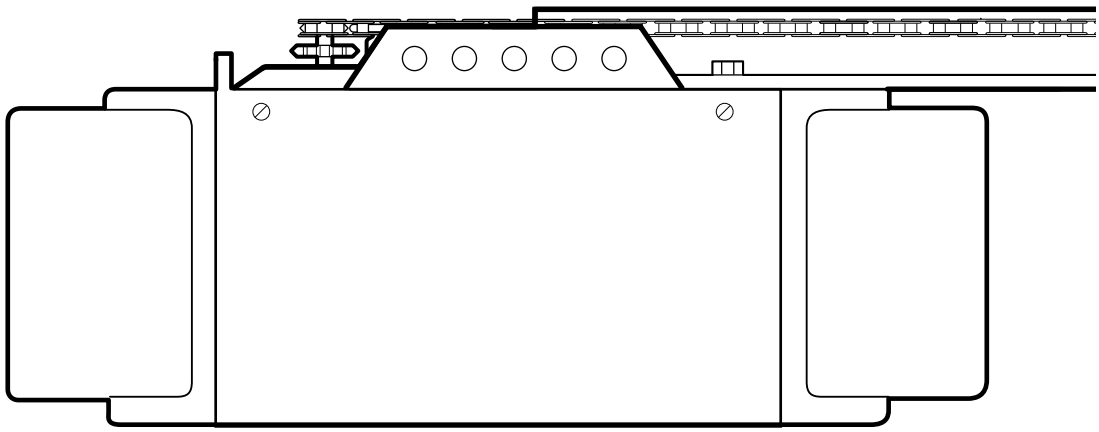
ANAHEIM GARAGE DOORS **ANAHEIM, CA**

Anaheim Door

Complies with UL 325 Regulations effective January 1, 1993

Garage Door Opener Owner's Manual

FOR RESIDENTIAL USE ONLY



MODEL AD1200 – 1/2HP
MODEL AD800 – 1/3HP

- **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 and adjustment of the opener are required to ensure safe operation.**
- **The model number label is located under the light lens on the front panel of your opener.**

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.*

Mechanical

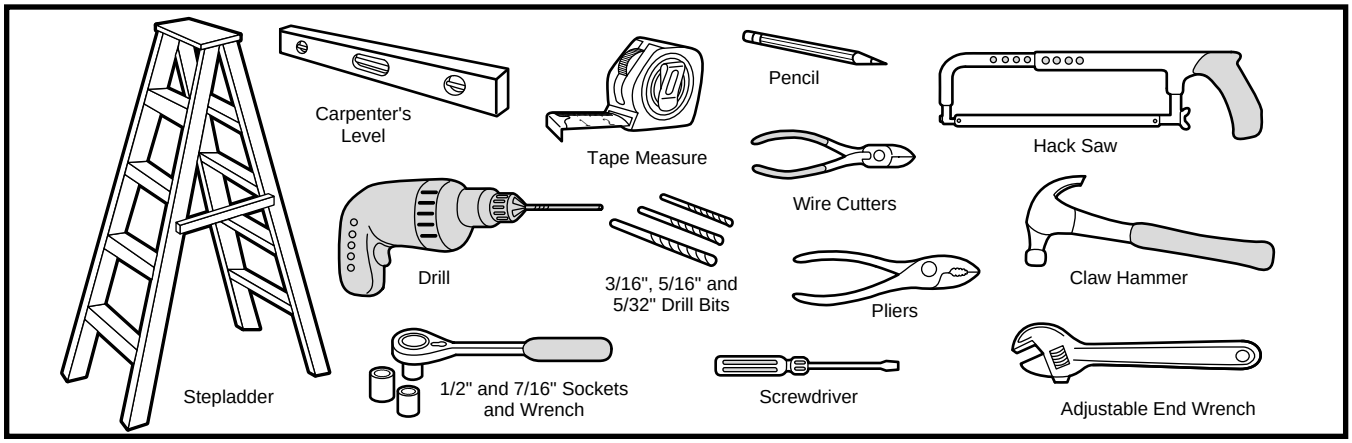
Electrical

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.*

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.**

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

CAUTION

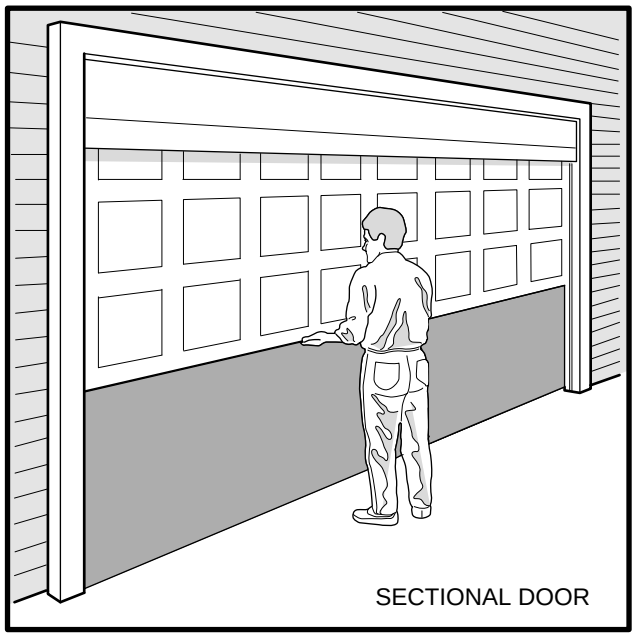
To avoid damage to the garage door and opener, disable locks before installing and operating the opener. Use a wood screw or nail to hold locks in the "open" (unlocked) position.

