

CHAMBERLAIN®

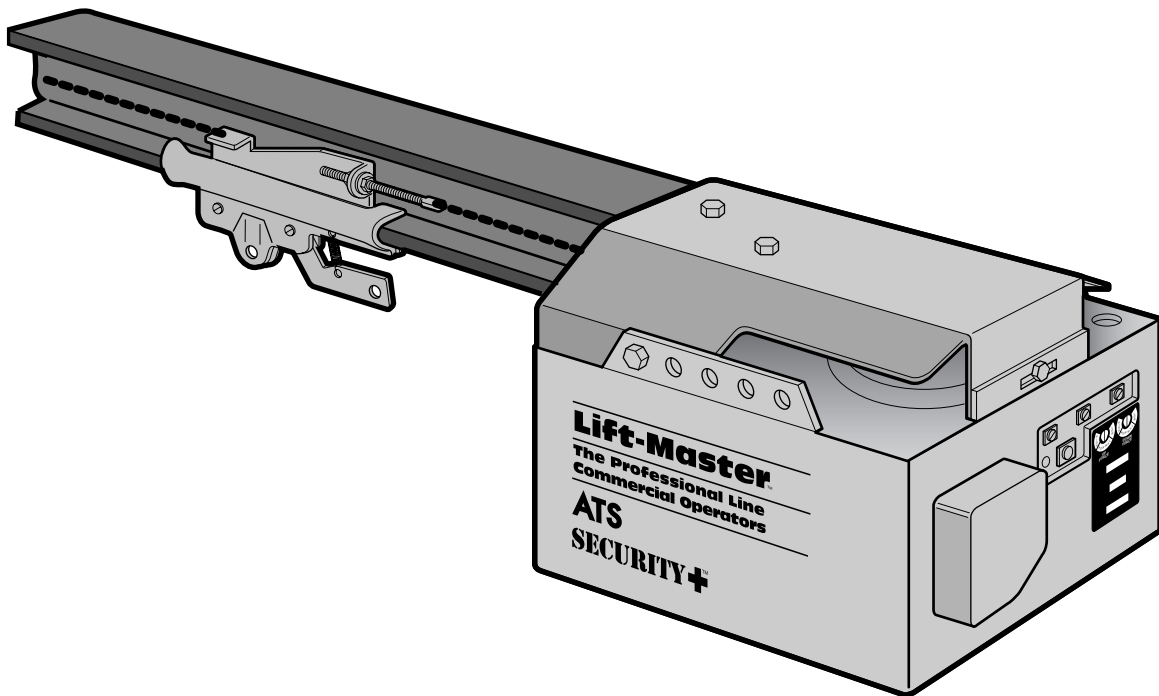
**LiftMaster®**  
**PROFESSIONAL**

The Chamberlain Group, Inc.  
845 Larch Avenue,  
Elmhurst, Illinois 60126



# MODEL ATS 211R COMMERCIAL DOOR OPENER

For Residential and Light Duty Commercial Use  
Install on Sectional Doors Only



## OWNER'S MANUAL

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

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**Start by reviewing these important safety alert symbols**

When you see these Safety Symbols on the following pages, they will alert you to the possibility of *serious injuries or death* if you do not comply with the corresponding instructions. The hazard may come from something mechanical or from electric shock. *Read the instructions carefully.*



**WARNING**  
Mechanical



**WARNING**  
Electrical

When you see this Safety Symbol 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 corresponding instructions. *Read the instructions carefully.*

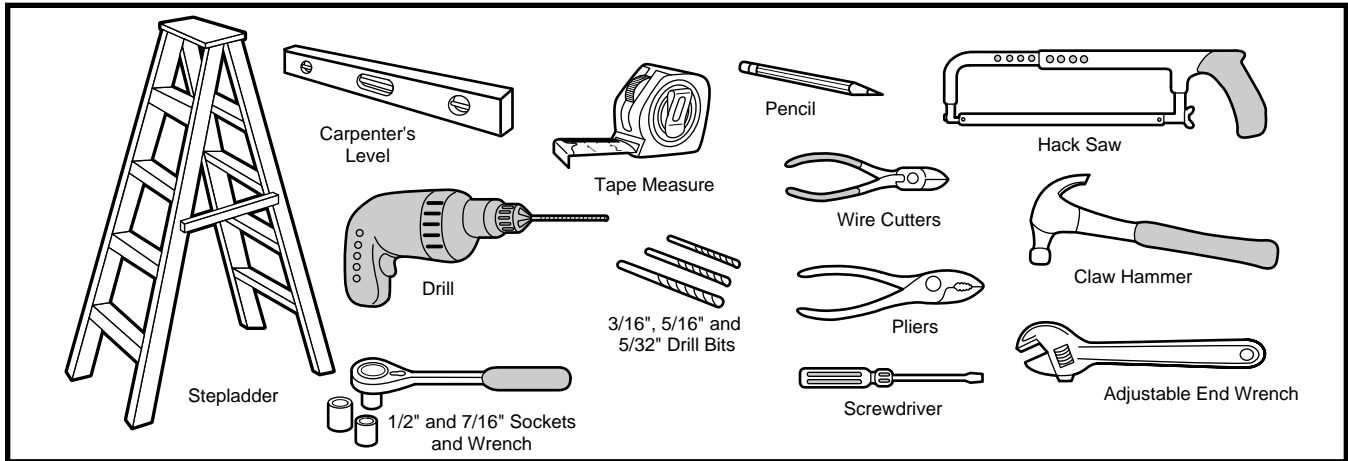


**CAUTION**

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

# You'll Need Tools

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



## WARNING

*An unbalanced garage door might not reverse when required and someone under the door could be seriously injured or killed.*

If your garage door binds, sticks or is out of balance, call for professional garage door service. *Garage doors, door springs, cables, pulleys, brackets and their hardware, are under extreme tension and can cause serious injury or death. Do not try to loosen, move or adjust them yourself!*

*Ropes left on a garage door could cause someone to become entangled and killed. Remove all ropes connected to the door before installing and operating the opener.*

*This product is for use on sectional garage doors only. Serious personal injury could result from the use of this product on one-piece garage doors.*



## CAUTION

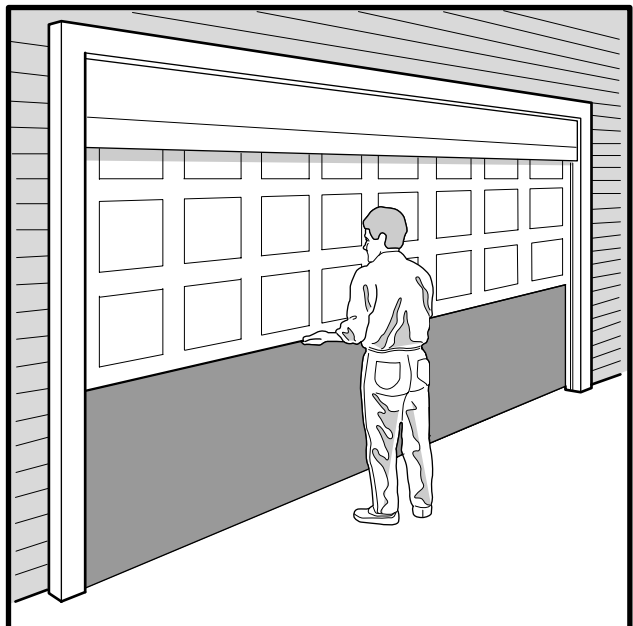
To avoid damage to the garage door and opener, disable locks before installing and operating the opener. Use a wood screw or nail to hold locks in the "open" (unlocked) position.

Operation at other than 120V 60 Hz will cause opener malfunction and damage.

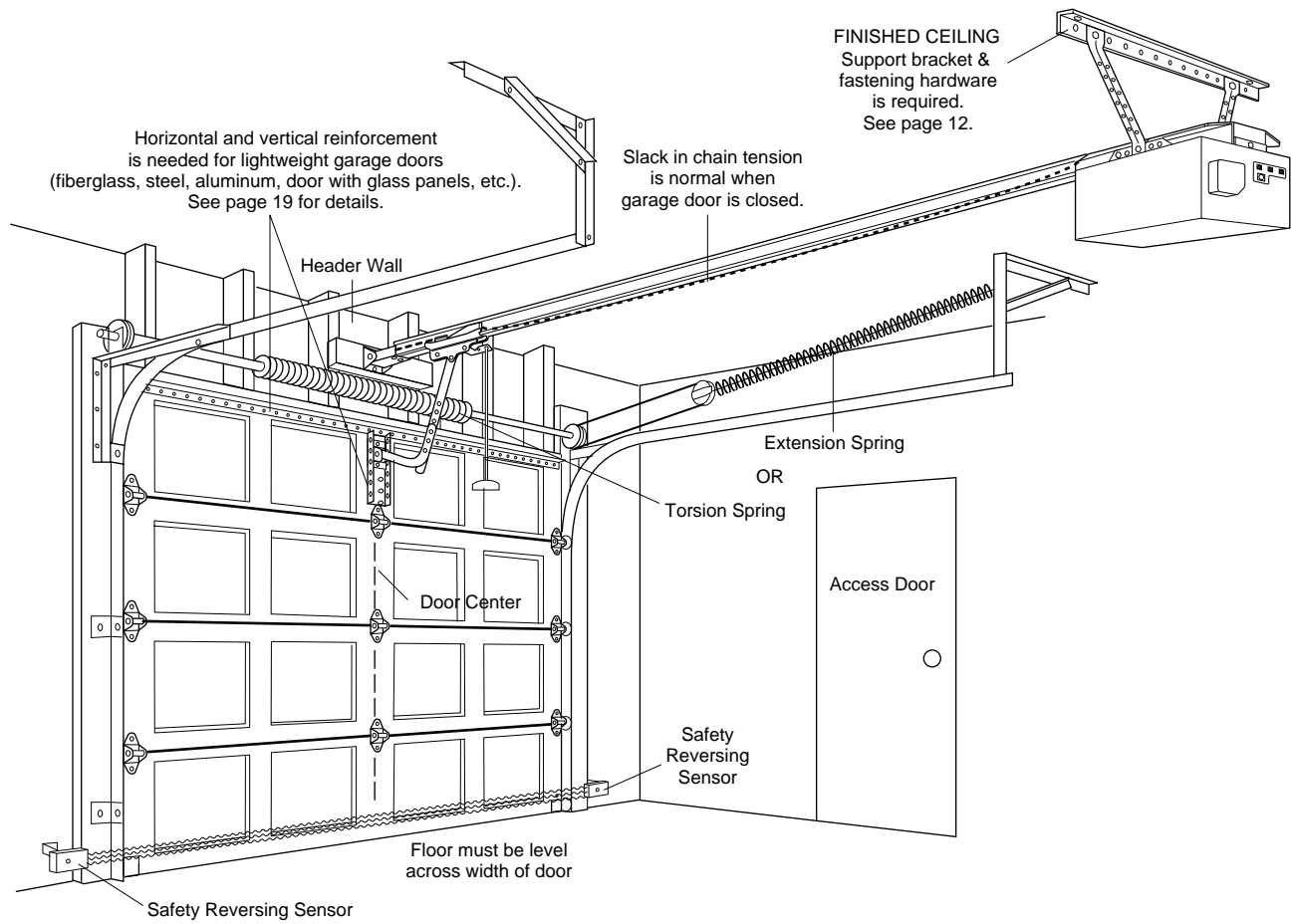
Identify the type and height of your door, any special conditions that exist, and any additional materials that may be required by referring to the lists on page 4.

**Before you begin, complete the following test to make sure your door is balanced and is not sticking or binding:**

- Lift the door about halfway as shown. Release the door. It should stay in place, supported entirely by its springs.
- Raise and lower the door to see if there is any binding or sticking.

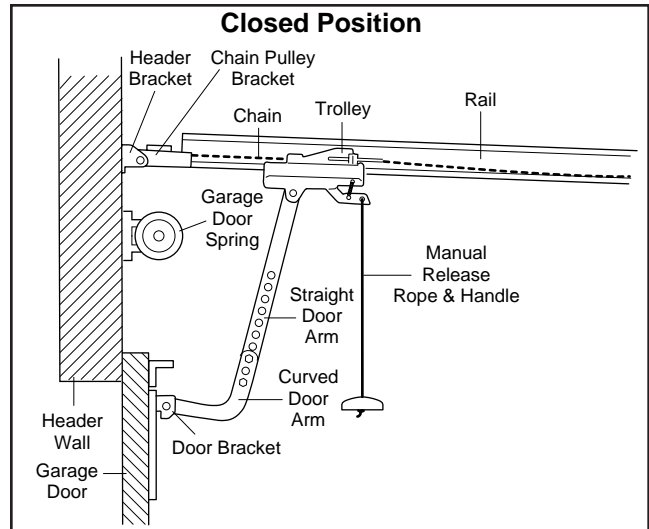


**Before you begin, survey your garage area. Do any of the following conditions apply to you?**



Based on your particular requirements, there are several installation steps which might call for materials and/or hardware not included in the carton.

- Step 1, page 8 - Look at the wall or ceiling above the garage door. The header bracket *must* be securely fastened to structural supports.
- Step 5, page 12 - Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware may be required.
- Safety reversing sensor, page 16 - Depending upon garage construction, wood blocks may need to be fastened to mounting locations before sensors are installed.
- Step 10, page 17 - Alternate floor mounting of the safety reversing sensor will require hardware not provided.
- Step 11, page 19 - Do you have a steel, aluminum, fiberglass or glass panel door? If so, horizontal and vertical reinforcement is required.
- Look at the garage door where it meets the floor. It must close on the floor all the way across. Otherwise, the safety reverse system may not work properly. Floor or door should be repaired. See page 23.
- If your door is more than 7 feet high, see longer rails available on page 34.



