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 and away from people and objects until completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
5. NO ONE SHOULD GO UNDER A STOPPED, PARTIALLY OPEN DOOR.
6. If possible, use emergency release handle to disengage trolley ONLY when garage door is CLOSED. Use caution when using this release with the door open. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly and increasing the risk of SEVERE INJURY or DEATH.
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.
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.
11. 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. Failure to adjust the garage door opener properly increases the risk of SEVERE INJURY or DEATH.
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.**

Using Your Garage Door Opener

Your Security+® opener and hand-held remote control have been factory-set to a matching code which changes with each use, randomly accessing over 100 billion new codes. Your opener will operate with up to eight Security+® remote controls and one Security+® Keyless Entry System. If you purchase a new remote, or if you wish to deactivate any remote, follow 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 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 lights 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.

They will turn off automatically after 4-1/2 minutes or provide constant light when the Light feature on the Smart Control Panel® is activated. Bulb size is A19. Bulb power is 100 watts maximum.

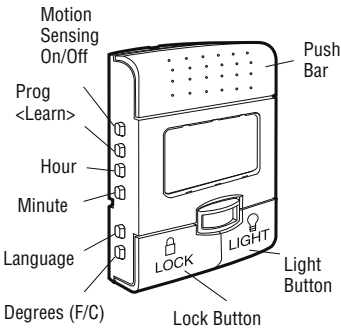
Security+® light feature: Lights will also turn on when someone walks through the open garage door. With an Smart Control Panel®, this feature may be turned off as follows: With the opener lights off, press and hold the light button for 10 seconds, until the light goes on, then off again. To restore this feature, start with the opener lights on, then press and hold the light button for 10 seconds until the light goes off, then on again.

Using the Wall-Mounted Door Control

THE SMART CONTROL PANEL®

Press the push bar 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.

This door control contains a motion sensing detector that will automatically turn on the light when it detects a person entering the garage.



Light Feature

Press the Light button to turn the opener light on or off. It will not control the opener lights when the door is in motion. If you turn it on and then activate the opener, the light will remain on for 4-1/2 minutes. Press again to turn it off sooner. The 4-1/2 minute interval can be changed to 1-1/2, 2-1/2, or 3-1/2 minutes as follows: Press and hold the Lock button until the light blinks (about 10 seconds). A single blink indicates that the timer is reset to 1-1/2 minutes. Repeat the procedure and the light will blink twice, resetting the timer to 2-1/2 minutes. Repeat again for a 3-1/2 minute interval, etc., up to a maximum of four blinks and 4-1/2 minutes.

When using the opener lights as working lights, we recommend that you first disable the motion sensor. See *Automatic Light Feature*, below.

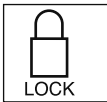


Motion Sensing (Automatic Light Feature):

The opener light will turn on automatically when a person enters the garage. When a person walks in front of the door control, the light will come on for five minutes, then shut off. This feature works by detecting body heat.

To disable this feature, push the motion sensing button on the side of the door control.

We recommend that you disable the motion sensor when using the opener lights as working lights. Otherwise, they will turn off automatically if you are working beyond the sensors range.



Lock Feature

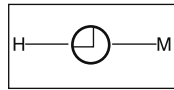
Designed to prevent operation of the door from hand-held remote controls. However, the door will open and close from the Door Control, the Outdoor Key Switch and the Keyless Entry Accessories.

To activate, press and hold the Lock button for 2 seconds.

To turn off, press and hold the Lock button again for 2 seconds. The Lock feature will also turn off whenever the "learn" button on the motor unit panel is activated.

(PROG) Learn Feature

The door control is equipped with a PROG <LEARN> button to assist in learning remote controls to the unit. Press the PROG <LEARN> button once to initiate LEARN mode and the display will show 'Learn Remote Control - Press Learn Button Again to Confirm'. Press the PROG <LEARN> button a second time and the display will show 'Learn Mode - Press Remote Control Button to Learn Remote.' Press the button of the remote control to be learned and the worklight will blink to confirm the remote control has been learned.

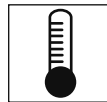


Hour & Minute Feature

Press or hold either of these side buttons to increment the hour or minute displayed on the LCD display.

(LANG) Language Feature

Press this side button to toggle between the three languages - English, French and Spanish.