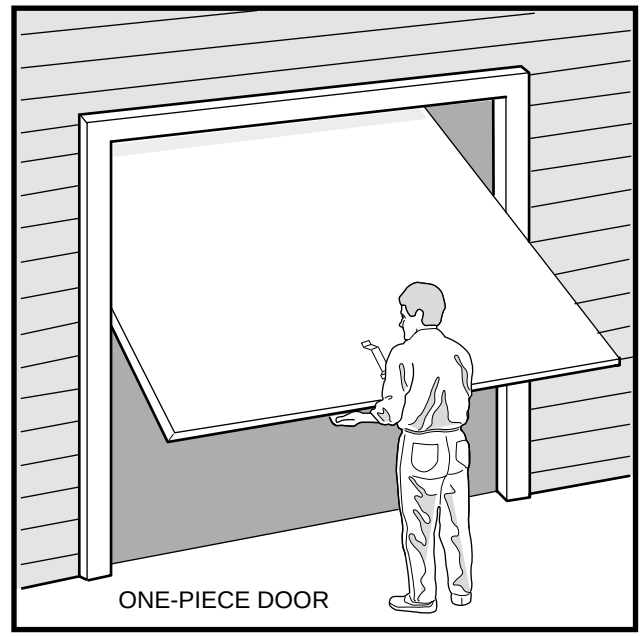
Operation at other than 120V 60 Hz will cause opener malfunction and damage.

Test your Door

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

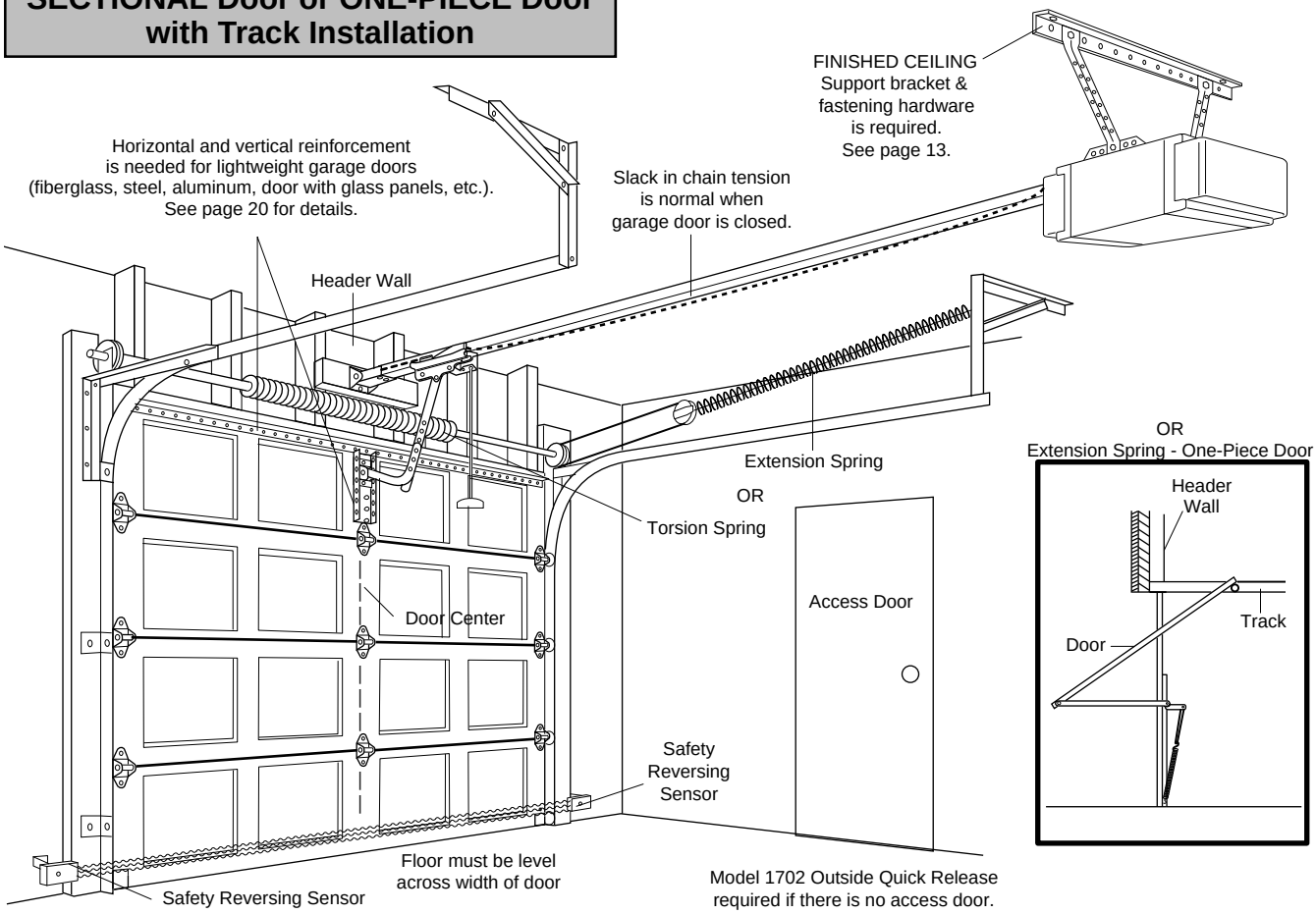
- Lift the door about halfway as shown. Release the door. It should stay in place, supported entirely by its springs.
- Raise and lower the door to see if there is any binding or sticking.