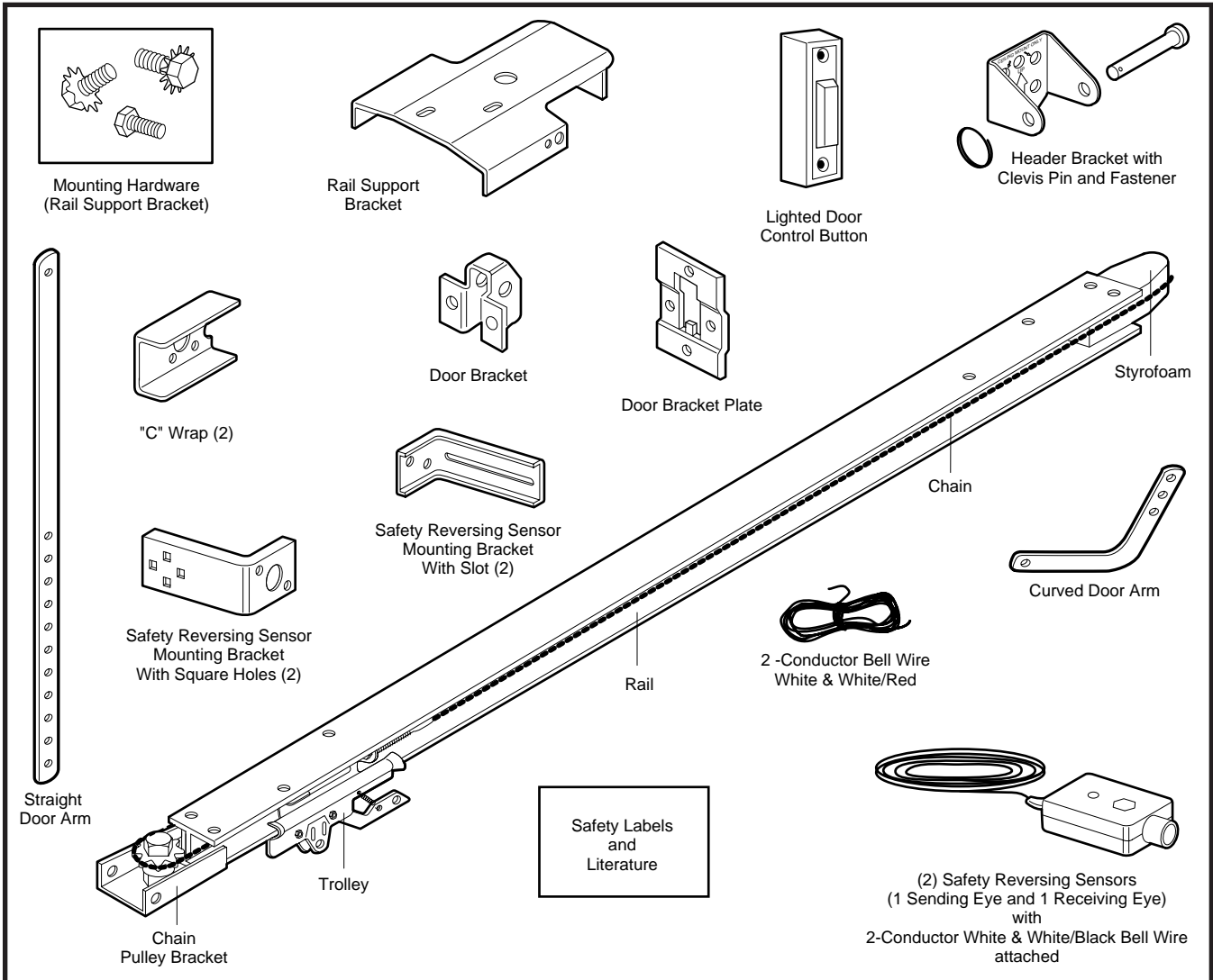
- The opener can be installed within 2 feet to the left or right of the door center if there is a torsion spring or center bearing plate in the way of the header bracket or door bracket area. *If your door has extension springs, the opener must be installed in the center of the door.* See pages 8 and 19.

Do you have an access door in addition to the garage door? If not, Model 1702 Outside Quick Release is required. See page 34.

**You may find it helpful to refer back to this page as you proceed with the installation of your opener.**

# Opener Carton Inventory

Your garage door opener is packaged in two cartons which contain all parts illustrated below. If anything is missing, carefully check the packing material. Parts may be "stuck" in the foam. Hardware for assembly and installation is listed below.



## Hardware Inventory

### Assembly Hardware

5/16"-18x1/2" Washered Screw, (2) (Mounted in Opener)  
 1/4"-20x5/8" Hex Screw (2)  
 1/4"-20x5/8" Lock Washer (2)  
 #8-32x3/8" Screw (1)  
 5/16"-18x1/2" Washered Screw (2)

### Installation Hardware

Hex Screw 5/16"-18x7/8" (4)  
 Nut 5/16"-18 (4)  
 Lock Washer 5/16" (4)  
 Rail Grease  
 Lag Screw 5/16"-9x1-5/8" (2)  
 Lag Screw 5/16"-18x1-7/8" (2)  
 Screw 6ABx1-1/2" (2)  
 Handle  
 Ring Fastener (3)  
 Self-Threading Screw 1/4"-14x5/8"  
 Insulated Staples (10)  
 Dry Wall Anchors (2)  
 Clevis Pin 5/16"x2-3/4" (1)  
 Clevis Pin 5/16"x1" (2)  
 Rope

### Hardware for Safety Reversing Sensor

Lag Screw 1/4"x1-1/2" (4)  
 Carriage Bolt 1/4"-20x1/2" (4)  
 Lock Nut 1/4"-20 (4)  
 Wing Nut (2)  
 Hex Screw 1/4"-20x1-1/2" (2)  
 Screw #10-32x3/8" (4)  
 Lock Nut #10x32 (4)  
 Insulated Staples (20)

## Assembly Step 1

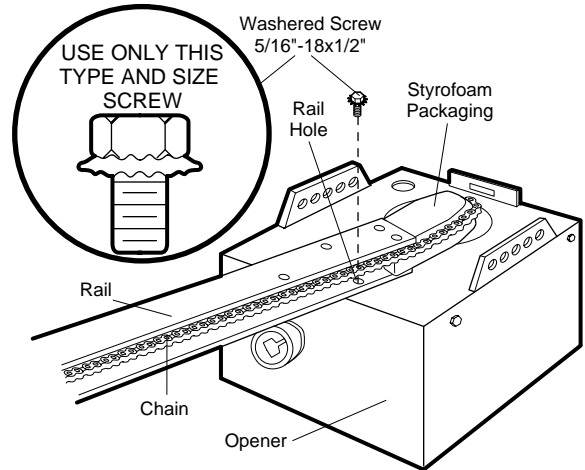
### Attach the Rail to the Opener

- Place the opener on packing material to protect the cover.
  - Remove the (2) 5/16"-18x1/2" washered screws mounted in the top of the opener.
  - Align rail at an angle with opener so one hole in rail and opener line up.
  - Thread one of the washered screws part way in.
- Use only these screws! Use of any other screws will cause serious damage to door opener.**
- Cut tape from rail, chain and styrofoam.
  - **REMOVE STYROFOAM.**



## CAUTION

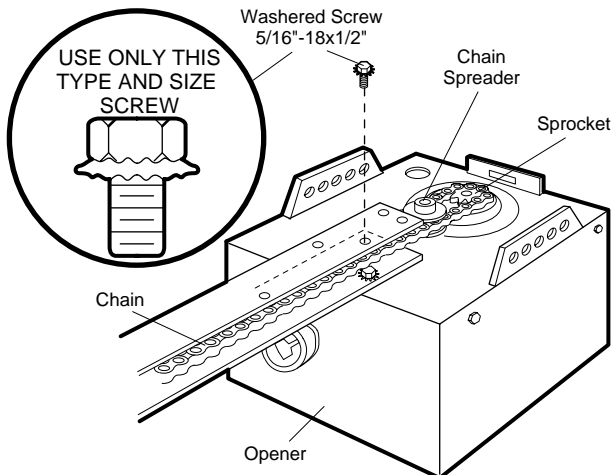
To fasten rail, use only those screws mounted in the top of the opener. Any other screws will cause serious damage to the opener.



## Assembly Step 2

### Attach the Chain to the Sprocket & Install the Rail Support Bracket

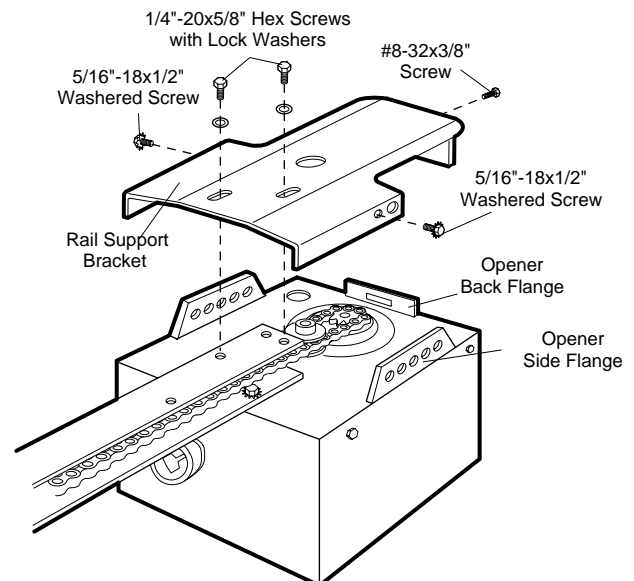
- Guide the chain over chain spreader and opener sprocket. If necessary, loosen the outer nut on the trolley to obtain more chain slack. Insert the second washered screw. **CAUTION! Use only the screw previously removed from opener.**
- Tighten both screws securely through the rail into the opener as shown.



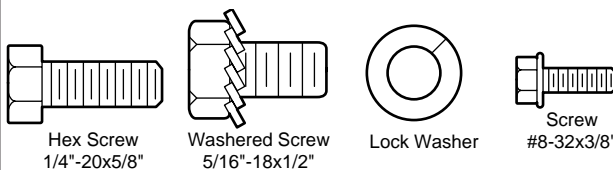
## WARNING

Serious injury can result if fingers become entangled in moving opener sprocket. Attach rail support bracket securely. Never operate opener while you hand is near the opener sprocket.

- Position the rail support bracket on the opener.
- Attach the bracket to the rail with 1/4"-20x5/8" hex screws and lock washers.
- Attach the bracket to the opener by inserting a 5/16"-18x1/2" washered screw through a hole in each side flange and a matching hole in the bracket. Complete the connection by inserting the #8-32x3/8" screw through the back flange and the hole in rail support.



### Hardware Shown Actual Size





## Assembly Step 3

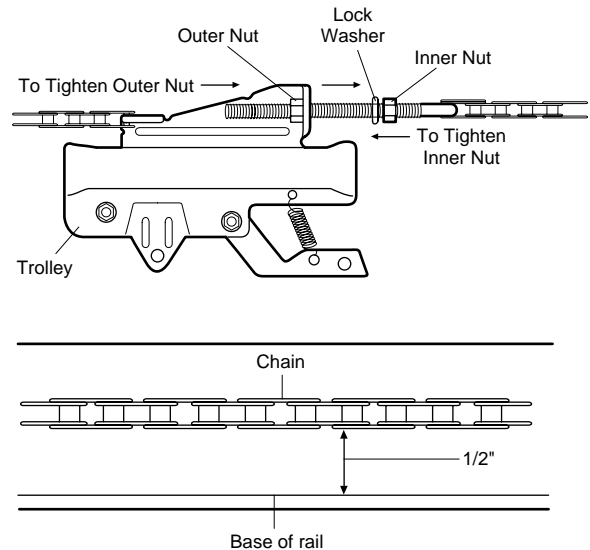
### Tighten the Chain

- Spin the inner nut and lock washer down the threaded shaft, away from the trolley.
- To tighten the chain, turn outer nut in the direction shown. **As you turn the nut, keep the chain from twisting.**
- When the chain is approximately 1/2" above the base of the rail at its midpoint, re-tighten the inner nut to secure the adjustment.

**Sprocket noise can result if chain is either too loose or too tight.**

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

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



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

## IMPORTANT INSTALLATION INSTRUCTIONS



**WARNING**



**WARNING**

**To reduce the risk of severe injury or death to persons:**

1. **READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS**
2. Install only on a properly balanced and lubricated garage door. *An improperly balanced door may not reverse and could result in severe injury or death.* Repairs to cables, spring assemblies and other hardware must be made by a professional service person before installing opener.
3. Disable all locks and remove all ropes connected to the garage door before installing the opener. *Ropes connected to a garage door can cause entanglement and death.*
4. If possible, install door opener 7 feet or more above floor with the manual release handle mounted 6 feet above the floor.
5. Do not connect the opener to power source until instructed to do so.
6. Locate the Door Control within sight of the door at a minimum height of 5 feet where small children cannot reach and away from all moving parts of the door.
7. Install the User Safety Instruction Label on the wall adjacent to the control button and the Maintenance Instruction Label in a prominent location on the inside of the garage door.
8. Upon completion of the installation, the door must reverse when it comes in contact with a one-inch high object or a 2x4 laid flat on the floor.
9. Do not wear watches, rings or loose clothing while installing or servicing an opener. Jewelry or loose clothing can be caught in the mechanism of the garage door or the opener.

## Installation Step 1

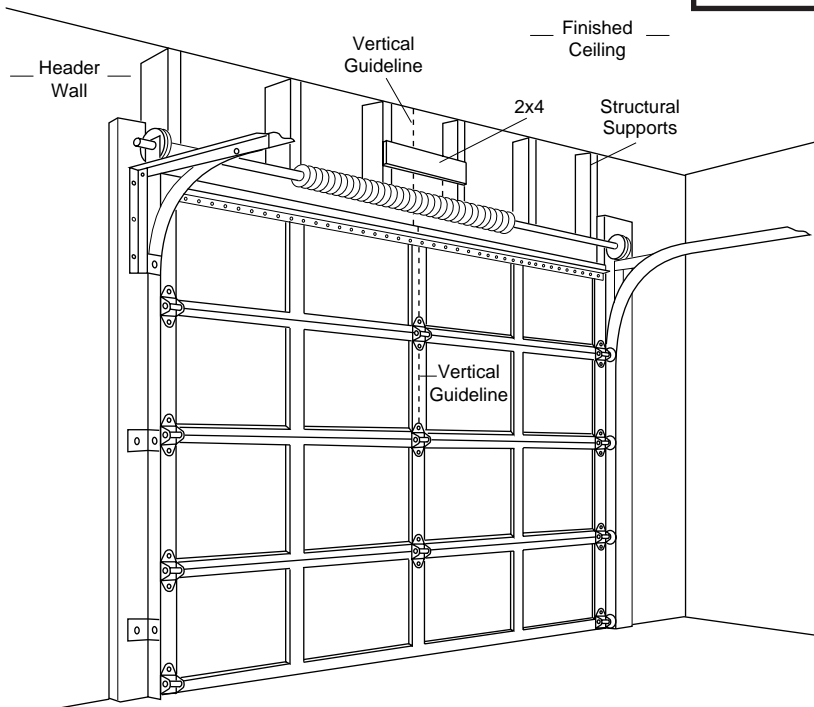
### Determine Header Bracket Location



## WARNING

If the header bracket is not rigidly fastened to a structural support on the header wall or ceiling, the safety reverse system may not work properly (see page 23). *The door might not reverse when required, and could cause serious injury or death.*

The garage door springs, cables, pulleys, brackets and their hardware are under extreme tension. *Do not attempt to loosen, move or adjust them yourself. Serious personal injury or death could result. Call for professional garage door service.*

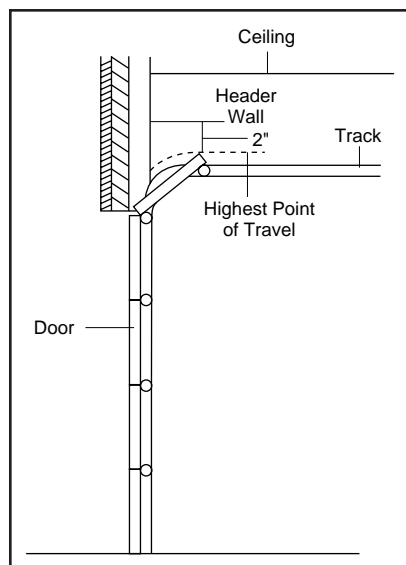


- Close the door and mark the inside vertical centerline of the garage door.
- Extend the line onto the header wall above the door.

**Remember, you can fasten the header bracket within 2 feet to 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 (refer to page 9) when clearance is minimal. (It may be mounted on the wall upside down if necessary, to gain approximately 1/2".)**

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

- Open your door to the highest point of travel as shown. Draw an intersecting horizontal line on the header wall 2" above the high point. This height will provide travel clearance for the top edge of the door.



Proceed to Step 2, page 9.