Degrees F/C Feature

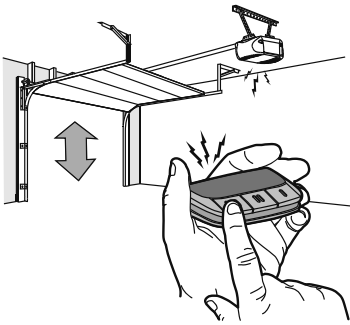
Press this side button to toggle the temperature units between Fahrenheit and Celsius.

Display Contrast Adjustment

Press and hold the light button then push the hour button to increase the contrast or the minute button to decrease the contrast.

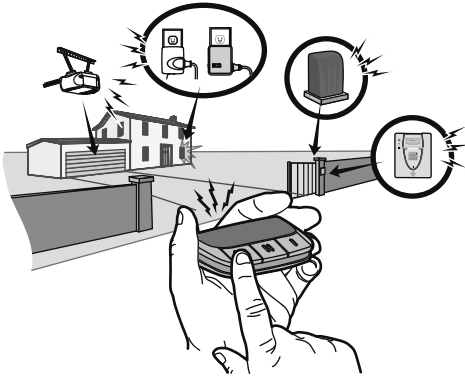
Using the Remote Control

Press and hold the button down until the door or gate starts to move. The remote control will operate from up to 3 car lengths away on typical installations. Installations and conditions vary, contact an installing dealer for more information.



3-BUTTON REMOTE CONTROLS

Additional buttons on the remote control can be programmed to operate up to 3 devices such as additional garage door openers, light controls, gate operators or access control systems.



TO CONTROL THE OPENER LIGHTS

Additional buttons on the remote control can be programmed to operate the garage door opener lights without opening the door.

1. *With the door closed*, press and hold the remote button that you want to control the light.
2. Press and hold the Light button on the Smart Control Panel®.
3. Press and hold the Lock button on the Smart Control Panel®.
4. After the opener lights flash, release all buttons.

Test by pressing the remote push button. The opener lights should turn on or off but the door should not move.

THE REMOTE CONTROL BATTERY

WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

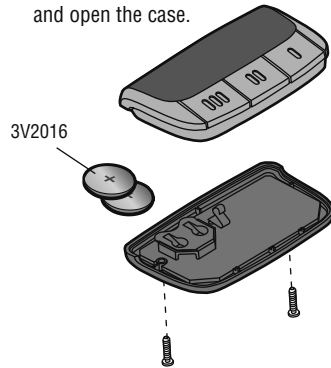
- NEVER allow small children near batteries.
- If battery is swallowed, immediately notify doctor.

To reduce risk of fire, explosion or chemical burn:

- Replace **ONLY** with 3V2016 coin batteries.
- **DO NOT** recharge, disassemble, heat above 100° C (212° F) or incinerate.

The LED(s) on your remote control will stop flashing when the battery is low and needs to be replaced. To replace battery, open the case as shown. Insert battery positive side up (+). Replace the battery with only 3V2016 coin cell batteries. Dispose of old battery properly.

Remove the two screws and open the case.



NOTICE: To comply with FCC and or Industry Canada rules (IC), 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.

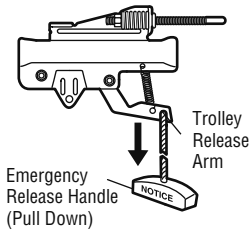
To Open the Door Manually

WARNING

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

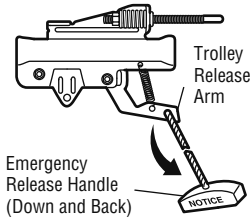
- If possible, use emergency release handle to disengage trolley **ONLY** when garage door is **CLOSED**. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- **NEVER** use emergency release handle unless garage doorway is clear of persons and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

The door should be fully closed if possible. Pull down on the emergency release handle and lift the door manually. To reconnect the door to the opener, press the door control push bar.



The *lockout feature* prevents the trolley from reconnecting automatically. Pull the emergency release handle down and back (toward the opener). The door can then be raised and lowered manually as often as necessary. To disengage the lockout feature, pull the handle straight down. The trolley will reconnect on the next UP or DOWN operation, either manually or by using the door control or remote.

MANUAL DISCONNECT POSITION



LOCKOUT POSITION

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.

Pages 24 and 25 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 26) after any adjustment of limits or force.