SECTIONAL DOOR

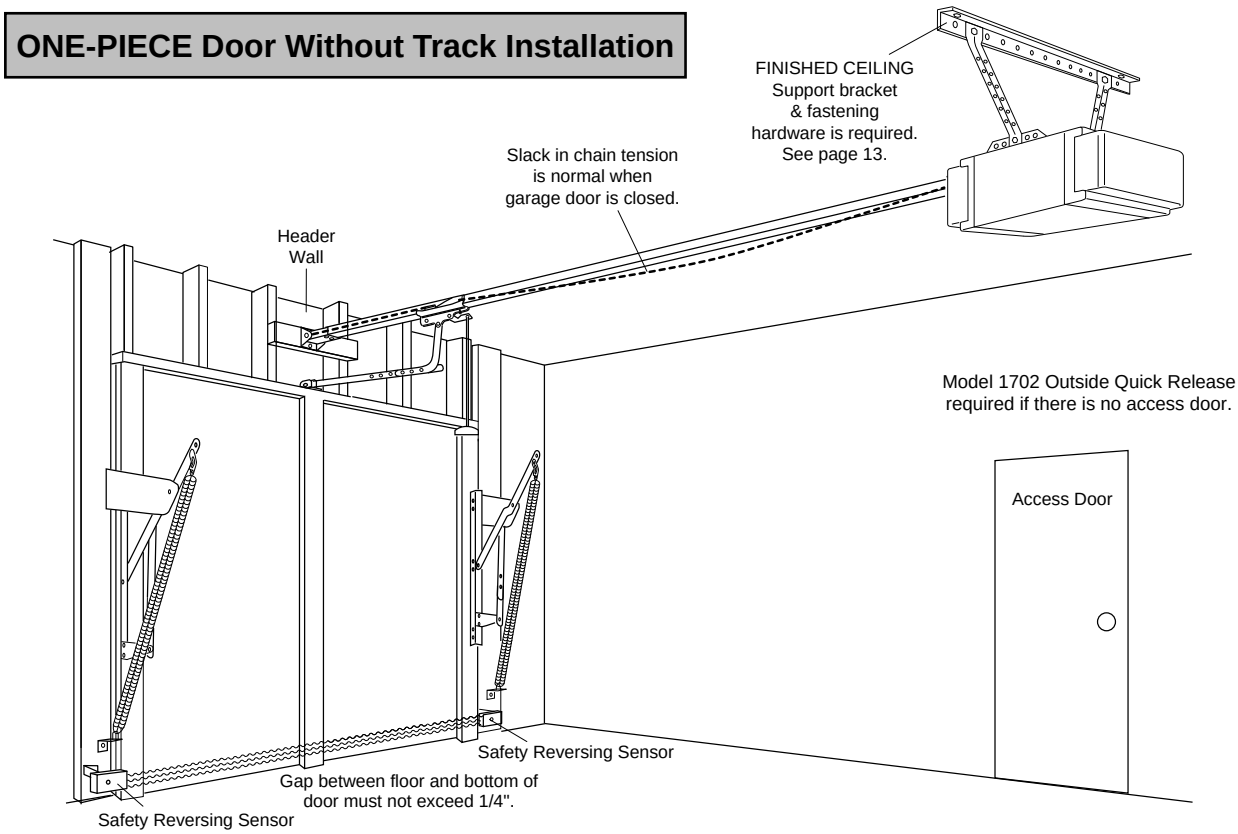

ONE-PIECE DOOR

Before you begin, survey your garage area to see whether any of the conditions below apply to your installation.