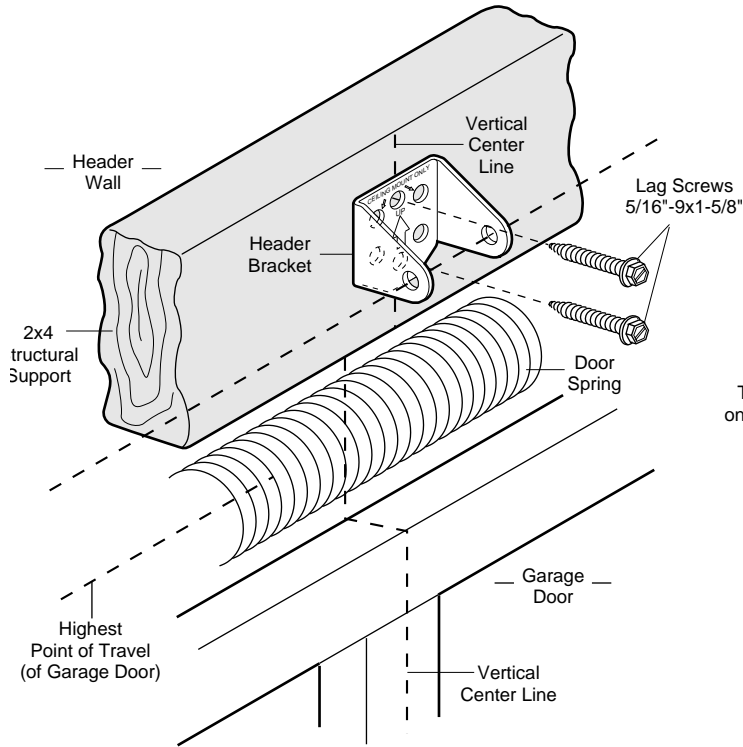
## Installation Step 2

### Install the Header Bracket

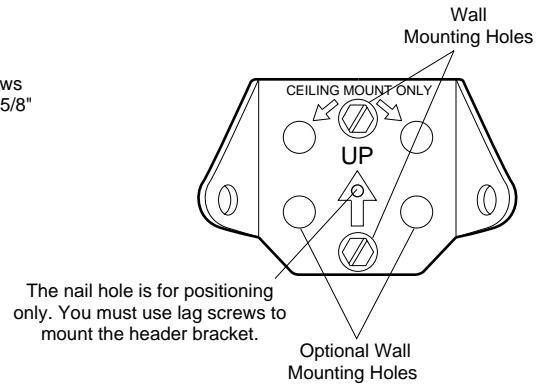
You can attach the header bracket either to the wall above the garage door, or to the ceiling. Follow the instructions which will work best for your particular requirements.

#### Fasten the Header Bracket to the Wall

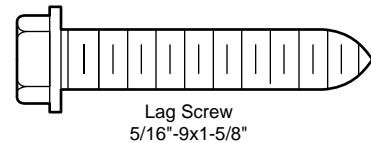
- Center the bracket on the vertical guideline with the bottom edge of the bracket on the horizontal line as shown (with the arrow pointing toward the ceiling).



- Mark either 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.

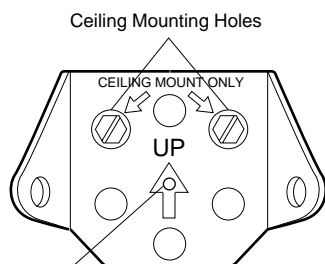


#### Hardware Shown Actual Size

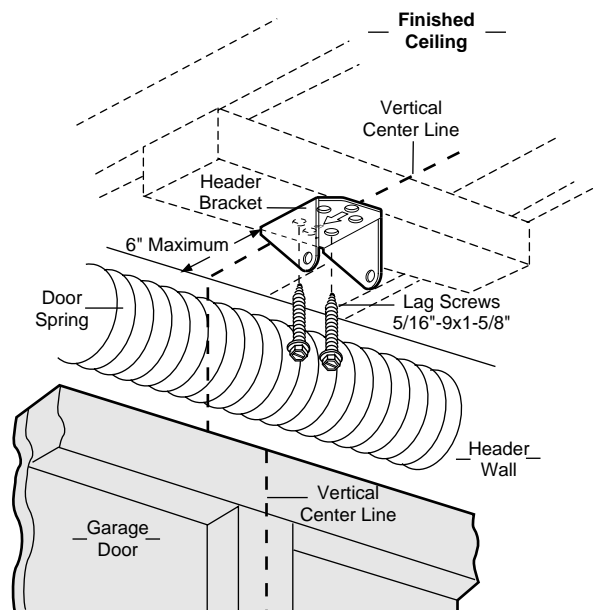


#### Fasten the Header Bracket to the Ceiling

- Extend the vertical guideline onto the ceiling as shown.
- Center the bracket on the vertical mark, no more than 6" 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 holes designated for ceiling mount only. Drill 3/16" pilot holes and fasten the bracket securely to a structural support with the hardware provided.

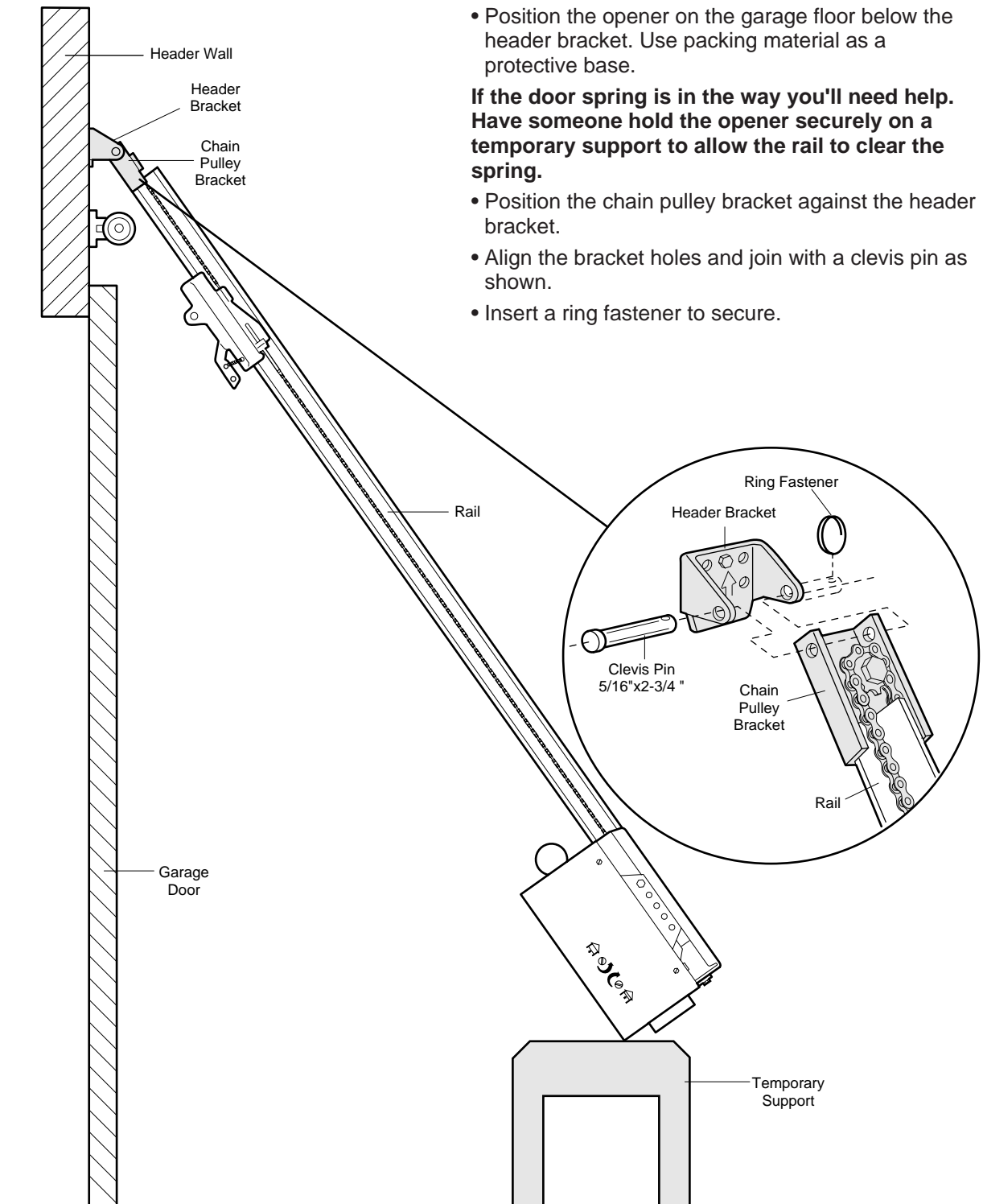


The nail hole is for positioning only. You must use lag screws to mount the header bracket.



## Installation Step 3

### Attach the Rail to the Header Bracket

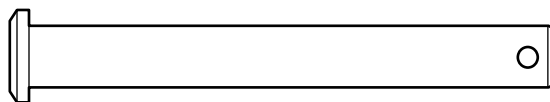


- Position the opener on the garage floor below the header bracket. Use packing material as a protective base.

**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 chain pulley 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" x 2-3/4"



Ring Fastener

## Installation Step 4

### Position the Opener



## CAUTION

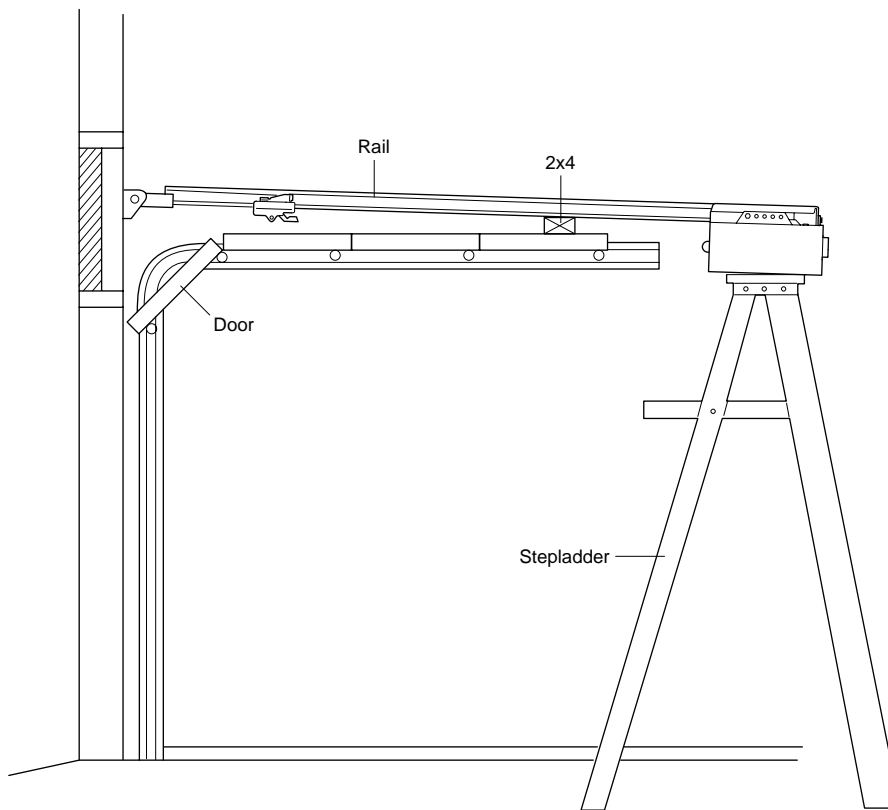
To prevent damage to steel, aluminum, fiberglass or glass panel doors, do not rest the opener on the door without using a 2x4.

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

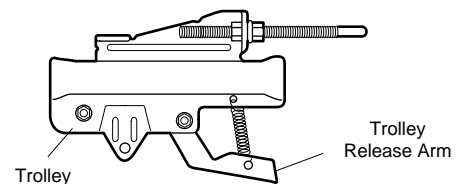
- Raise the opener onto a stepladder.

*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 panel hits the trolley when you raise the door, pull down on the trolley release arm to disconnect the inner and outer sections. The trolley can remain disconnected until Step 12 is completed.*



## Installation Step 5

### Hang the Opener

Two representative installations are shown. Yours may be different. Hanging brackets should be angled, Figure 1, to provide rigid support. On finished ceilings, Figure 2, attach a sturdy metal bracket to structural supports in ceiling before installing the opener. The bracket and fastening hardware are not supplied.

- Measure the distance from *each* side of the opener to the structural support.
- Cut both pieces of the hanging bracket to required lengths.
- Drill  $3/16$ " pilot holes in the structural supports.
- Attach one end of each bracket to a support with  $5/16$ "x $1-7/8$ " lag screws.
- Fasten the opener to the hanging brackets with  $5/16$ "- $18$ x $7/8$ " hex screws, lock washers and nuts.
- 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).
- Remove the 2x4. Operate the door manually. If the door hits the rail, raise the header bracket.

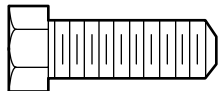
Grease the top and underside of the rail surface where the trolley slides. A tube of grease is supplied.



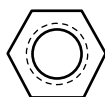
#### Hardware Shown Actual Size



Lag Screw  
 $5/16$ "- $18$ x $1-7/8$ "



Hex Screw  
 $5/16$ "- $18$ x $7/8$ "



Nut  $5/16$ "- $18$



Lock Washer  $5/16$ "



## WARNING

The opener could fall and injure someone if it is not properly secured. Fasten the opener securely to structural supports of the garage.

Figure 1

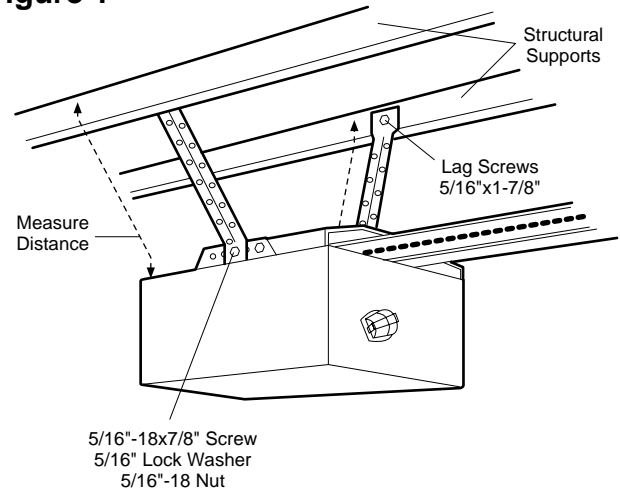
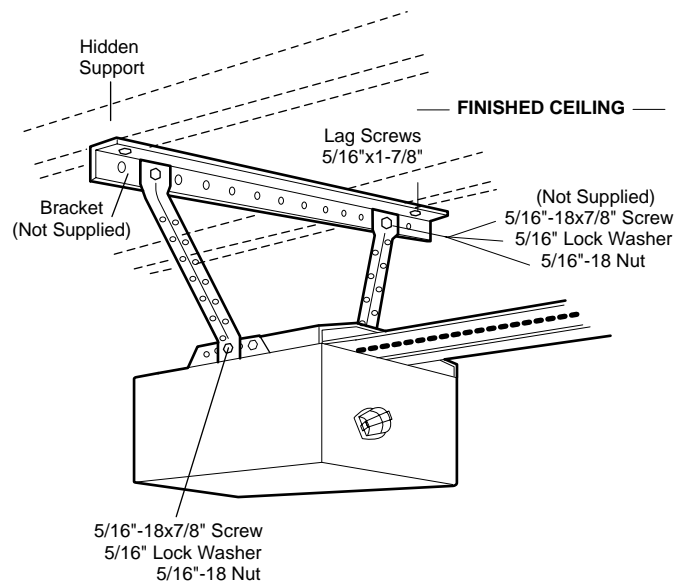


Figure 2



## Installation Step 6

### Install the Door Control

- Strip 1/4" of insulation from one end of the bell wire; connect the wire to the two screw terminals on the back of the Door Control: white to 2 and white/red to 1.
- Locate the door control within sight of the door at a minimum height of 5 feet where small children cannot reach, and away from all moving parts of the door and door hardware.** Fasten the Door Control Button securely with 6ABx1-1/2" screws. If installing into drywall, drill 5/32" holes and use the anchors provided.
- Run the bell wire up the wall and across the ceiling to the opener. Use insulated staples to secure the wire in several places. Be careful not to pierce the wire with a staple, thereby resulting in a short.
- Receiver terminal screws and the antenna are located on the back panel of the opener. Position the antenna wire as shown.
- Then connect the bell wire by color to the opener terminal screws: white to 2 and white/red to 1.
- Remember to affix the User Safety Instruction label to the wall near the door control, and the Maintenance Instruction Label in a prominent location on the inside of the garage door.**

If the label adhesive will not adhere to your garage wall surface (or becomes loose with time), use tacks to secure the label alongside the door control. Page 25 explains how to operate the opener using the door control.