FORCE CONTROLS



LIMIT CONTROLS



MAINTENANCE SCHEDULE

Every Month

- Manually operate door. If it is unbalanced or binding, call a trained door systems technician.
- Check to be sure door opens and closes fully. Adjust limits and/or force if necessary. (See pages 24 and 25.)
- Repeat the safety reverse test. Make any necessary adjustments. (See Adjustment Step 3.)

Every Year

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

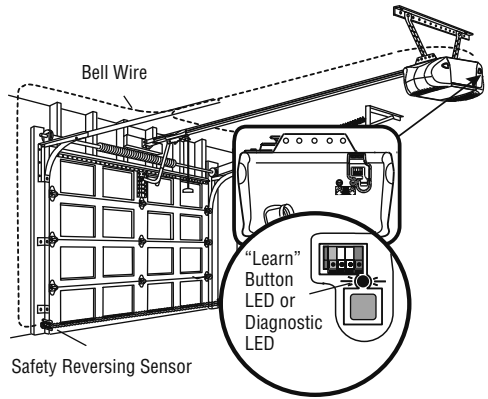
Every Three to Four Years

- Use a rag to wipe away the existing grease from the garage door opener rail. Reapply a small layer of white lithium grease to the rail.

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:

- Verify your door control is not blinking. If it is blinking, deactivate the Lock Mode following the instructions for *Using the Wall Mounted Door Control*.
- 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.

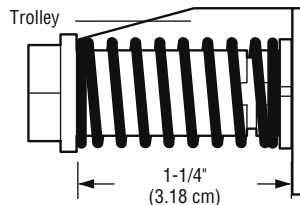
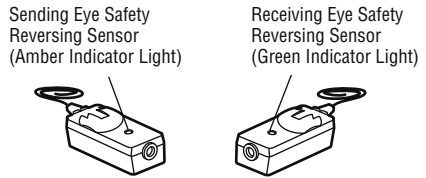
- Refer to *Adjustment Step 1, Adjust the UP and DOWN Travel Limits*. Decrease down travel by turning down limit adjustment screw clockwise.

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

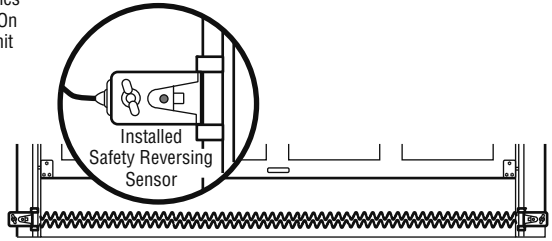
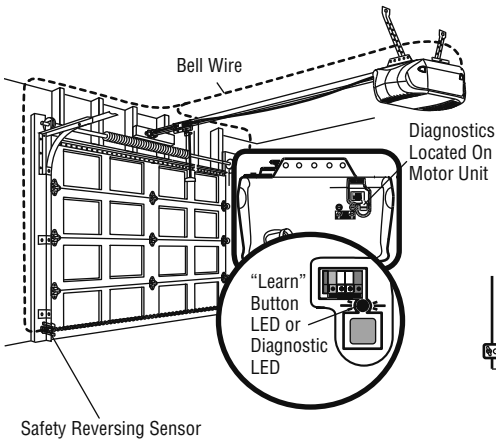
- The garage door opener is equipped with a security light feature. This feature activates the light on when the safety sensor beam has been obstructed. Refer to Operation section; *Using the Wall Mounted Door Control, Light Feature*.

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 belt 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 until the trolley spring is approximately 1-1/4" (3.18 cm) in length.
- If the trolley does not move away from the bolt, repeat the steps above.



Your garage door opener is programmed with self-diagnostic capabilities. The "Learn" button/diagnostic LED will flash a number of times then pause signifying it has found a potential issue. Consult Diagnostic Chart below.

Diagnostic Chart

1 FLASH

Safety reversing sensors wire open (broken or disconnected).

OR

2 FLASHES

Safety reversing sensors wire shorted or black/white wire reversed.

3 FLASHES

Door control or wire shorted.

4 FLASHES

Safety reversing sensors slightly misaligned (dim or flashing LED).

5 FLASHES

Motor overheated or possible RPM sensor failure. Unplug to reset.

6 FLASHES

Motor Circuit Failure. Replace Receiver Logic Board.