SECTIONAL Door or ONE-PIECE Door with Track Installation



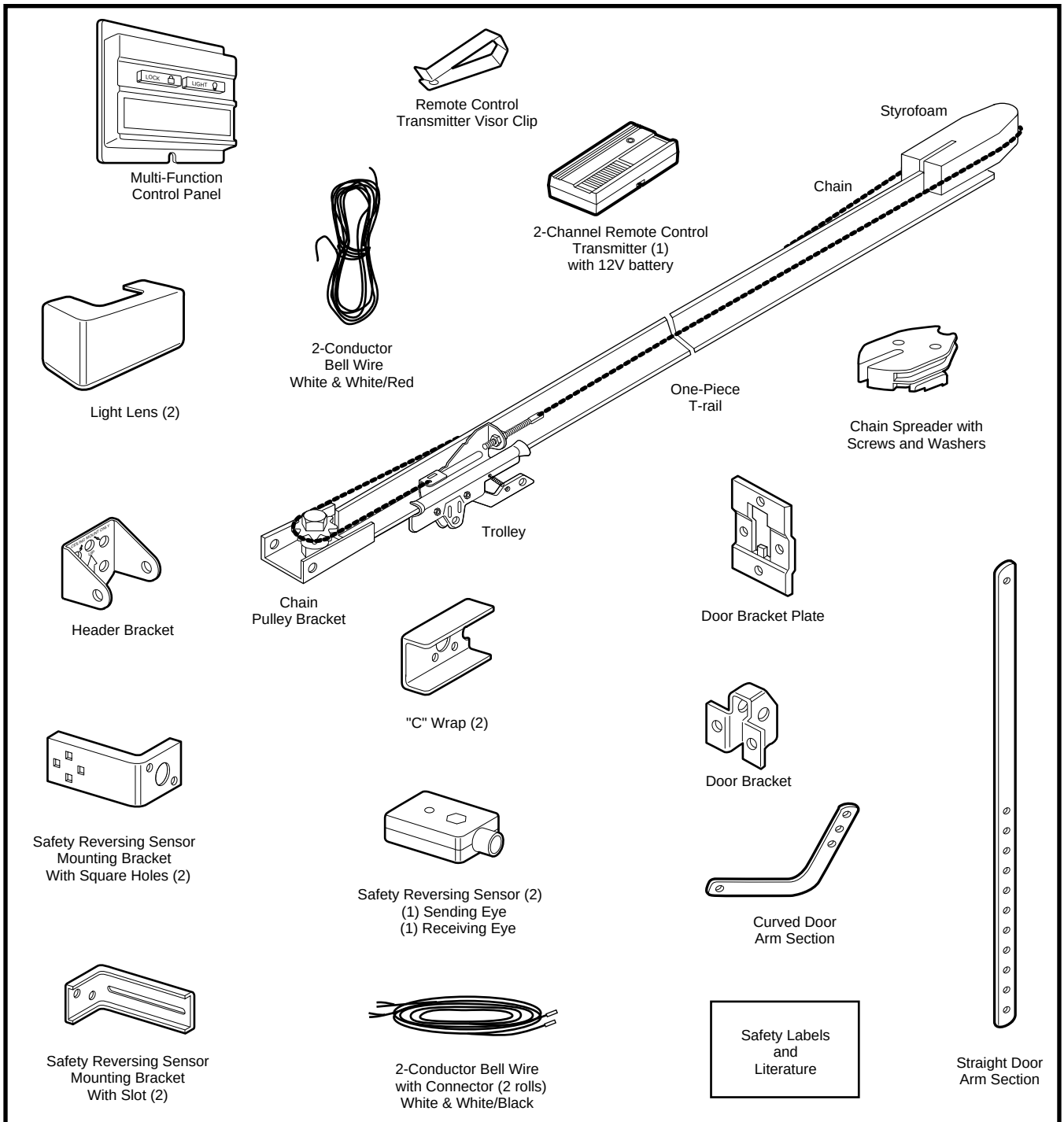
ONE-PIECE Door Without Track Installation



You may find it helpful to refer back to this page as you proceed with the installation of your 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 also listed below.



Installation Hardware		Safety Reversing Sensor Installation Hardware
Hex Screw 5/16"-18x7/8" (4) Hex Screw #8x3/8" (2) Lag Screw 5/16"-18x1-7/8" (4) Carriage Bolt 5/16"-18x2-1/2" (2) Clevis Pin 5/16"x2-3/4" (1) Clevis Pin 5/16"x1" (2) Nut 5/16"-18 (6) Lock Washer 5/16" (6)	Screw 6ABx1" (2) Insulated Staples (10) Ring Fastener (3) Handle Dry Wall Anchors (2) Rail Grease Rope	Lag Screw 1/4x1-1/2" (4) Hex Screw 1/4-20x1-1/2" (2) Carriage Bolts 1/4"-20x1/2" (4) Screw #10 - 32x3/8" (4) Lock Nut 1/4"-20 (4) Lock Nut #10x32 (4) Wing Nut (2) Insulated Staples (20)

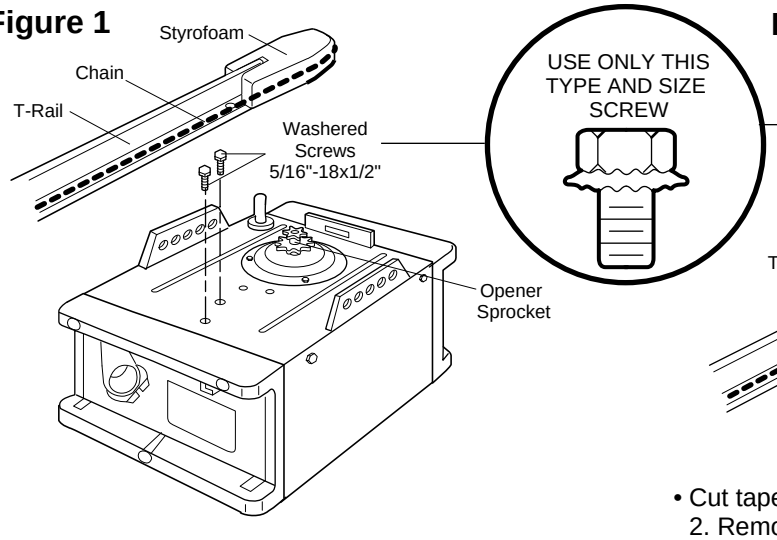
Assembly Step 1

Fasten the T-Rail to the Opener, Attach the Chain Spreader and Re-Install the Chain