## WARNING

Children operating or playing with a garage door opener can injure themselves or others. *The garage door could close and cause serious injury or death.*

Install the Door Control (or any additional push buttons) out of the reach of children and away from all moving parts of the door and door hardware, *but where the garage door is visible.* Do not allow children to operate the push button(s) or the remote control transmitter(s).

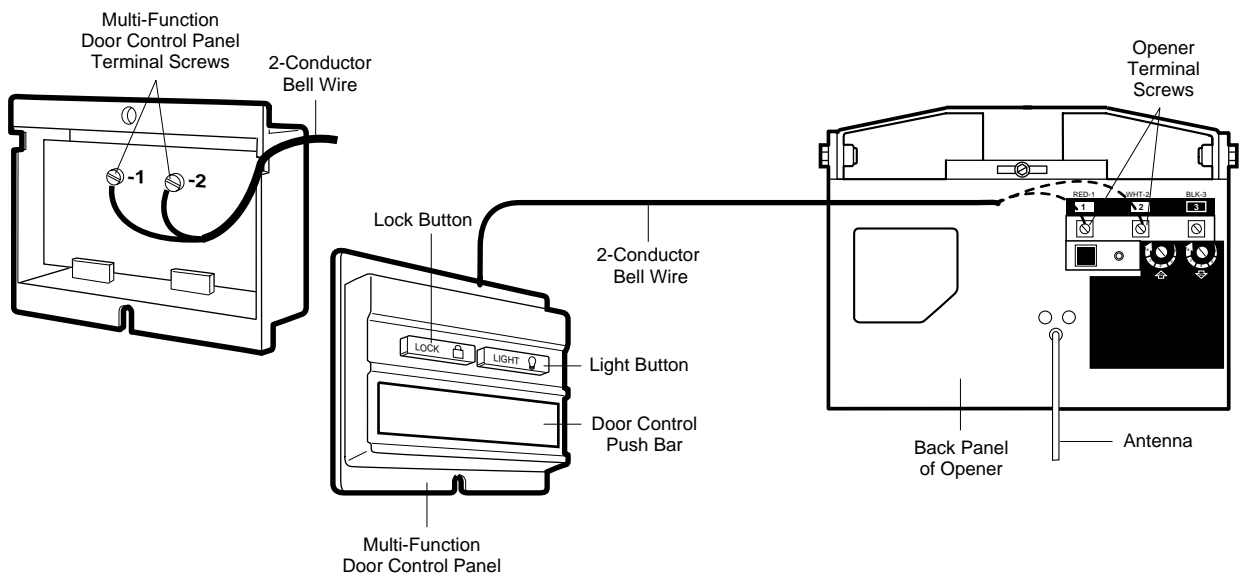
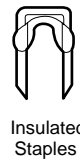
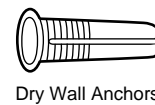
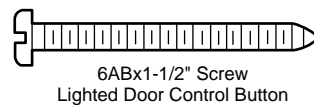
*A moving garage door could injure someone under it.* Activate the opener only when the door is properly adjusted, you can see it clearly, and there are no obstructions to door travel.

**Do NOT connect the power and operate the opener at this time.** The trolley will travel to the full open position but will not return to the close position until the sensor beam is connected and properly aligned. See Safety Reversing Sensor Instructions beginning on page 16.

### Outside Keylock Accessory Connections

To opener terminal screws:  
White to 2 and white//red to 1

### Hardware Shown Actual Size

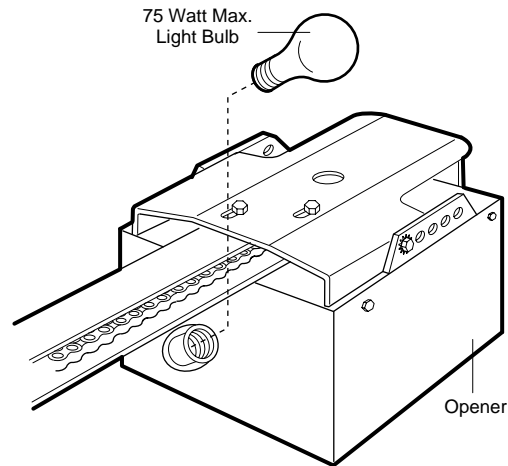


## Installation Step 7

### Install the Light

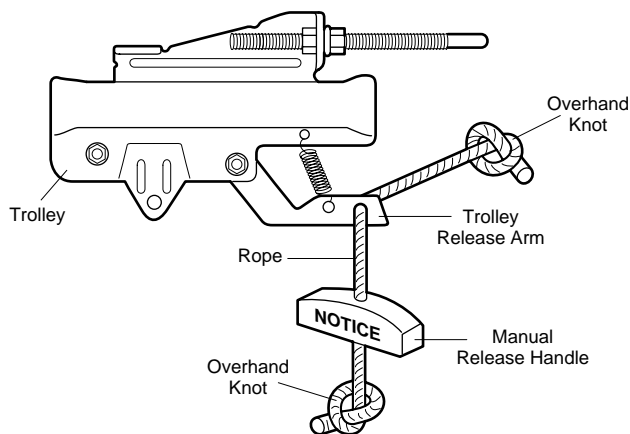
#### Install the Light

- Install a 75 watt maximum light bulb in the socket. The light will turn ON and remain lit for approximately 4-1/2 minutes when power is connected. Then the light will turn OFF.
- If the bulb burns out prematurely due to vibration, replace with a "Garage Door Opener" bulb.



## Installation Step 8

### Attach the Manual Release Rope and Handle



## WARNING

Do not use the red handle to pull the door open or closed. *The rope knot could become untied and you could fall.* Use the manual release only to disengage the trolley and, if possible, only when the door is closed.

Garage doors are heavy. If the door is open when the handle is pulled, the door could close inadvertently if it is not properly balanced. Serious injury may result to persons under the door. Make sure the doorway is clear of persons and obstructions before pulling handle when door is open.

- 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. **The knot should be at least 1" from the end of the rope to prevent slipping.**
- Thread the other end of the rope through the hole in the release arm of the outer trolley.
- Adjust rope length so the handle is 6 feet above the floor. Secure with an overhand knot.

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



## Installation Step 9

### Electrical Requirements

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.

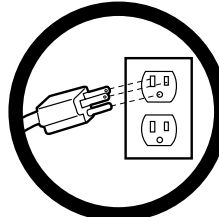
**To avoid installation difficulties, do not run the opener at this time.**



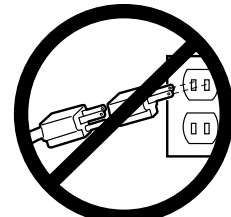
## WARNING

To prevent electrocution or fire, installation and wiring must be in compliance with local electrical and building codes.

Do NOT use an extension cord, 2-wire adapter, or change the plug in any way to make it fit your outlet.



Right



Wrong

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



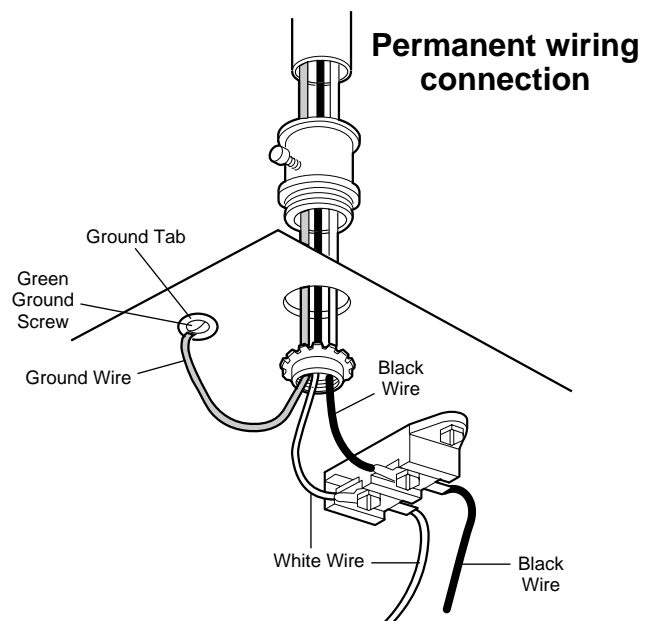
## WARNING

To prevent electrocution, remove power from the garage door opener *and* from the circuit you plan to use for the permanent connection.

To make a permanent connection through the 7/8" diameter hole in the top of the opener (according to local code):

- Remove the opener 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.**



# The Protector System®

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

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

**Be sure power to the opener is disconnected.**

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

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

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

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

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

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

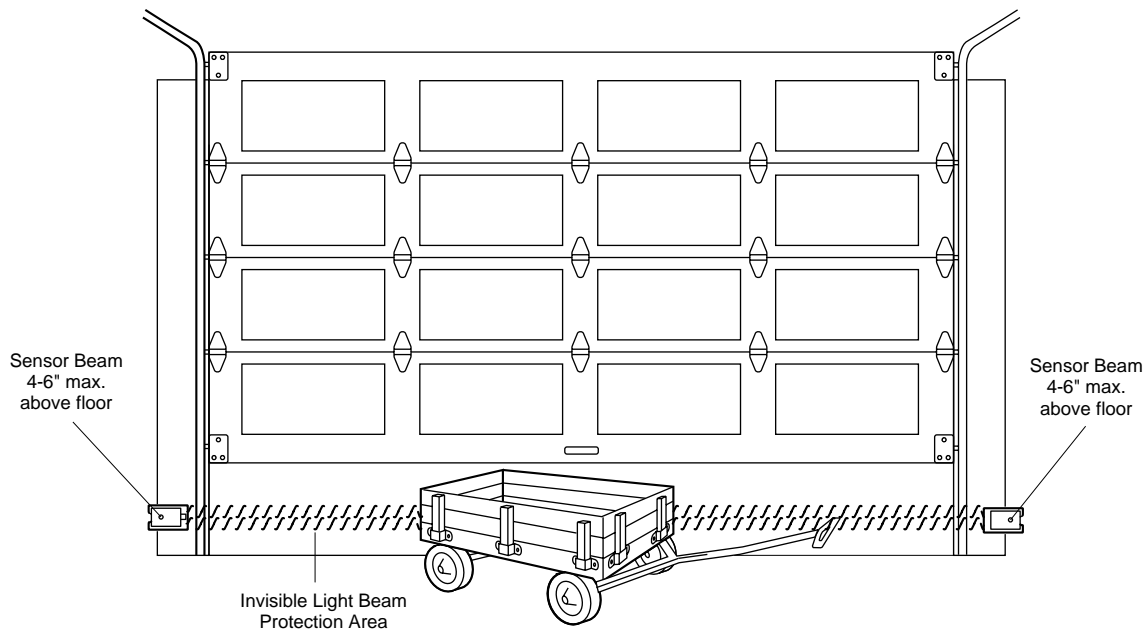


## WARNING

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

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

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



Facing the door from inside the garage

# Installation Step 10

## Install the Safety Reversing Sensor (Receiving and Sending Eyes)

Figures 1, 2 and 3 show recommended assembly of bracket(s) and "C" wrap based on the *wall* installation of the sensors on each side of the garage door as shown on page 16, or on the *garage door tracks* themselves.

Figures 4 and 5 are variations which may fit your installation requirements better. **Make sure the wraps and brackets are aligned so the sensors will face each other across the garage door.**

### Garage Wall or Door Track Installation

1. Fasten the "C" wraps to the mounting brackets having square holes, using the hardware shown in Figure 1.

### Garage Wall Installation

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

### Garage Door Track Installation

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

Figure 1

### Garage WALL or DOOR Track Installation

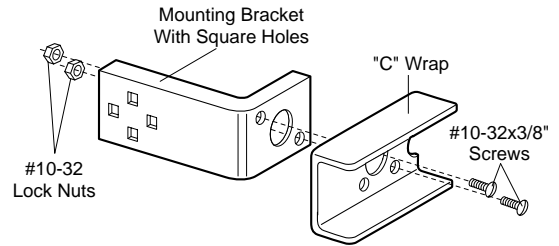


Figure 2

### Garage WALL Installation

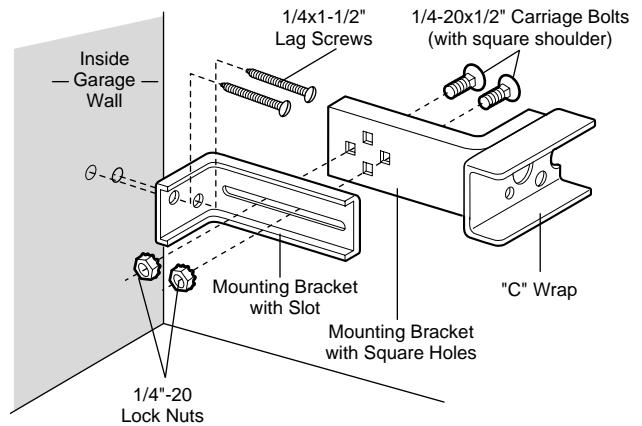


Figure 3

### Garage DOOR Track Installation

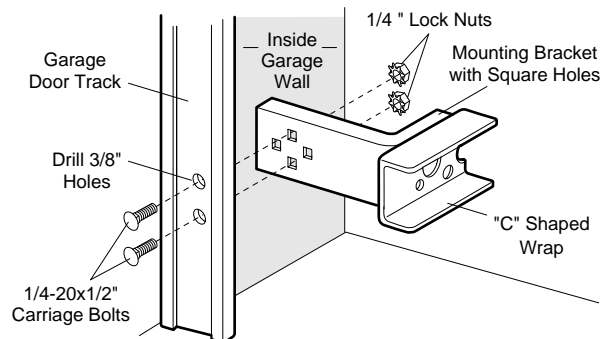


Figure 4

### Alternate Wall Mount

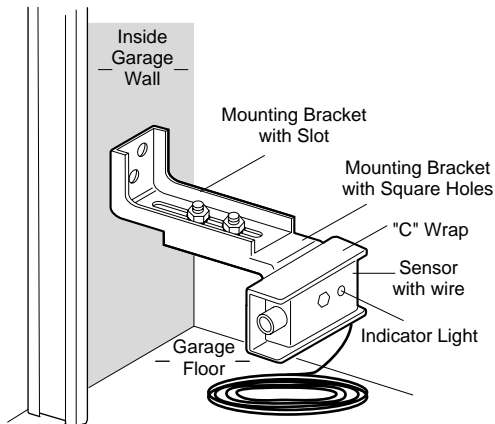
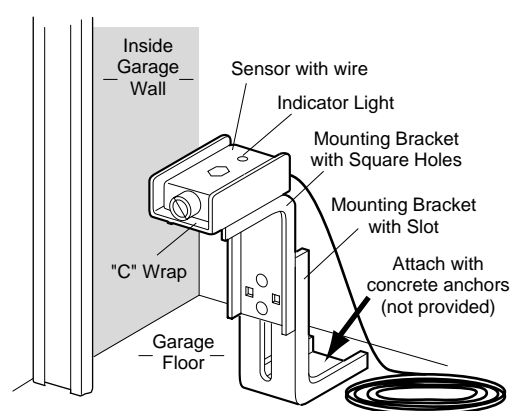
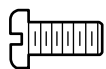


Figure 5

### Alternate Floor Mount



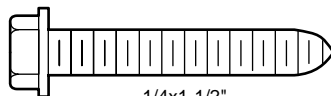
### Hardware Shown Actual Size



#10-32x3/8" Screw



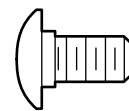
#10x32 Lock Nut



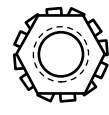
1/4x1-1/2" Lag Screw



Staples



1/4"-20x1/2" Carriage Bolts



1/4"-20 Lock Nut

- Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door (see Figure 6).
- Secure sensors with the hardware shown. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.
- Run the wires from both sensors to the opener (see Figure 7). Use insulated staples to secure the wire to wall and ceiling.
- Strip 1/4" of insulation from each set of wires. Separate white and white/black wires sufficiently to connect to the opener terminal screws: white to 2 and white/black to 3.