- **Symptom: One or both of the Indicator lights on the safety sensors do not glow steady.**
 - Inspect sensor wires for a short (staple in wire), correct wiring polarity (black/white wires reversed), broken or disconnected wires, replace/attach as needed.
 - Disconnect all wires from back of motor unit.
 - Remove sensors from brackets and shorten sensor wires to 1-2 ft. (30-60 cm) from back each of sensor.
 - Reattach sending eye to motor unit using shortened wires. If sending eye indicator light glows steadily, attach the receiving eye.
 - Align sensors, if the indicator lights glow replace the wires for the sensors. If the sensor indicator lights do not light, replace the safety sensors.
- **Symptom: LED is not lit on door control.**
 - Inspect door control/wires for a short (staple in wire), replace as needed.
 - Disconnect wires at door control, touch wires together. If motor unit activates, replace door control.
 - If motor unit does not activate, disconnect door control wires from motor unit. Momentarily short across red and white terminals with jumper wire. If motor unit activates, replace door control wires.
- **Symptom: Sending indicator light glows steadily, receiving indicator light is dim or flashing.**
 - Realign receiving eye sensor, clean lens and secure brackets.
 - Verify door track is firmly secured to wall and does not move.
- **Symptom: Motor has overheated; the motor unit does not operate or trolley is stuck on stop bolt = Motor unit hums briefly; RPM Sensor = Short travel 6-8" (15-20 cm).**
 - Unplug unit to reset. Try to operate motor unit, check diagnostic code.
 - If it is still flashing 5 times and motor unit moves 6-8" (15-20 cm), replace RPM sensor.
 - If motor unit doesn't operate, motor unit is overheated. Wait 30 minutes and retry. If motor unit still will not operate replace logic board.
- **Symptom: Motor unit doesn't operate.**
 - Replace logic board because motor rarely fails.

Smart Control Panel® Messages

The following messages are contained within the Smart Control Panel® and may appear during the operations of the unit:

Message

SAFETY SENSORS
CHECK ALIGNMENT,
BLOCKAGE OR
MISWIRING. SEE
OWNER'S MANUAL.

● **Meaning:** This message will appear if the Safety Reversing Sensors are out of alignment, if they are blocked or if the wiring is disconnected. To clear message from Smart Control Panel® do the following:

- Check to see that area is clear between the Safety Reversing Sensors.
- Check to see that the Safety Reversing Sensors are not misaligned.
 - Realign receiving eye sensor, clean lens and secure brackets.
- Verify door track is firmly secured to wall and does not move.
- Check to see that the Safety Reversing Sensors' wires are connected to the motor unit.
- If message has not cleared after the above checks, refer to message #2.

Message

SAFETY SENSORS
MALFUNCTION.
CHECK MISWIRING.
SEE OWNER'S
MANUAL.

● **Meaning:** This message will appear if the Safety Reversing Sensors are miswired. To clear the message, do the following:

- Inspect the safety sensor wires for a short (staple in wire), correct wiring polarity (black/white wires reversed), replace/attach as needed.
- Disconnect all wires from back of motor unit.
- Remove safety sensors from brackets and shorten sensor wires to 1-2 ft. (30-60 cm) from back of each sensor.
- Reattach sending eye to motor unit using shortened wires. If sending eye indicator light glows steadily, attach the receiving eye.
- Align sensors, if the indicator lights glow replace the wires for the sensors. If the sensor indicator lights do not light, replace the safety sensors.

Message

LEARN REMOTE CONTROL.
PRESS LEARN BUTTON TO
CONFIRM.

● **Meaning:** This message will appear when the Prog <LEARN> button has been pressed on the Smart Control Panel®. Pressing the Prog <LEARN> button again will allow the user to program an additional remote control to the opener.

Message

LEARN MODE.
PRESS REMOTE
CONTROL BUTTON TO
PROGRAM REMOTE.

● **Meaning:** This message will appear when the Prog <learn> button has been pressed a second time on the Smart Control Panel® or anytime on the opener. The opener is ready to program another remote control by simply pressing the remote control button. Once the opener has 'LEARNED' the remote control, the worklight will blink one time.

Message

LOCK MODE. REMOTE
CONTROL LOCKED OUT.
PRESS LOCK BUTTON TO
ENABLE REMOTE.

● **Meaning:** This message will appear when the 'Lock' button has been pressed and held for more than one second. This feature will disable the opener from receiving remote control signals. To exit 'LOCK' mode, press and hold the button for more than one second.