CAUTION

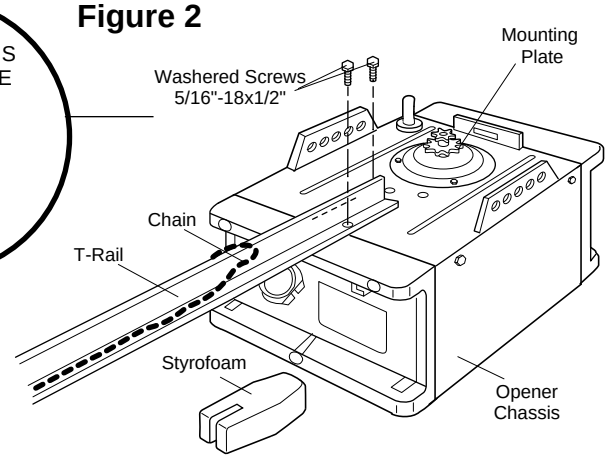
To fasten rail, use only those screws mounted in the top of the opener. Any other screws will cause serious damage to the opener.

Figure 1



- 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. See Figure 1.
- Align T-rail and styrofoam over opener sprocket.

Figure 2

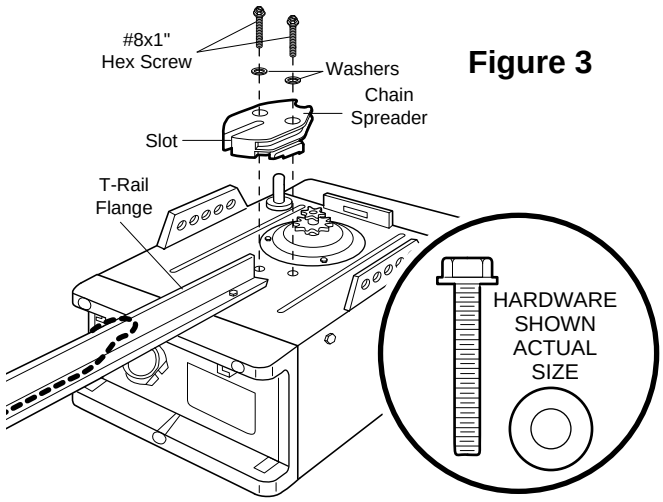


- Cut tape from T-rail, chain and styrofoam. See Figure 2. Remove styrofoam and pull the chain back (away from mounting plate).
- Fasten the rail with the (2) washered screws previously removed. Tighten securely.

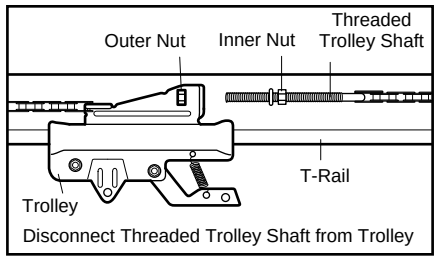
Remember to use only these screws! Any other screws will cause serious damage to the opener.

- Line up the holes in the chain spreader with the holes in the opener. See Figure 3. The slot in the chain spreader must fit over the T-rail flange.
- Securely fasten the chain spreader with the hardware provided.

Figure 3



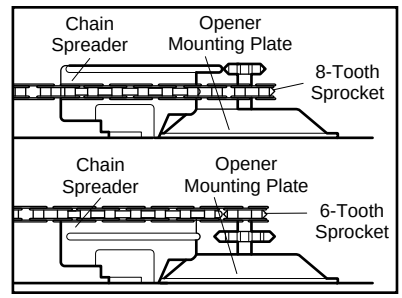
- Separate the trolley threaded shaft from the trolley. Loosen the inner nut and lock washer, then remove the outer nut.



WARNING

Serious injury can result if fingers become entangled in moving opener sprocket. Attach sprocket cover securely. Never operate opener while your hand is near the opener sprocket.

- Guide the chain around the groove in the chain spreader (select the 8-tooth sprocket for sectional doors or the 6-tooth sprocket for one piece doors) as shown.



- Continue dispensing the chain forward to the trolley. See Figure 4. Reconnect the trolley threaded shaft to the trolley. Proceed to page 7 for chain tensioning instructions.