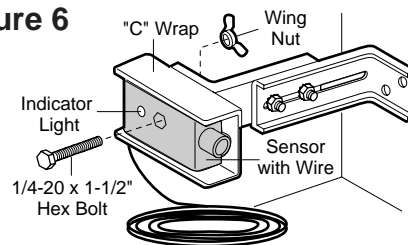
### Aligning the Safety Sensors

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

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

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

Figure 6



### Trouble Shooting

1. If the *sending eye* indicator light does not *glow steadily* after installation, check for:
  - Electric power to the opener.
  - A short in the white or white/black wires. These can occur under staples or at screw terminal connections.
  - Incorrect wiring between sensors and opener.
  - An open wire (wire break).
2. If the sending eye indicator light *glows steadily* but the receiving eye indicator light doesn't:
  - Check alignment.
  - Check for an open wire to the receiving eye.
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 light will flash 10 times. (If bulb is not installed, 10 clicks are audible.) See page 16.

### Hardware Shown Actual Size

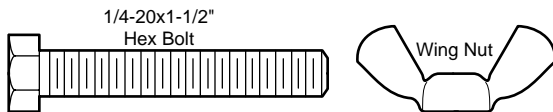
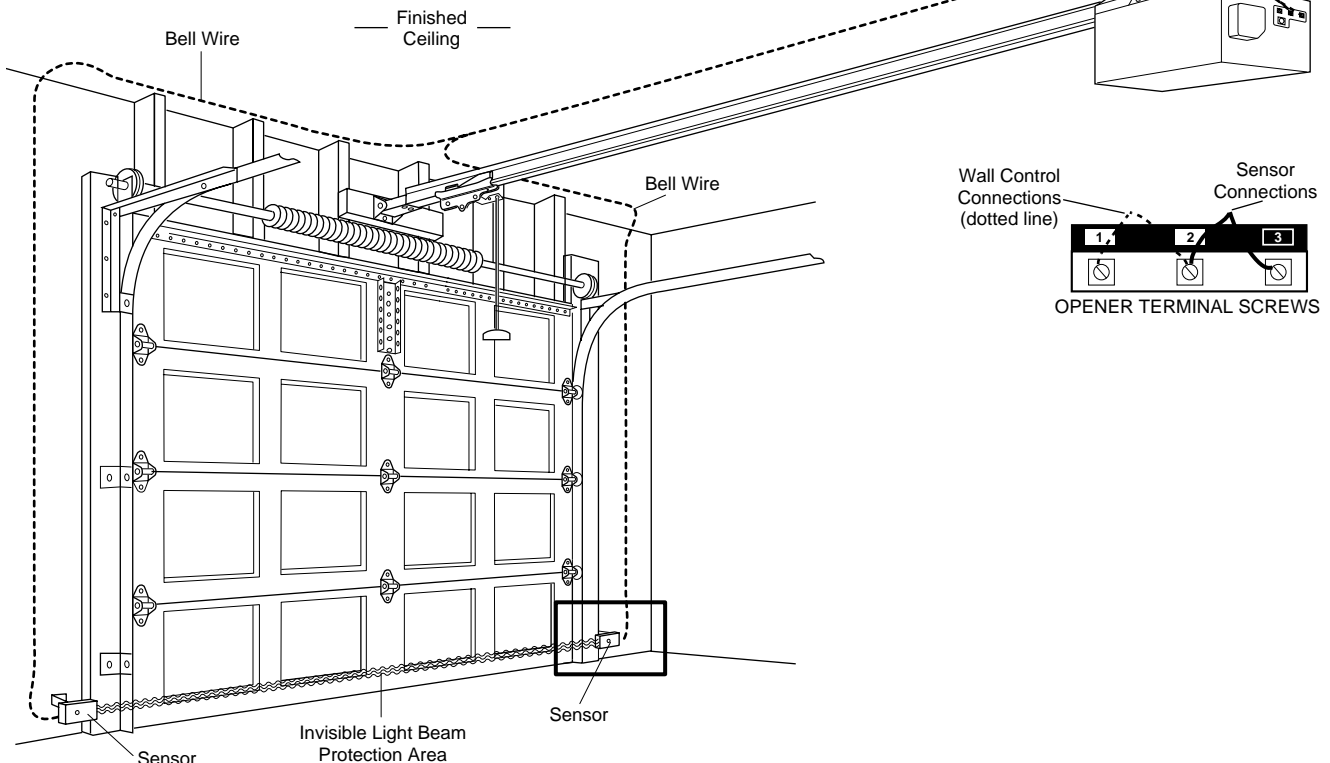


Figure 7



## Installation Step 11

### Fasten Door Bracket & Plate

## INSTALLATION STEP 11

### Fasten the Door Bracket

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" 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:**

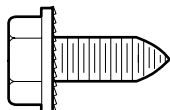
- Drill 3/16" fastening holes. Secure the door bracket using the self-threading screws (Figure 3).

### 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 bolt, lock washer and nuts (not provided). (Figure 4)

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

HARDWARE SHOWN  
ACTUAL SIZE



Self-Threading Screw  
1/4"-14x5/8"



## WARNING

To prevent damage to steel, aluminum, fiberglass or glass panel doors, always reinforce the inside of the door both vertically and horizontally with an angle iron.

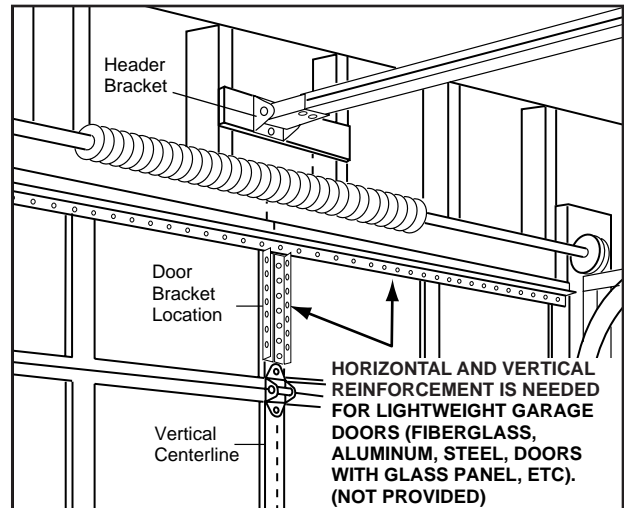


Figure 1

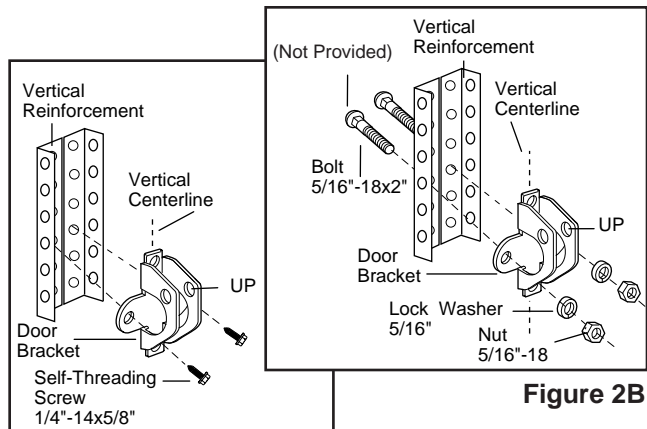


Figure 2B

Figure 2A

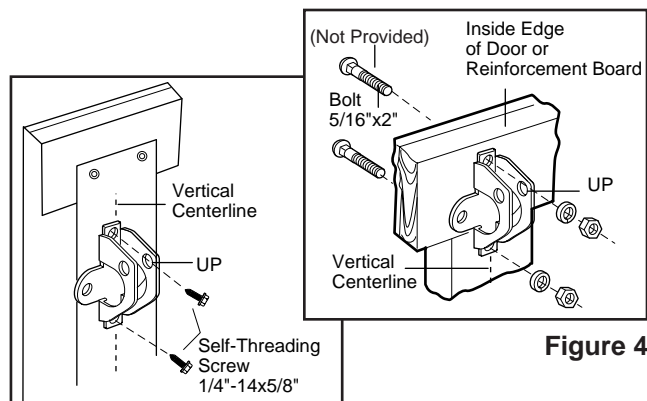


Figure 4

Figure 3

## Installation Step 12

### Connect Door Arm to Trolley

Make sure garage door is fully closed. Pull the manual release handle to disconnect the outer trolley from the inner trolley. Slide the outer trolley back (away from the door) about 2" as shown in Figures 1, 2 and 3.

Figure 1:

- Fasten straight door arm section to outer trolley with a clevis pin. Secure the connection with a ring fastener.
- Fasten curved section to the door bracket in the same way as shown.

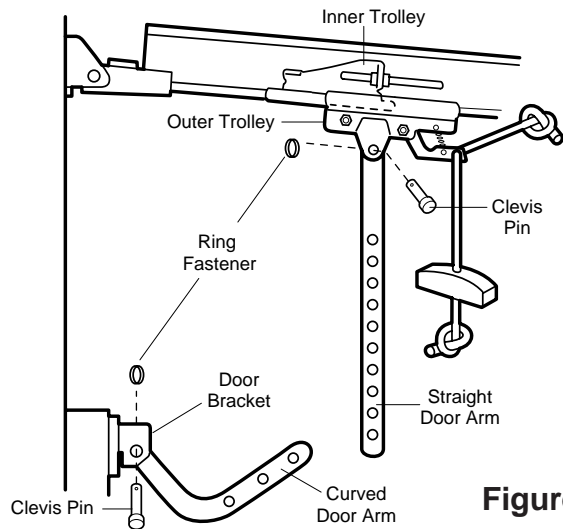


Figure 1

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.

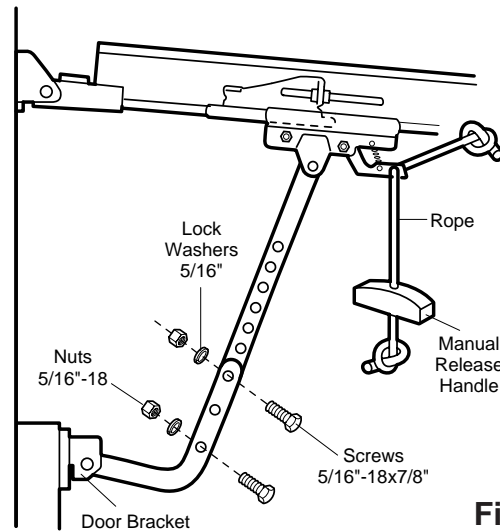


Figure 2

### Hole Alignment Alternative

Figure 3:

- If holes in curved arm are *above* holes in straight arm, disconnect straight arm. Cut about 6" 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 screws, lock washers and nuts.

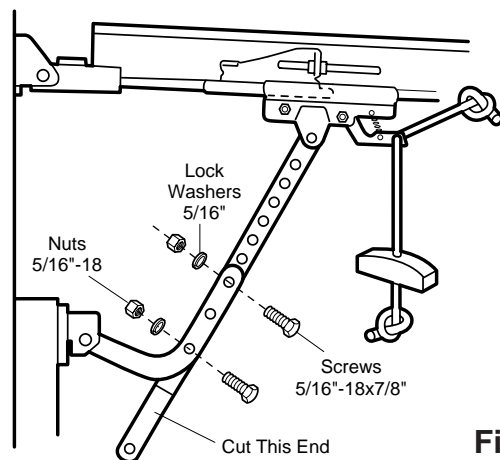
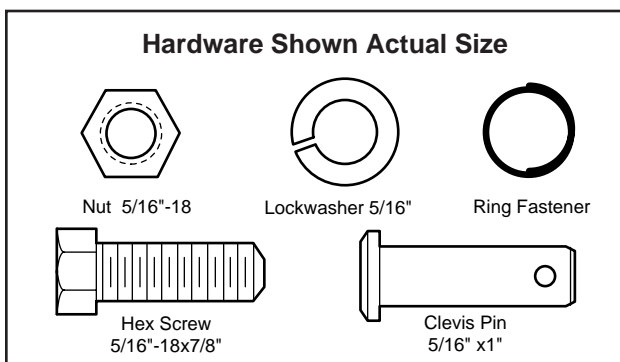


Figure 3

Proceed to Adjustment Step 1, page 21. Trolley will re-engage automatically when the opener is operated.



## Adjustment Step 1

### Adjust the UP and DOWN Limits

**Do not make any limit adjustments until the Safety Reversing Sensors are completely installed.**

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

The door will *stop* in the *up* direction if anything interferes with door travel. The door will *reverse* in the *down* direction if anything interferes with the door travel (including binding or unbalanced doors).

To operate the opener, press the Door Control push button. 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 (see page 23).

Adjustment procedures are outlined below. **Run the opener through a complete travel cycle after each adjustment.**

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

Read the procedures carefully before proceeding to Adjustment Step 2. Use a screwdriver to make limit adjustments.

### How and When to Adjust the Limits

- **If the door does not open completely but opens at least five feet:**

Increase *up* travel. Turn the UP limit adjustment screw clockwise. One turn equals 2" of travel.

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

- **If door does not open at least 5 feet:**

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

- **If the door does not close completely:**

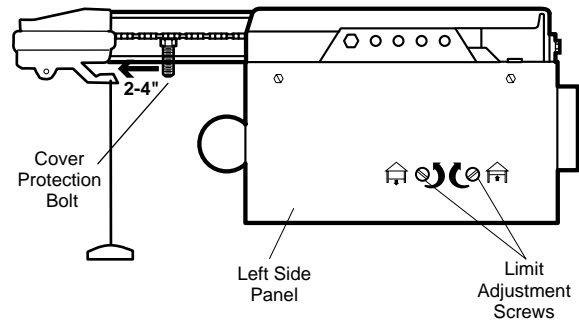
Increase *down* travel. Turn the DOWN limit adjustment screw counterclockwise. One turn equals 2" of travel.

If door still won't close completely and the trolley bumps into the pulley bracket (see page 4), try lengthening the door arm. (See page 20.)



## WARNING

Improper adjustment of the travel limits could interfere with the proper operation of the safety reverse system. **The door might not reverse properly when required and could seriously injure or kill someone under it. Test the safety reverse system following all adjustments to the travel limits. See page 23.**



Adjustment Label

## Adjustment Step 2

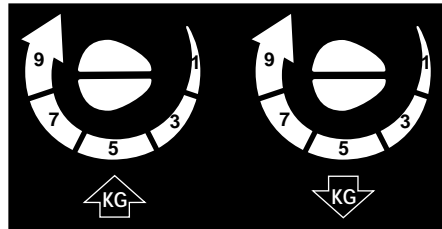
### Adjust the Force

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


The door will *stop* in the *up* direction if anything interferes with its travel. The door will *reverse* in the *down* direction if anything interferes with its travel (including binding or unbalanced doors).

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.