Message

ENGLISH, FRANÇAIS AND
ESPAÑOL.

● **Meaning:** This message will appear when the 'Language' button has been pressed. Pressing the button will toggle to the next language.

Message

MOTION SENSING ON, MOTION
SENSING OFF.

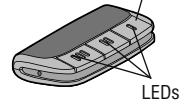
● **Meaning:** This message will appear when the 'MOTION SENSING' button is pressed. The Motion Detector will toggle on or off with each press of the button.

PROGRAMMING

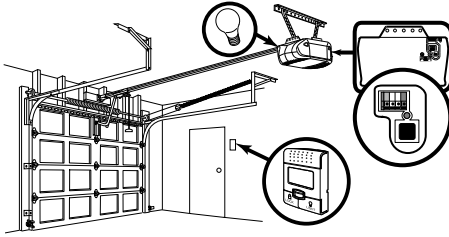
Your garage door opener has already been programmed at the factory to operate with your hand-held remote control. The door will open and close when you press the button shown.

Below are instructions for programming your garage door opener to operate with additional 895MAX remote controls. To program additional remote controls, refer to the instructions provided with the remote control.

Factory Programmed Button

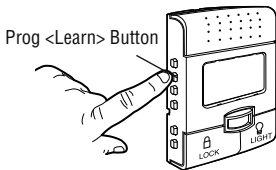


To Add or Reprogram a Remote Control (Model 895MAX)



USING THE SMART CONTROL PANEL®

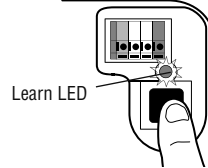
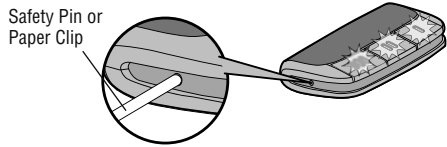
2. Press and release the Prog <Learn> button on the Smart Control Panel® **twice**. Within 30 seconds...



OR

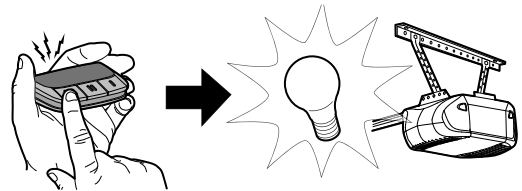
USING THE "LEARN" BUTTON

2. Press and release the Learn button on the garage door opener. The Learn LED will light. Within 30 seconds...



3. Press and release the remote control button you want to use...

Check to see if the garage door opener light bulb blinks. If not, wait for the remote control LED to light solid then **slowly** press and release the remote control button again. **Repeat** until the light bulb blinks. **DO NOT** press the button after the light bulb blinks.

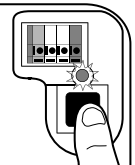


4. To exit programming mode, press any remote control button except the button that was just programmed.

To Erase All Codes From Motor Unit Memory

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.

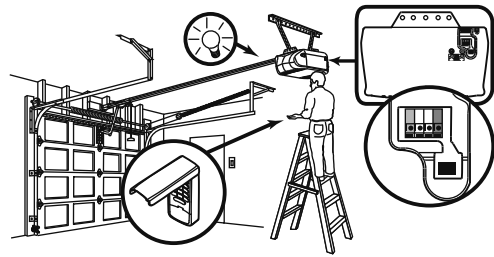


NOTICE: If this Security+® garage door opener is operated with a non-rolling code transmitter, the technical measure in the receiver of the garage door opener, which provides security against code-theft devices, will be circumvented. The owner of the copyright in the garage door opener does not authorize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

To Add, Reprogram or Change a Keyless Entry PIN

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

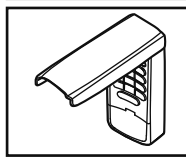
USING THE “LEARN” BUTTON



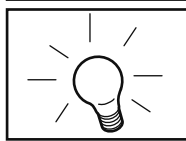
1. Press and release the “learn” button on motor unit. The learn indicator light will glow steadily for 30 seconds.



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 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.

To set a temporary PIN

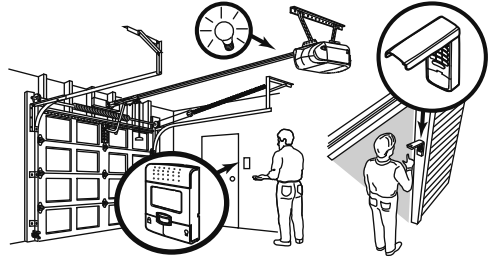
You may authorize access by visitors or service people with a temporary 4-digit PIN. After a programmed number of hours or number of accesses, this temporary PIN expires and will no longer open the door. It can be used to close the door even after it has expired. To set a temporary PIN:

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.