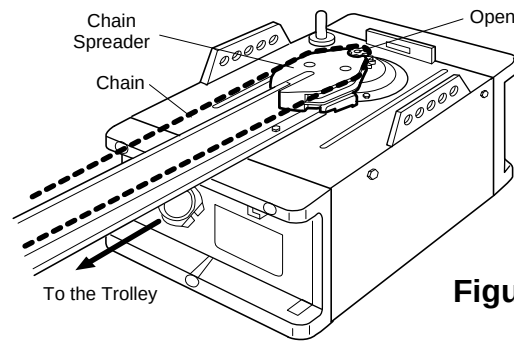


Figure 4

Assembly Step 2

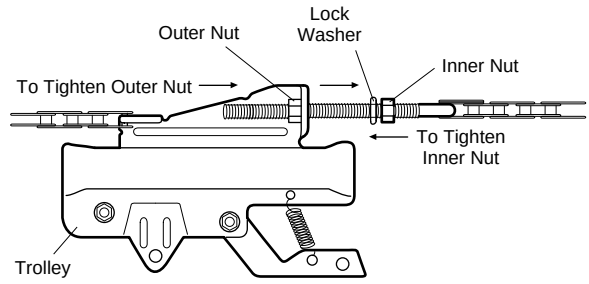
Tighten the Chain

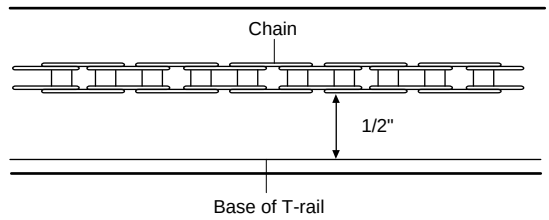
- Spin the inner nut and lock washer down the threaded shaft, away from the trolley.
- To tighten the chain, turn outer nut in the direction shown. **As you turn the nut, keep the chain from twisting.**
- When the chain is approximately 1/2" above the base of the T-rail at its midpoint, re-tighten the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

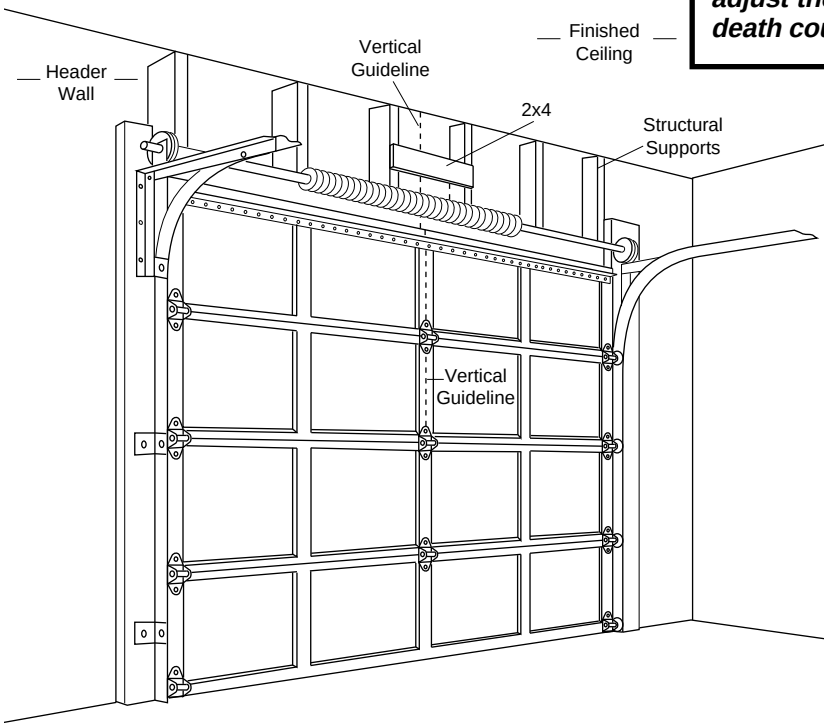
1. **READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS**
2. **Install only on a properly balanced and lubricated garage door. *An improperly balanced door could result in severe injury or death.* Repairs to cables, spring assemblies and other hardware must be made by a professional service person before 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

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

SECTIONAL Door and ONE-PIECE Door With Track



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 26). *The door might not reverse when required, and could cause serious injury or death.*

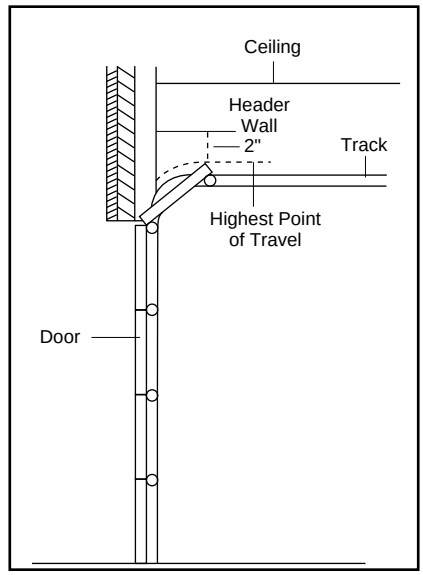
The garage door springs, cables, pulleys, brackets and their hardware are under extreme tension. *Do not attempt to loosen, move or adjust them yourself. Serious personal injury or death could result.* Call for garage door service.