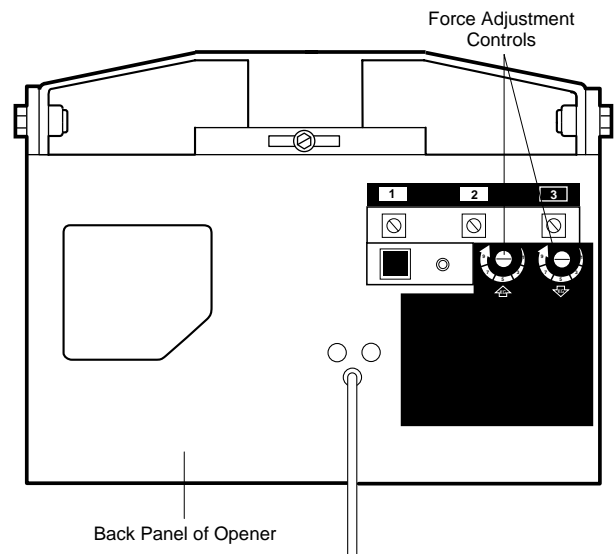
The maximum force adjustment range is 260 degrees, about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.



Adjustment Label

**WARNING**

Too much force on the door will interfere with the proper operation of the safety reverse system. *The door might not reverse properly when required and could seriously injure or kill someone under it.* Do not increase the force beyond what is required to close the door. Do not use the force adjustments to compensate for a binding or sticking garage door. Test the safety reverse system following all adjustments to force levels. See page 23.



## How and When to Adjust the Forces

### 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 one-inch obstruction. See page 23.*** If the door is hard to hold or doesn't reverse, decrease the DOWN (close) force by turning the control counterclockwise.

Make 10 degree turn adjustments until the door reverses normally. After each adjustment, run the opener through a complete cycle.

### 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 10 degree turn adjustments until the door stops easily. After each adjustment, run the opener through a complete travel cycle.

### If the door doesn't open *at least 5 feet*

Increase UP (Open) force by turning the control clockwise. Make 10 degree turn adjustments until door opens completely. Re-adjust the UP limit if necessary. After each adjustment, run the opener through a complete travel 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 10 degree turn 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.**

## Adjustment Step 3

### Test The Protector System®

- Press the Door Control push button to open the door.
- Place the opener carton in the path of the door.
- Press the Door Control push button to close the door. *The door will not move more than an inch, and the opener light will flash.*

**Professional service is required if the opener closes the door when the safety reversing sensor is obstructed.**

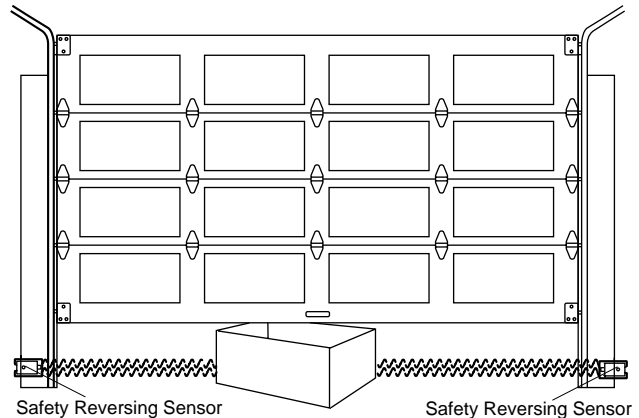
**The garage door opener will not close from a remote control transmitter if the indicator light in either sensor is *off* (alerting you to the fact that the sensor is misaligned or obstructed).**

The garage door can be closed by pressing and holding the Door Control push button until down travel is completed.



## WARNING

**Without a properly working safety reversing sensor, persons (particularly children) could be seriously injured or killed if trapped by a closing garage door. Repeat this test once a month.**



## Adjustment Step 4

### Test the Safety Reverse System

#### Test:

- Place 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.**

#### Adjustment:

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.
- Repeat the test.

**Make sure limit adjustments do not force the door arm beyond a straight up and down position. See the illustration on page 20.**

- When the door reverses on the 2x4, remove the obstruction and run the opener through 3 or 4 complete travel cycles to test adjustment.

**If the door will not reverse after repeated adjustment attempts, call for professional garage door service.**

#### Important safety check

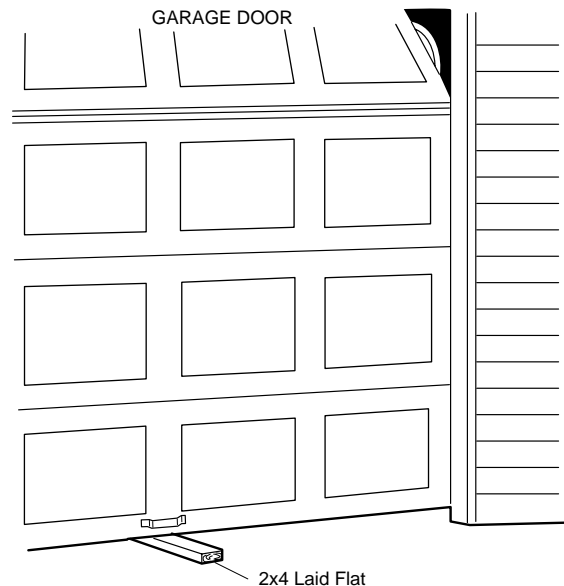
#### Repeat Adjustment Steps 1, 2 and 4 after:

- Each adjustment of door arm length, force controls or limit 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.



## WARNING

**Failure to test and adjust the safety reverse system may result in serious injury or death to persons trapped by a closing garage door. Repeat this test once a month and adjust as needed.**



## IMPORTANT SAFETY INSTRUCTIONS



**WARNING**



**WARNING**

**To reduce the risk of severe injury or death to persons:**

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Do not permit children either to operate or to play with the opener. Keep a remote control in a location inaccessible to children.
3. Operate opener only when the door is in full view and free from any obstruction. Keep the door in sight until it is completely closed. **NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.**
4. Check safety reversal system monthly. See page 23. The garage door **MUST** reverse on contact with a one-inch object (or a 2x4 board laid flat) placed on the floor. If an adjustment is made to either the force or the limit of travel, both adjustments may be needed and the safety reversal system **must** be checked. *Failure to properly adjust the opener may result in severe injury or death.*
5. If possible, use the manual release only when the door is in a closed position. Caution should be taken whenever the disconnect cord is actuated with the door open. *Weak or broken springs may cause the door to fall rapidly, causing injury or death to persons.*
6. **KEEP GARAGE DOORS PROPERLY BALANCED.** See page 3. *An improperly balanced door may not reverse when required and could result in severe injury or death.* Repairs to cables, spring assemblies and other hardware must be made by a professional garage door person.
7. Disconnect the electric power from the garage door opener before making any repairs or removing the covers.
8. **SAVE THESE INSTRUCTIONS.**

Do not exceed 8 complete cycles of door operation per hour in commercial applications.

## Care of Your Opener

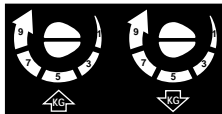
### Limit and Force Adjustment Control

#### Limit Controls



Adjustment Label  
(Located on the left side panel)

#### Force Controls



Adjustment Label  
(Located on the back panel)

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

Pages 21 and 22 refer to the limit and force adjustments. Only a screwdriver is required. Follow the instructions carefully.

**Repeat the safety reverse test (page 23) after any adjustment of limits or force.**

# Operation of Your Opener

## Activate the opener with any of the following:

- **The Door Control.** Hold push button down until the door starts to move.
- **A Remote Control Transmitter.** Hold push button down until the door starts to move.
- **The Outside Keylock or Keyless Entry.** (See Accessories)

## When the opener is activated with the safety reversing sensor installed and correctly 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 (allowing space for entry and exit of pets and for fresh air).
4. If the door has been stopped in a partially open position, it will close.
5. If obstructed while closing, the door will reverse.
6. If obstructed while opening, the door will stop.
7. The garage door will reverse in the closing cycle, and the opener light will blink for 5 seconds, when the invisible beam is broken. 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 not aligned correctly, the door won't close from any remote control transmitter. However, you can close the door with the Door Control, the Outside Keylock, or Keyless Entry, if you activate them *until down travel is complete*. If you release them too soon, the door will *reverse*.

**The opener light** will turn on under the following conditions: When the opener is initially plugged in; when the power is interrupted, when the opener is activated, and when someone walks through the open garage door. It will turn off automatically after 4-1/2 minutes. Bulb size is 75 watts maximum.

## Operation of the Door Control Button

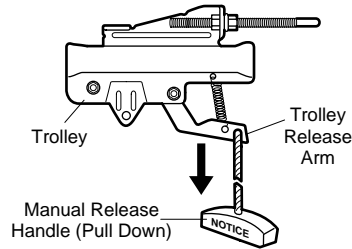
Press to open or close the door.

Press again to *reverse* the door during the closing cycle or to *stop* the door while it's opening.



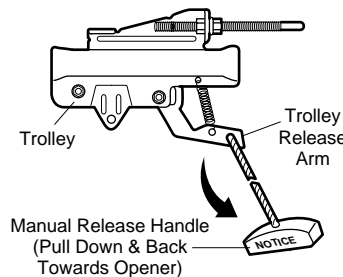
## WARNING

**Weak or broken springs could allow an open door to fall (either rapidly or unexpectedly), resulting in serious injury, death or property damage. If possible, use the manual release rope and handle *only* when the door is fully closed.**



## Manual disconnect position

**To open the door manually:** The door should be fully closed if possible. Pull down on the red manual release handle and lift the door manually. To reconnect the door to the opener, press the Door Control push button.



## Lockout position

**The lockout feature** prevents the trolley from reconnecting automatically. Pull the manual 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 manual release handle straight down. The trolley will reconnect on the next UP or DOWN operation.



# SECURITY+ 3-Channel Remote Control Programming (OPTIONAL)

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

The 90 Series remote control (with yellow battery test light) works only with door openers and light controls having an orange "Smart" button and a yellow indicator light.

Programming instructions are described and illustrated below. The additional push buttons can also activate other garage door openers and/or light controls. (Instructions for programming light products are included with those accessories.) See Accessories on page 34.

Your SECURITY+ opener will operate with:

- several SECURITY+ remote controls (with yellow indicator lights) utilizing up to 8 functions. **NOTE:** *Open/Close/Stop operation counts as 1 function.*
- one Keyless Entry System (with SECURITY+ logo)

## To Program the Opener to Accept the Remote Control Code

Select a remote control push button to operate the opener. The *large* button is recommended for use with a garage door opener.

1. Press and *hold* the selected remote control push button. See Figure 1.
2. Press and release the "Smart" (learn) button on the opener panel, Figure 2. The indicator light on the panel will begin to blink and the opener light will *flash once*.
3. Release the remote push button.

Now the opener will operate when that remote control button is pressed. Test it by pressing the remote button to see that the door goes up and down.

Adding a remote can also be done from the Multi-Function Door Control, as follows:

1. *With the door closed*, press and hold a remote push button.
2. Press and hold the Light button on the door control.
3. Press and hold the door control push bar.
4. After the opener light flashes, release all buttons.

Test by pressing the remote push button.

## To Erase All Remote Control Codes

Press and hold the "Smart" button on the opener panel until the indicator light turns off (about 6 seconds). All transmitter codes are now erased. Then follow the steps above to re-program each remote control.

## To Control the Opener Light

With SECURITY+ transmitters, a remote push button can be programmed to operate the opener light 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 door control.
3. Press and hold the Lock button on the door control.
4. After the opener light flashes, release all buttons.

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



## WARNING

Children operating or playing with a garage door opener can injure themselves or others. **The garage door could close and cause serious injury or death. Do not allow children to operate the Door Control or remote control transmitter(s).**

**A moving garage door could injure or kill someone under it. Activate the opener only when you can see the door clearly, it is free of obstructions, and is properly adjusted.**

## Model 96LM SECURITY+ Remote Control

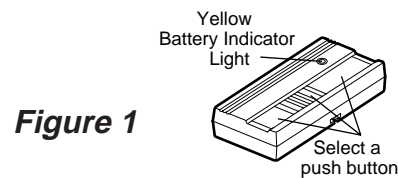


Figure 1

## SECURITY+ Garage Door Opener

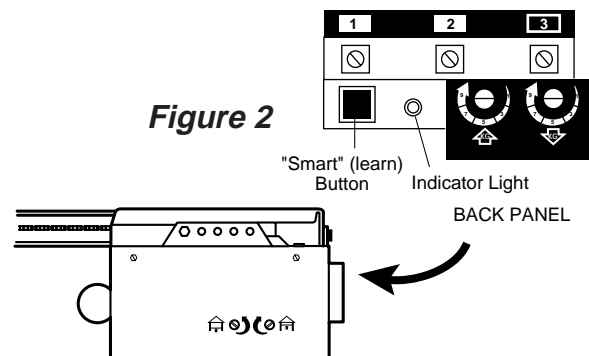


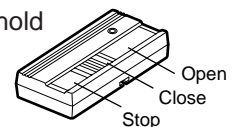
Figure 2

Code programming instructions are also located on the opener panel.

## Open/Close/Stop Operation

The SECURITY+ remote control can be programmed to operate one door using all 3 buttons: the large button will only open the door, the middle button will only close the door, and the third button will stop the door's movement. You may set up this feature as follows:

1. *With the door closed*, press and hold the large remote push button.
2. Press and hold the Lock button on the door control.
3. Press and hold the door control push bar.



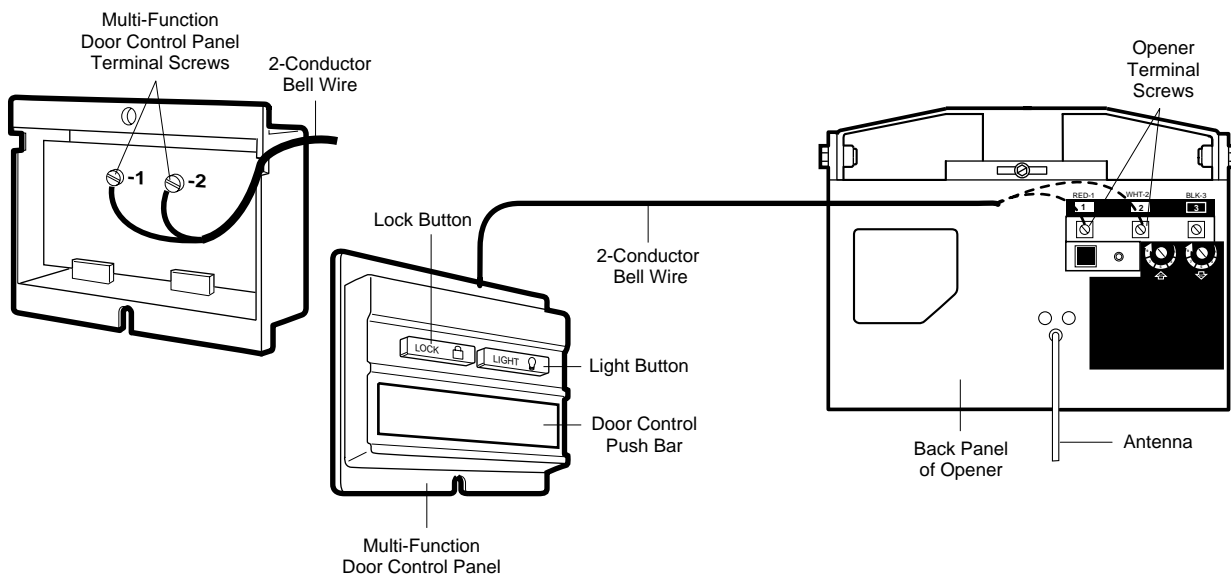
When the opener light flashes, release all buttons. Test by pressing the large (*Open*) button on the remote. The door should open. Press it again while the door is open and nothing should happen. Press the middle (*Close*) button and the door should close. Press the third (*Stop*) button while the door is moving and it should stop immediately.