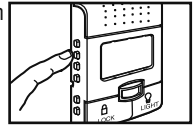
One Button Close: Opener can be closed by pressing only the ENTER button if the one button close feature has been activated. This feature has been activated at the factory. To activate or deactivate this feature press and hold buttons 1 and 9 for 10 seconds. The keypad will blink twice when the one button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

USING THE SMART CONTROL PANEL®

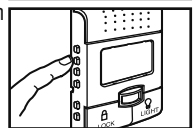


NOTE: This method requires two people if the Keyless Entry is already mounted outside the garage.

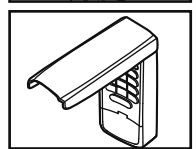
1. Press the PROG <Learn> button on the Smart Control Panel®.



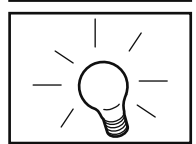
2. Press the PROG <Learn> button again to confirm Learn Mode.



3. Enter a four digit personal identification number (PIN) of your choice on the keypad. Then press enter.



4. When the motor unit lights blink, it has learned the code. If light bulbs are not installed, two clicks will be heard.



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

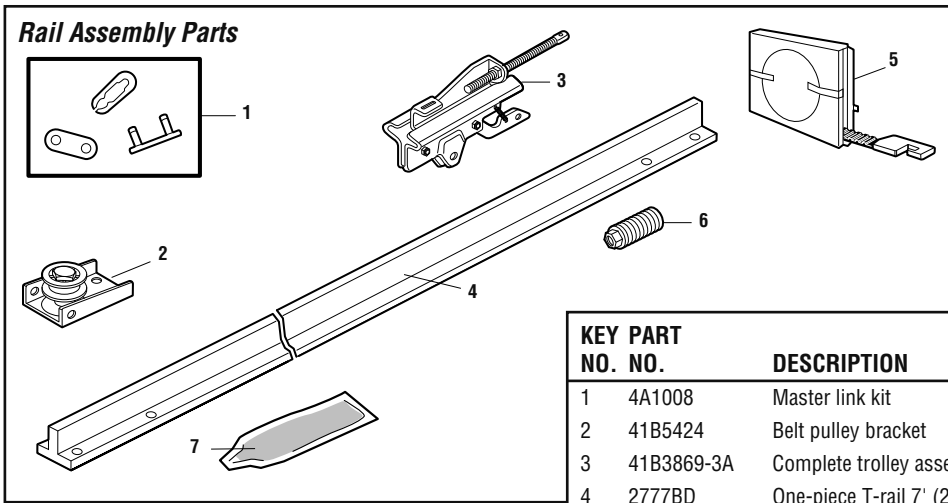
3. To set the number of **times** this temporary PIN will work, press the number of times (up to 255), then press #.

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.

REPAIR PARTS

Rail Assembly Parts

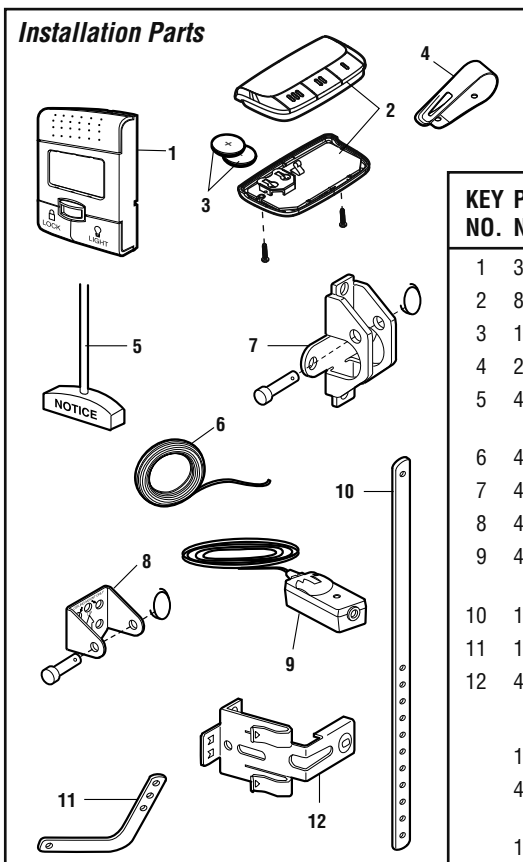


KEY PART NO. NO.