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

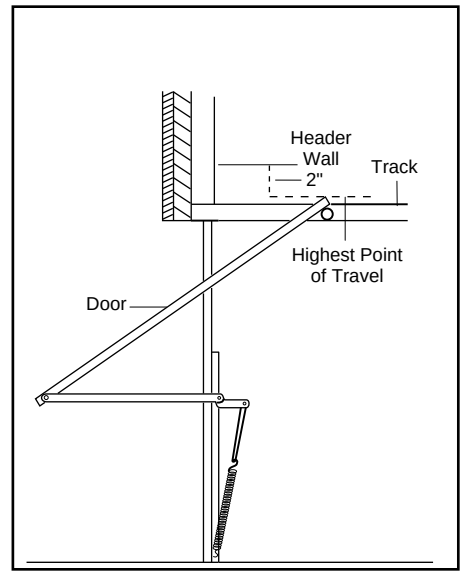
Remember, you can fasten the header bracket within 2 feet to the left or right of the door center *only* if a torsion spring or center bearing plate is in the way; or you can attach it to the ceiling (refer to page 10) when clearance is minimal. (It may be mounted on the wall upside down if necessary, 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 and on page 9.

- 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.



Sectional door with curved track



One-piece door with horizontal track

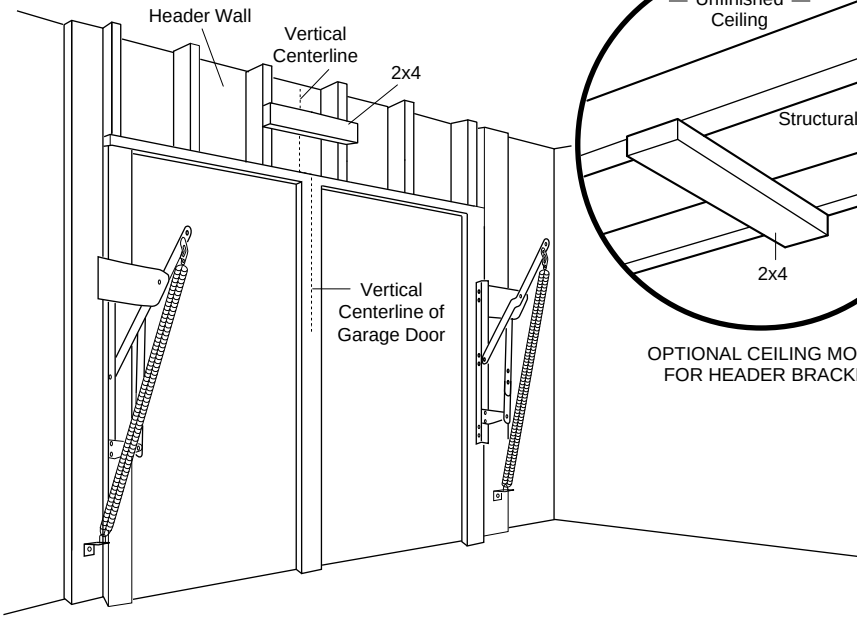
Proceed to Step 2, page 10.

ONE-PIECE Door Without Track

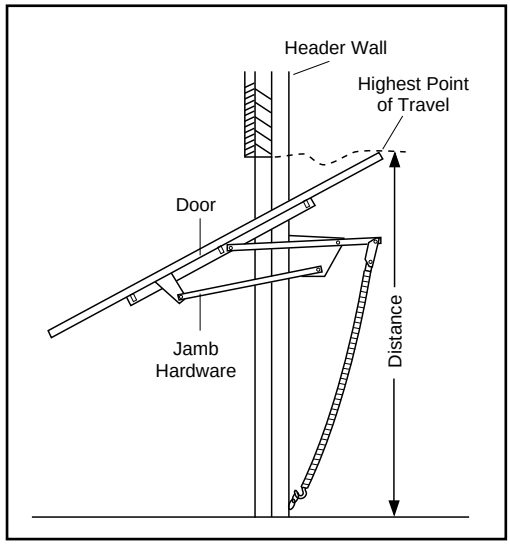
Read the Safety Instructions on page 8. They also apply to doors without tracks.

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

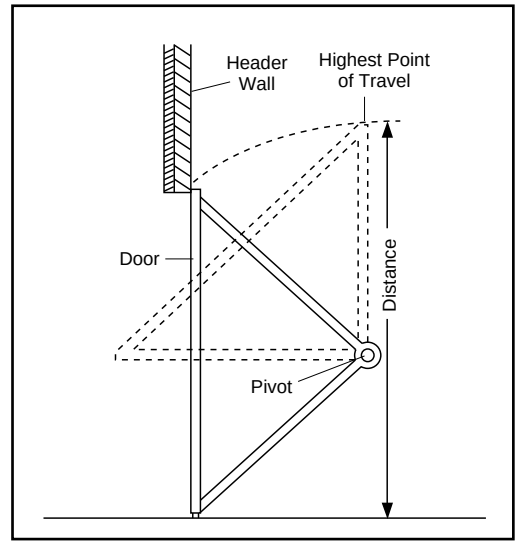
  If headroom clearance is minimal, you can install the header bracket on the ceiling. See page 10.
- *If you need to install the header bracket on a 2x4 (on wall or ceiling), use lag screws (not supplied) to securely fasten the 2x4 to structural supports as shown.*



OPTIONAL CEILING MOUNT FOR HEADER BRACKET



One-piece door without track
Jamb Hardware



One-piece door without track
Pivot Hardware

- Open your door to the highest point of travel as shown. Measure the distance from the top of the door to the floor. Subtract the actual height of the door. Add 8" to the remainder. (See Example).
- Close the door and draw an intersecting horizontal line on the header wall at the determined height.