# SECURITY+ Multi-Function Door Control - Model 58LM (OPTIONAL)

**NOTICE:** To ensure the proper functioning of your new Garage Door Opener, please remove all old or previous push buttons/door control panels.

- Strip 1/4" of insulation from one end of the bell wire; connect the wire to the two screw terminals on the back of the door control panel as follows: white to 2 and white/red to 1. (**NOTE: If "Lock" and "Light" buttons do not function after completing installation, reverse the connections.**)
- **Locate the door control within sight of the door at a minimum height of 5 feet where small children cannot reach, and away from all moving parts of the door and door hardware.** Fasten the Door Control Panel securely with 6ABx1" screws. If installing into drywall, drill 5/32" holes and use the anchors provided.
- Run the bell wire up the wall and across the ceiling to the opener. Use insulated staples to secure the wire in several places. Be careful not to pierce the wire with a staple, thereby resulting in a short.
- Connect the bell wire to the opener terminal screws as follows: white to 2 and white/red to 1.



## Operation of the Multi-Function Door Control Panel

**The Door Control Push Bar:** Press 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.

**Light Feature:** Press the Light button. If the opener light is *off*, it will turn *on*.

If the opener light is on, (even in the 4-1/2 minute automatic cycle) it will turn *off*.

But if you use the Light button to turn the light *on* and then activate the opener, the light will turn *off* after 4-1/2 minutes.

The Light Feature will not turn the opener light off when the door is in motion.

## WARNING

Children operating or playing with a garage door opener can injure themselves or others. *The garage door could close and cause serious injury or death.*

Install the door control (or any additional push buttons) out of the reach of children and away from all moving parts of the door and door hardware, *but where the garage door is visible.* Do not allow children to operate the push button(s) or the remote control transmitter(s).

*A moving garage door could injure someone under it.* Activate the opener only when the door is properly adjusted, you can see it clearly, and there are no obstructions to door travel.

# SECURITY+ Multi-Function Door Control - Model 68LM (OPTIONAL)

**NOTE:** To ensure the proper functioning of your new Garage Door Opener, remove all old or previous push buttons/door control panels.

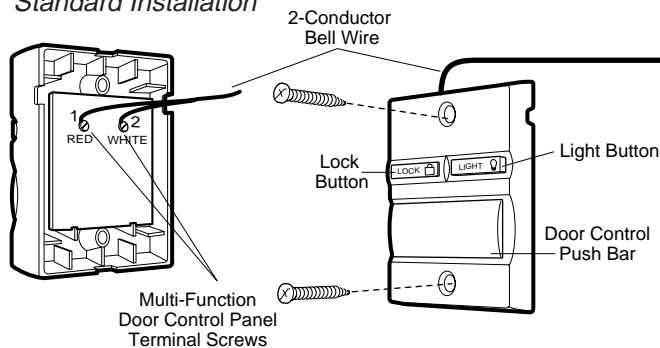
Locate the door control within sight of the door at a minimum height of 5 feet where small children cannot reach, and away from all moving parts of the door and door hardware.

The multi-function door control panel is typically attached directly to the wall, *Figure 1*. For pre-wired installations (as in new home construction) it can be mounted to a standard single gang box, *Figure 2*.

- Strip 1/4" of insulation from one end of the bell wire; connect the wire to the two screw terminals on the back of the door control panel as follows: white to 2 and white/red to 1. (**NOTE: If "Lock" and "Light" buttons do not function after completing installation, reverse the connections.**)
- For standard wall mount, fasten the door control panel securely with 6ABx1-1/4" self-tapping screws. Run the bell wire up the wall and across the ceiling to the opener. Use insulated staples to secure the wire in several places. Be careful not to pierce the wire with a staple, thereby resulting in a short.
- For pre-wired installations, mount the door control to the gang box with the 6-32x1" machine screws provided.
- Connect the bell wire to the opener terminal screws as follows: white to 2 and white/red to 1.

**Figure 1**

*Standard Installation*



## **WARNING**

**DO NOT CONNECT TO LIVE ELECTRICAL WIRING. CONNECT ONLY TO 24 VOLT LOW VOLTAGE WIRES. CONNECTION TO LIVE WIRES OR HIGHER VOLTAGE MAY CAUSE SERIOUS INJURY FROM SHOCK, BURN OR ELECTROCUTION.**

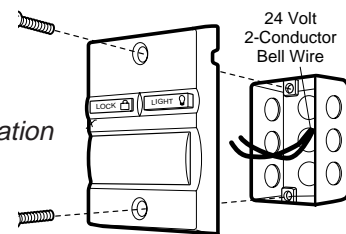
**Children operating or playing with a garage door opener can injure themselves or others. *The garage door could close and cause serious injury or death.***

**Install the door control (or any additional push buttons) out of the reach of children and away from all moving parts of the door and door hardware, *but where the garage door is visible.* Do not allow children to operate the push button(s) or the remote control transmitter(s).**

***A moving garage door could injure someone under it. Activate the opener only when the door is properly adjusted, you can see it clearly, and there are no obstructions to door travel.***

**Figure 2**

*Alternate Installation*



## Operation of the Multi-Function Door Control Panel

**The Door Control Push Bar:** Press 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.

**Light Feature:** Press the Light button. If the opener light is *off*, it will turn *on*.

If the opener light is on, (even in the 4-1/2 minute automatic cycle) it will turn *off*.

But if you use the Light button to turn the light *on* and then activate the opener, the light will turn *off* after 4-1/2 minutes.

The Light Feature will not turn the opener light off when the door is in motion.

**Lock Feature:** Designed to prevent operation of the door from portable remote controls. However, the door will *open* and *close* from the Door Control push bar and from the Keylock and the Keyless Entry Accessories.

**To Activate:** Press and hold the Lock button for 2 seconds. The push bar indicator light will flash as long as the Lock is *on*.

**To Turn Off:** Press and hold the Lock button again for 2 seconds. The indicator light will stop flashing. Normal operation will resume. The Lock feature will also turn off whenever the "Smart" button on the opener end panel is activated.

# SECURITY+ Keyless Entry - Model 67LM (OPTIONAL)

To comply with FCC/IC rules, adjustment or modification of receiver and/or transmitter is prohibited, except for changing the code setting and replacing the transmitter battery. THERE ARE NO OTHER USER SERVICEABLE PARTS.

## Features

For use with any SECURITY+ compatible garage door opener receiver.

**Personalized Code:** Up to 10,000 possible combinations. Code can be easily changed if desired.

**Operation: 12 Volt power supply.** Opener activates when 4-digit code and Enter button is pressed.

If wrong numbers are accidentally pressed, correction can be made immediately. The Enter button will transmit only the last four digits.

The Keypad will blink for 15 seconds after the code is transmitted. During that time the Enter button can be used to stop or reverse the door travel.

A temporary entry code can be added for visitors or service persons. This temporary code can be limited to a programmable number of hours or a programmable number of entries.

## Setting the Personal Entry Code

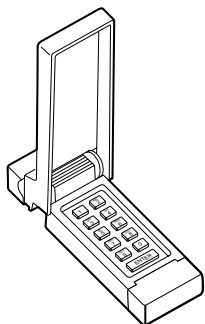
**We recommend that you program your personal code now, before you install the Keyless Entry. Then you can test the reception at the mounting location before you proceed further.**

1. Choose a 4-digit personal entry code using the numbers from 0 to 9 (a number can be used more than once, for example, 4,0, 4,1.)
2. Press the four buttons for the code, then press and *hold* the Enter button. The indicator light on the door opener panel will blink.
3. Press and release the "Smart" button on the door opener panel. After the opener light blinks, release the Enter button.

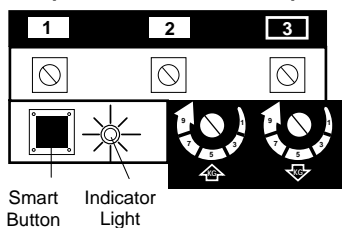
Test by pressing the the code, then press Enter. The door should begin to move.

**You may also program the Keyless Entry from the Multi-Function Door Control, as follows:**

1. *With the door closed*, enter the four digit code desired, then press and hold Enter.
2. Press and hold the light button on the door control.
3. Press and hold the door control push bar.
4. After the opener light blinks, release all buttons.



**Garage Door Opener Receiver (With Smart Button)**



## WARNING

Children operating or playing with a garage door opener can injure themselves or others. *The garage door could close and cause serious injury or death. Do not allow children to operate the door push button(s) or remote control(s).*

*A moving garage door could injure or kill someone under it. Activate the opener only when you can see the door clearly, it is free of obstructions, and is properly adjusted.*

## Installation

Choose a convenient location for installation. It should be at eye level, reachable by the shortest person who will use it, and within sight of the door.

For a one-piece door, choose the optional location shown in the illustration to avoid injury as the door swings out.

Open the keypad cover and remove the battery compartment screw and cover. Take out the battery.

Hold keypad firmly with the cover half open so both top and bottom mounting holes are visible. Use a punch to mark each hole. Drill two 1/8" pilot holes. Fasten securely with screws provided.

Insert the plug provided into the top hole to cover the fastening screw. Reinstall the battery, matching the + and - markings on the battery compartment. Refasten the compartment cover.

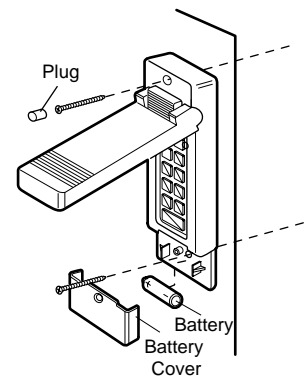
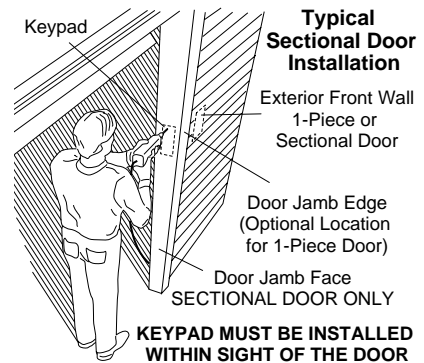
## Changing the Personal Entry Code

Press the four buttons for the present personal entry code, then press and hold the 0 button, then press Enter.

The opener light will blink twice. Release the buttons. Press the new 4-digit code you have chosen, then press Enter.

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

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



# Having a Problem?

Situation	Probable Cause & Solution
<i>The opener doesn't operate from either the Door Control or the remote control:</i>	<ol style="list-style-type: none"><li>1. Does the opener have electric power? Plug a lamp into the outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)</li><li>2. Have you disabled all door locks? Review installation instruction warnings on page 7.</li><li>3. Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction.</li><li>4. The garage door spring may be broken. Have it replaced.</li><li>5. Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again.</li></ol>
<i>Opener operates from the remote, but not from Door Control:</i>	<ol style="list-style-type: none"><li>1. Is the door control lit? If not, remove the bell wire from the opener terminals. Short the red and white terminals by touching both terminals at the same time with a piece of wire. If the opener runs, check for a faulty wire connection at the door control, a short under the staples, or a broken wire.</li><li>2. Are the wiring connections correct? Review Step 6, page 13.</li></ol>
<i>The door operates from the Door Control, but not from the remote control:</i>	<ol style="list-style-type: none"><li>1. Is the door push button flashing? If your model has the Lock feature, turn it <i>off</i>.</li><li>2. Your opener needs to re-learn a remote control code. Refer to instructions on the opener panel.</li><li>3. Does the battery test light glow when the remote control push button is pressed? If not, replace the battery.</li><li>4. Program the receiver to match the remote control code.</li><li>5. Repeat the receiver programming procedure with all remote controls.</li></ol>
<i>The remote control has short range:</i>	<ol style="list-style-type: none"><li>1. Check the battery test light. If the light is dim, replace the battery.</li><li>2. Change the location of the remote control in your car.</li><li>3. Check to be sure the antenna on the side or back panel of opener extends fully downward. <b>Install Antenna Kit, Part No. 41A3504, to increase range.</b></li><li>4. Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage siding.</li></ol>
<i>Opener noise is disturbing in living quarters of home:</i>	If operational noise is a problem because of proximity of the opener to the living quarters, the Vibration Isolator Kit 41A3263 can be installed. This kit was designed to minimize vibration to the house and is easy to install.
<i>The garage door opens and closes by itself:</i>	<ol style="list-style-type: none"><li>1. Be sure that all remote control push buttons and battery indicator lights are off.</li><li>2. Remove the bell wire from the door control terminals and operate from the remote only. If this solves the problem, the door control is faulty (replace), or there is an intermittent short on the wire between the door control and the opener.</li><li>3. Clear memory and reprogram all remote controls.</li></ol>
<i>The door doesn't open completely:</i>	<ol style="list-style-type: none"><li>1. If the door has been working properly but now doesn't open all the way, increase the <i>up force</i>. See page 22.</li><li>2. Is something obstructing the door? Remove the obstruction or repair the door.</li><li>3. If door opens at least 5 feet, the travel limits may need to be increased. One turn equals 2 inches of travel. See page 21.</li></ol> <p><b>Repeat the safety reverse test after the adjustment is complete.</b></p>
<i>The door stops but doesn't close completely:</i>	Review the travel limits adjustment procedures on page 21. <b>Repeat the safety reverse test after any adjustment of door arm length, close force or down limit.</b>



## Having a Problem? *(continued)*

### Situation

### Probable Cause & Solution

---

***The door opens but won't close:***

1. If the opener light blinks, check the safety reversing sensor. See page 18.
  2. If the opener light does not blink and it is a new installation, check the down force. See Adjustment Step 2, page 22. For an existing installation, see below.  
***Repeat the safety reverse test after the adjustment is complete.***
- 

***The door reverses for no apparent reason and opener light doesn't blink:***

1. Is something obstructing the door? Pull the manual release handle. Operate the door manually. If it is unbalanced or binding, call for professional garage door service.
  2. Clear any ice or snow from the garage floor area where the door closes.
  3. Review the force adjustment procedures on page 22.
  4. If door reverses in the *fully closed* position, decrease the travel limits (page 21).  
***Repeat safety reverse test after adjustments to force or travel limits. The need for occasional adjustment of the force and limit settings is normal. Weather conditions in particular can affect door travel.***
- 

***The door reverses for no apparent reason and opener light blinks for 5 seconds after reversing:***

Check the safety reversing sensor. Remove any obstruction or align the receiving eye. See page 18.

---

***The opener light:***

***. . . doesn't turn on:***

Replace the light bulb (75 watts maximum). Use a *standard neck* garage door opener bulb if regular bulb burns out.

***. . . doesn't turn off:***

Is the Light feature *on*? Turn it *off*.