DESCRIPTION

| | | |
|---|------------|---------------------------|
| 1 | 4A1008 | Master link kit |
| 2 | 41B5424 | Belt pulley bracket |
| 3 | 41B3869-3A | Complete trolley assembly |
| 4 | 2777BD | One-piece T-rail 7' (2 m) |
| | 2778BD | Complete Rail 8' (2.4 m) |
| | 2770BD | Complete Rail 10' (3 m) |
| 5 | 41A5434-11 | Full belt assembly |
| 6 | 41B4103 | Tensioner assembly |
| 7 | 83A11-2 | Rail grease |

Installation Parts



KEY PART NO. NO.

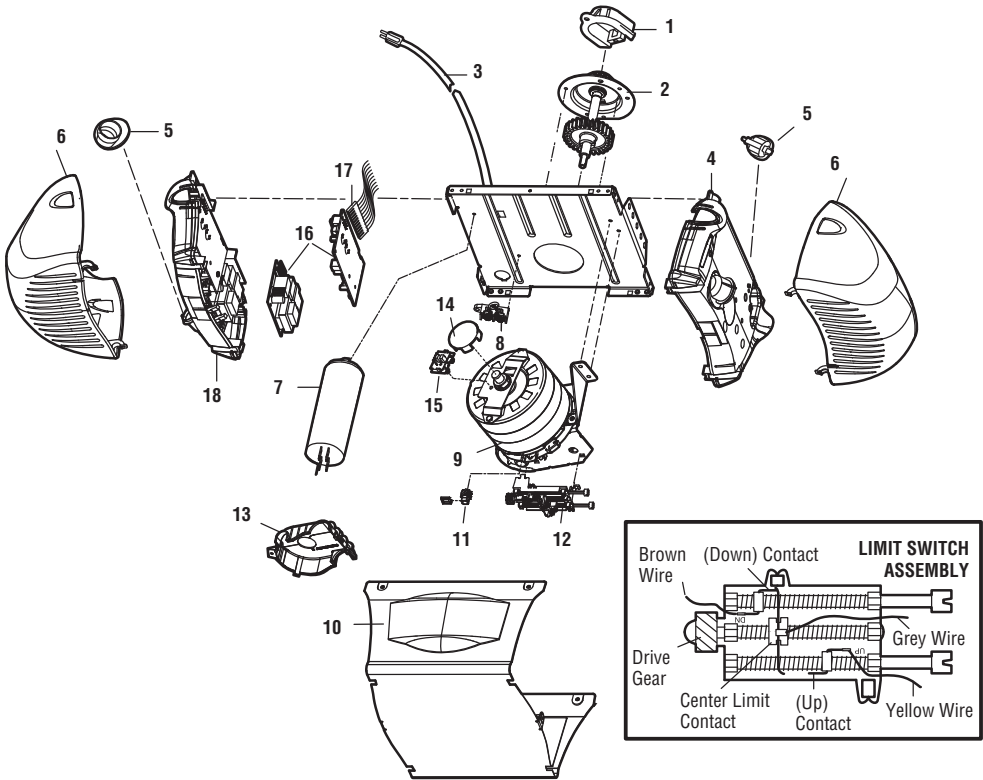
DESCRIPTION

| | | |
|----|-----------|---|
| 1 | 398LM | Smart Control Panel® |
| 2 | 895MAX | 3-Button remote control |
| 3 | 10A19 | 3V2016 Lithium battery: LED and opener |
| 4 | 29C151 | Remote control visor clip |
| 5 | 41A2828 | Emergency release rope and handle assembly |
| 6 | 41B4494-1 | 2-Conductor bell wire, white & white/red |
| 7 | 41A5047-1 | Door bracket w/clevis pin & fastener |
| 8 | 41A4353-1 | Header bracket w/clevis pin & fastener |
| 9 | 41A5034 | Safety sensor kit (receiving and sending eyes) with 3' (.9 m) 2-conductor bell wire |
| 10 | 178B34 | Straight door arm section |
| 11 | 178B35 | Curved door arm section |
| 12 | 41A5266-1 | Safety sensor brackets (2) |