---

***The opener strains or maximum force is needed to operate door:***

The door may be out of balance or the springs are broken. **Close the door** and use the manual release to disconnect the trolley. Open and close the door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, disconnect the opener and call a professional garage door serviceman.  
***Do not increase the force to operate the opener.***

---

***The opener motor hums briefly, then won't work:***

1. The garage door springs are broken. See above.
  2. If the problem occurs on the first operation of the opener, door may be locked. *Disable the door lock*. If the chain was removed and reinstalled, the motor may be out of phase. Remove the chain; cycle the motor to the down position. Observe the drive sprocket. When it turns in a clockwise direction and stops in the down position, reinstall the chain.  
***Repeat the safety reverse test after the adjustment is complete.***
- 

***The opener won't operate due to power failure:***

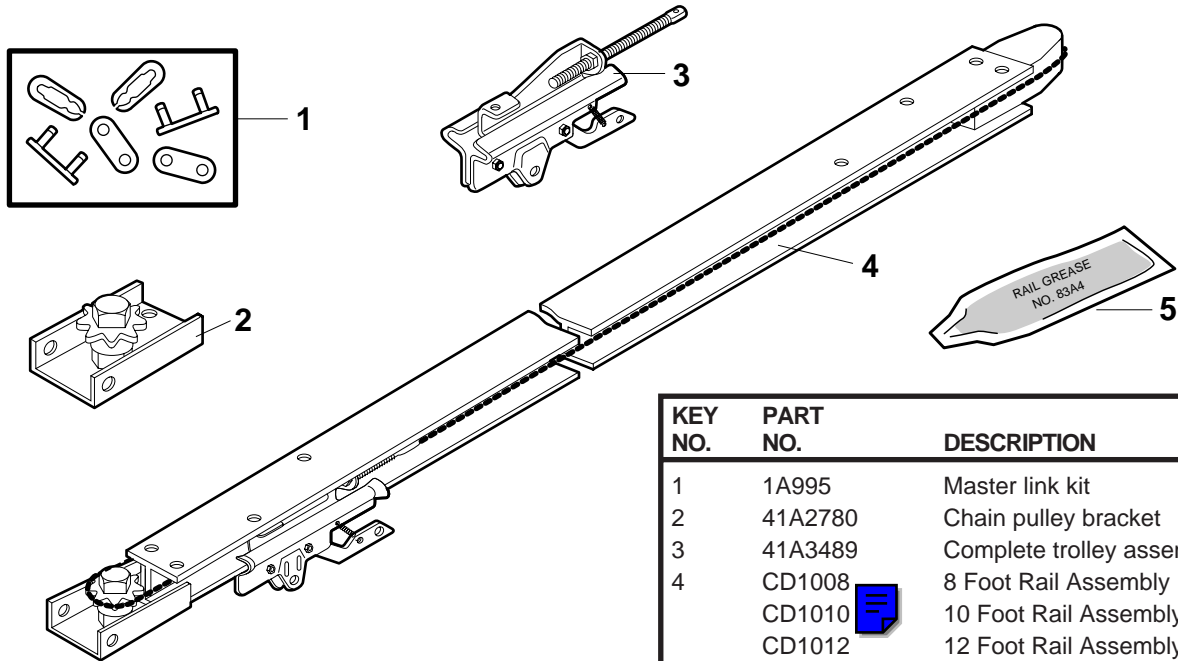
1. Use the manual release to disconnect the trolley. The door can be opened and closed manually. When the power is restored, press the Door Control push button and trolley will automatically reconnect (unless trolley is in lockout position.) See page 25.
  2. The Outside Quick Release accessory (for use on garages with no service door) disconnects the trolley from outside the garage in case of power failure.
- 

***The chain droops or sags:***

It is normal for the chain to droop slightly in the closed door position. Use the manual release rope and handle to disconnect the trolley. If the chain returns to the normal height when the trolley is disengaged and the door reverses on a 2x4 laid flat, no adjustments are needed. (See page 7.)

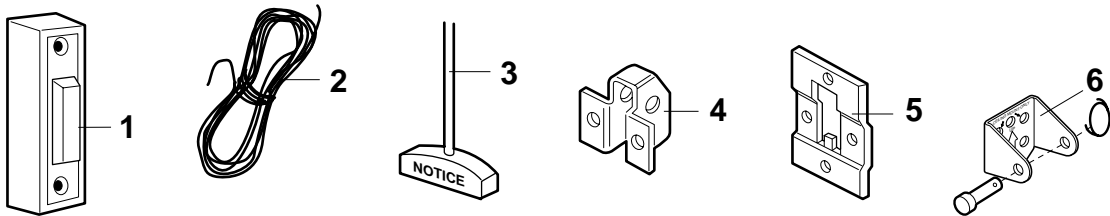
# Repair Parts

## Rail Assembly Parts

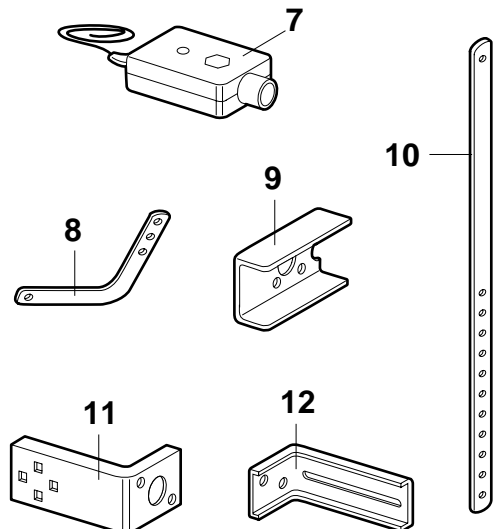


KEY NO.	PART NO.	DESCRIPTION
1	1A995	Master link kit
2	41A2780	Chain pulley bracket
3	41A3489	Complete trolley assembly
4	CD1008	8 Foot Rail Assembly
	CD1010	10 Foot Rail Assembly
	CD1012	12 Foot Rail Assembly
5	83A4	Rail grease

## Installation Parts



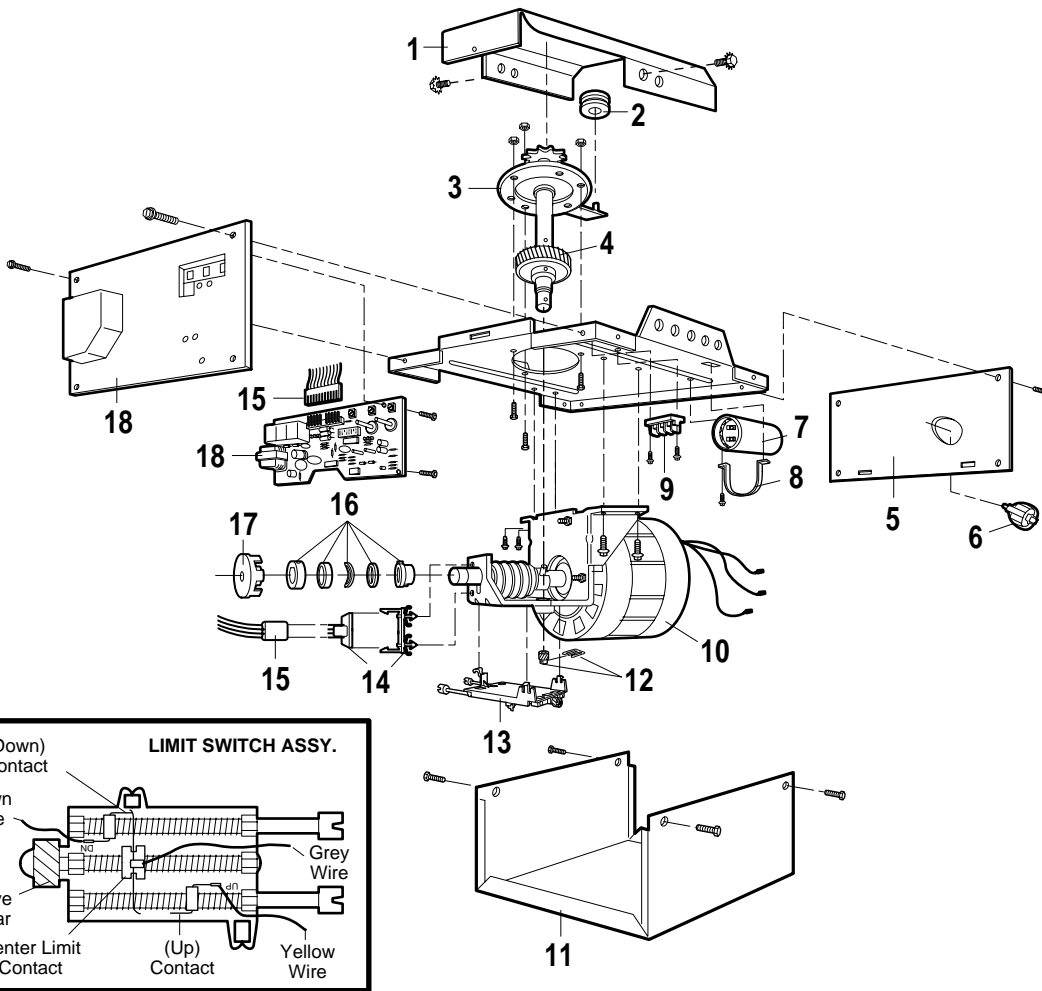
KEY NO.	PART NO.	DESCRIPTION
1	41A4166	Door control push button
2	217A238	2-conductor bell wire, white & white/red
3	41A2828	Manual rope & handle assembly
4	12B374	Door bracket
5	12B380	Door bracket plate
6	41A4353	Header bracket w/clevis pin & fastener
7	41A4373A	Safety sensor kit (receiving and sending eyes) with 3' 2-conductor bell wire attached
8	178B35	Curved door arm section
9	12B483	C Wrap bracket
10	178B34	Straight door arm section
11	12B484	Square hole mounting bracket
12	12B485	Slotted mounting bracket
	41A3535	Installation hardware bag (see page 5).
	41A4116	Safety sensor hardware
	114A2296	Owner's manual





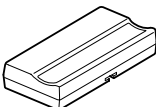
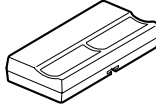
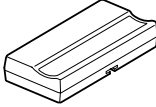
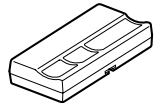



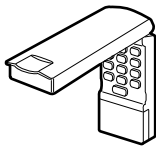
# Repair Parts

## Opener Assembly Parts

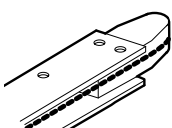

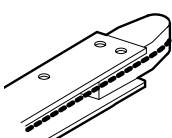
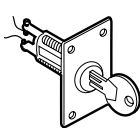
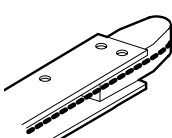
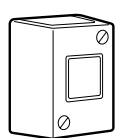
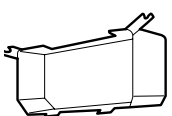


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	41C5069	Rail support bracket assembly kit	10	41D4509	Replacement motor & bracket assembly
2	144B18	Pulley (Chain)			<b>Complete with:</b> Motor, worm, bracket, bearing assembly
3	41C4470	Gear and sprocket assy. <b>Complete with:</b> Spring washer Thrust washer Retaining washer Bearing plate Roll pins (2) Drive gear and worm gear Helical gear w/retainer and grease Sprocket shaft plate with screws	11	41A4475	Cover
4	41A2817	Drive/worm gear kit w/grease Roll pins (2)	12	41A2818	Helical gear & retainer w/grease
5	143D146	Front end panel	13	41D3452	Limit switch assembly
6	175B88M	Light socket	14	41C4398A	RPM sensor assembly
7	30B432	Capacitor	15	41C4246	Wire harness assembly w/plug
8	12A461	Capacitor bracket	16	41A2826	Shaft bearing kit
9	41A3150	Terminal block with screws	17	41A2822A	Interruptor cup assembly
			18	41A5021-10	Receiver logic board assembly <b>Complete with:</b> Logic board, end panel with all labels <b>NOT SHOWN</b>
				41A2825	Opener assembly hardware kit (includes screws not designated by a number in illustration).

## Accessories Available for your Opener

<p><b>Model 81LM</b></p> 	<p><b>“Smart” Remote Control:</b> Includes visor clip.</p>	<p><b>Model 972LM</b></p> 	<p><b>SECURITY+ 2-Channel Remote Control:</b> Includes visor clip.</p>
<p><b>Model 971LM</b></p> 	<p><b>SECURITY+ Single-Function Remote Control:</b> Includes visor clip.</p>	<p><b>Model 973LM</b></p> 	<p><b>SECURITY+ 3-Channel Remote Control:</b> Includes visor clip.</p>
<p><b>Model 58LM</b></p> 	<p><b>Multi-Function Door Control Panel:</b> Provides a Lock Feature which prevents operation of garage door opener from portable remotes and a Light Feature for constant light.</p>	<p><b>Model 970LM</b></p> 	<p><b>SECURITY+ 3-Channel Mini Remote Control:</b> With key ring and Velco fastening strip.</p>
<p><b>Model 68LM</b></p> 	<p><b>Multi-Function Door Control Panel:</b> For pre-wired installation to a standard single gang box, or mounted directly to the wall. Features same as 58LM.</p>	<p><b>Model 976LM</b></p> 	<p><b>SECURITY+ Keyless Entry:</b> Enables homeowner to operate garage door opener from outside by entering code on specially designed keyboard. Also can add a temporary pass code for visitors or service persons. This temporary code can be limited to a programmable number of hours or entries.</p>

## Other Products For Your Opener

<p><b>Model CD1008</b></p> 	<p><b>8 foot Complete Rail and Chain Assembly:</b> To allow an 8 foot door to open fully.</p>	<p><b>Model 1702</b></p> 	<p><b>Outside Quick Release:</b> <i>Required</i> for a garage with NO access door.</p>
<p><b>Model CD1010</b></p> 	<p><b>10 foot Complete Rail and Chain Assembly:</b> To allow a 10 foot door to open fully.</p>	<p><b>Model 59</b></p> 	<p><b>Outside Keylock:</b> Opens the garage door automatically from outside when remote control is not handy.</p>
<p><b>Model CD1012</b></p> 	<p><b>12 foot Complete Rail and Chain Assembly:</b> To allow a 12 foot door to open fully.</p>	<p><b>180C139</b></p> 	<p><b>NEMA 1 Push Button:</b> Heavy Duty Door Control Push Button (one button).</p>
<p><b>108D36</b></p> 	<p><b>Light Lens Cover:</b> Attractive lens cover protects light bulbs and diffuses light to every corner of your garage.</p>		

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OUR LARGE SERVICE ORGANIZATION  
SPANS AMERICA AND NORTH AMERICA

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

**1-800-528-2806**

HOURS: (Mountain Std. Time)  
6:00 A.M. TO 6:00 P.M. - Monday through Friday  
7:00 A.M. TO 3:00 P.M. - Saturday  
Closed Sunday

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For professional installation, parts and service,  
contact your local LIFTMASTER/ CHAMBERLAIN  
dealer. Look for him in the Yellow Pages, or call our  
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# 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  
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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  
6020 S. Country Club Rd.  
Tucson, Arizona 85706

SERVICE INFORMATION  
TOLL FREE NUMBER:  
**1-800-528-2806**

## LIFTMASTER GARAGE DOOR OPENER ONE-YEAR LIMITED WARRANTY

Chamberlain/LiftMaster warrants to the first retail purchaser of this product that it will be free from any defect in materials and/or workmanship for a period of twelve full months from the date of purchase. The product must be used in complete accordance with Lift-Master's instructions for installation, operation and care.

### LIMITED WARRANTY ON MOTOR

**Model ATS 211R:** The motor is warranted to be free from any defect in materials and/or workmanship for a period of 12 full months (1 year) from the date of purchase.

This warranty does not cover non-defect damage, damage caused by unreasonable use (including abuse, failure to provide reasonable and necessary maintenance, or any alterations to the product), labor charges for dismantling or reinstalling of a repaired or replaced unit or replacement batteries.

If, during the warranty period, the product appears as though it may be defective, **CALL OUR TOLL FREE SERVICE NUMBER BEFORE DISMANTLING IT (1-800-528-2806)**. If the product is then alleged to be defective, please send it pre-paid and insured to our Service Center to obtain warranty repair. You will be advised of shipping instructions when you call the number listed above.

Please be sure to include a brief description of the problem and a dated proof-of-purchase receipt with any product that is returned for warranty repair.

Product under warranty, which upon receipt by Chamberlain/LiftMaster is determined to be defective in materials and/or workmanship, will be repaired or replaced (Chamberlain's option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory rebuild parts at Chamberlain's option.

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