NOT SHOWN

| | |
|------------|---|
| 101D173 | Push bar for door control |
| 41A2770-12 | Installation hardware bag (includes hardware listed on page 5). |
| 114A4257 | Owner's manual |
| 114A4257SP | Owner's manual - Spanish |

Motor Unit Assembly Parts



| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|------------------|---|------------------|--|
| 1 41A4371 | Belt Cap | 10 41A5633-12 | Cover |
| 2 41A4885-5 | Gear and sprocket assembly Complete with: Spring washer, thrust washer, retaining ring, bearing plate, roll pins (2), drive gear and worm gear, helical gear w/ retainer and grease | 11 41A2818 | Limit switch drive & retainer |
| 3 41B4245-1 | Line cord | 12 41D3452 | Limit switch assembly |
| 4 41A5484 | End panels w/all labels | 13 41A5532 | Gear case |
| 5 4A1344 | Light socket | 14 41A2822-1 | Interrupter cup assembly |
| 6 108D79 | Lens | 15 41C4398A | RPM sensor assembly |
| 7 30B652 | Capacitor | 16 41AC075-2S | Receiver logic board assembly Complete with: Logic board, end panel w/all labels, light socket |
| 8 41A3150 | Terminal block w/screws | 17 41C6661 | Wire harness assembly |
| 9 41D5563-1 | Universal replacement motor Complete with: Motor, worm, bracket, gear case, bearing assembly, RPM sensor | 18 41D180-1 | End panel w/all labels |
| | | | NOT SHOWN |
| | | 41A2826 | Motor shaft bearing kit |
| | | 41A2825 | Opener assembly hardware kit (includes screws not designated by a number in illustration) |

ACCESSORIES

1702LM



Outside Quick Release:

Required for a garage with NO access door. Enables homeowner to open garage door manually from outside by disengaging trolley.

41A5281



Extension Brackets:

(Optional) For safety sensor installation onto the wall or floor.

377LM



Wireless Keyless Entry with Security+® Ⓢ:

Enables homeowner to operate garage door opener from outside by entering a password on a specially 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.

395LM



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 LiftMaster Security+® remote.

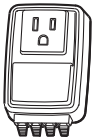
378LM



Wireless Door Control Ⓢ:

Push bar, light feature and auxiliary button. Includes battery.

990LM



Surge Protector:

The Garage Door Opener Surge Protector is designed to protect LiftMaster® garage door openers against damage from lightning and power surges.

370LM



3-Button Mini-Remote Control with Security+® Ⓢ:

With key ring and fastening strip.

915LM



Garage Door Monitor:

Security for the largest door of your home!

Tells you if your garage door is open or closed. Monitors up to 4 garage doors by adding additional sensor modules.

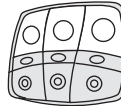
916LM



Garage Door Monitor Sensor:

Additional accessory sensor for homes with multiple garage doors.

902LM/903LM



2 & 3 Door Multi-Function Wall Control:

Ideal for homes with up to three garage doors. Combine up to three controls into one wall control panel for a neat compact appearance. Enhanced functions include Lock Feature to lock out outside radio signals while you are away from home and turn opener lights on or off from the door control.

975LM



Laser Park Assist:

Laser enables homeowners to precisely park vehicles in the garage.

895MAX



3-Button Remote Control Ⓢ:

Includes visor clip.

373LM



3-Button Security+® Remote Control Ⓢ:

Includes visor clip.

LIFTMASTER® 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.liftmaster.com

For professional installation, parts and service,
contact your local LIFTMASTER/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

LIFTMASTER® GARAGE DOOR OPENER FIVE-YEAR LIMITED WARRANTY LIFETIME MOTOR AND BELT 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 five years from the date of purchase [and that the motor and belt are free from defect in materials and/or workmanship for the lifetime of the product]. 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.

If, during the limited warranty period, this product appears to contain a defect covered by this limited warranty, call 1-800-528-9131, toll free, before dismantling this product. Then send this product, pre-paid and insured, to our service center for warranty repair. You will be advised of shipping instructions when you call. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product returned for warranty repair. Products returned to Seller for warranty repair, which upon receipt by Seller are confirmed to be defective and covered by this limited warranty, will be repaired or replaced (at Seller's sole option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory-rebuilt parts at Seller's sole option.

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