If the total number of inches exceeds the height available in your garage, use the maximum height possible, or refer to page 10 for ceiling installation.

EXAMPLE

Distance from top of door (at highest point of travel) to floor	92"
Actual height of door	-88"
Remainder	4"
Add	+8"
Bracket height on header wall	=12"

(Measure UP from top of CLOSED door.)

Proceed to Step 2, page 10.

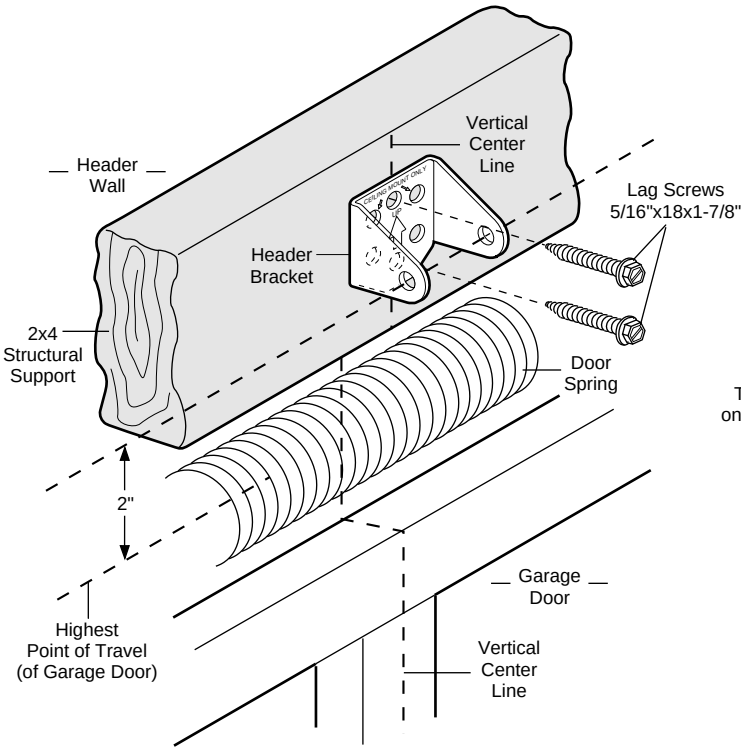
Installation Step 2

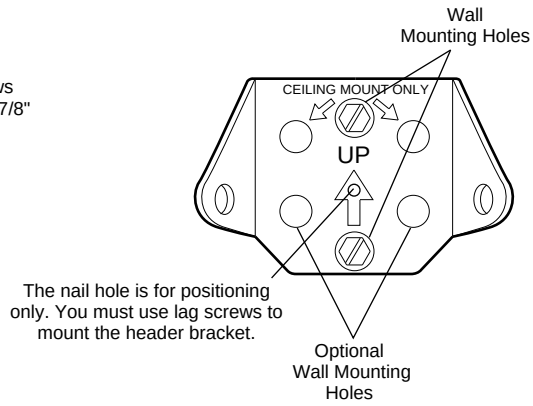
Install the Header Bracket

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.

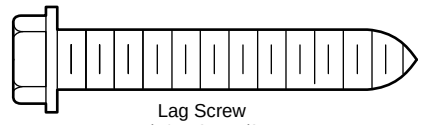
Fasten the Header Bracket to the Wall

- 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.



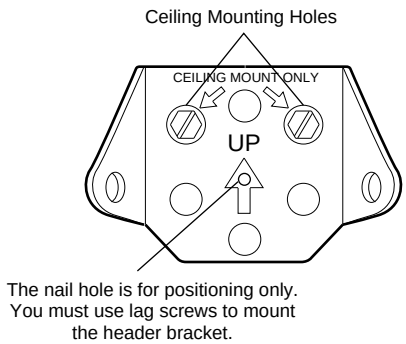


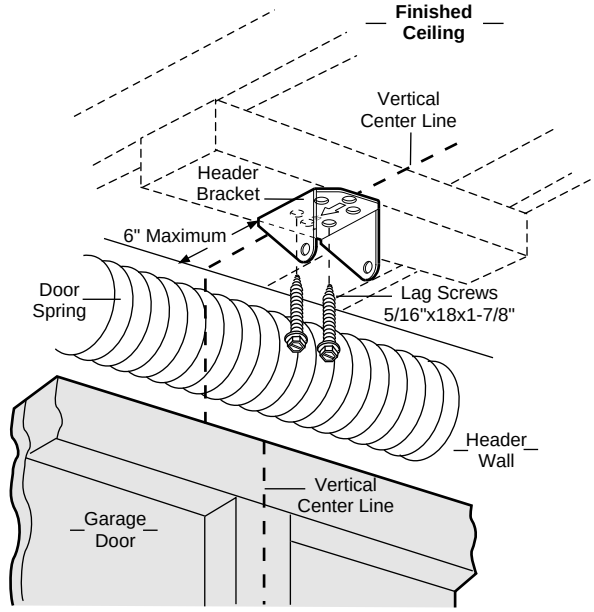
Hardware Shown Actual Size



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.





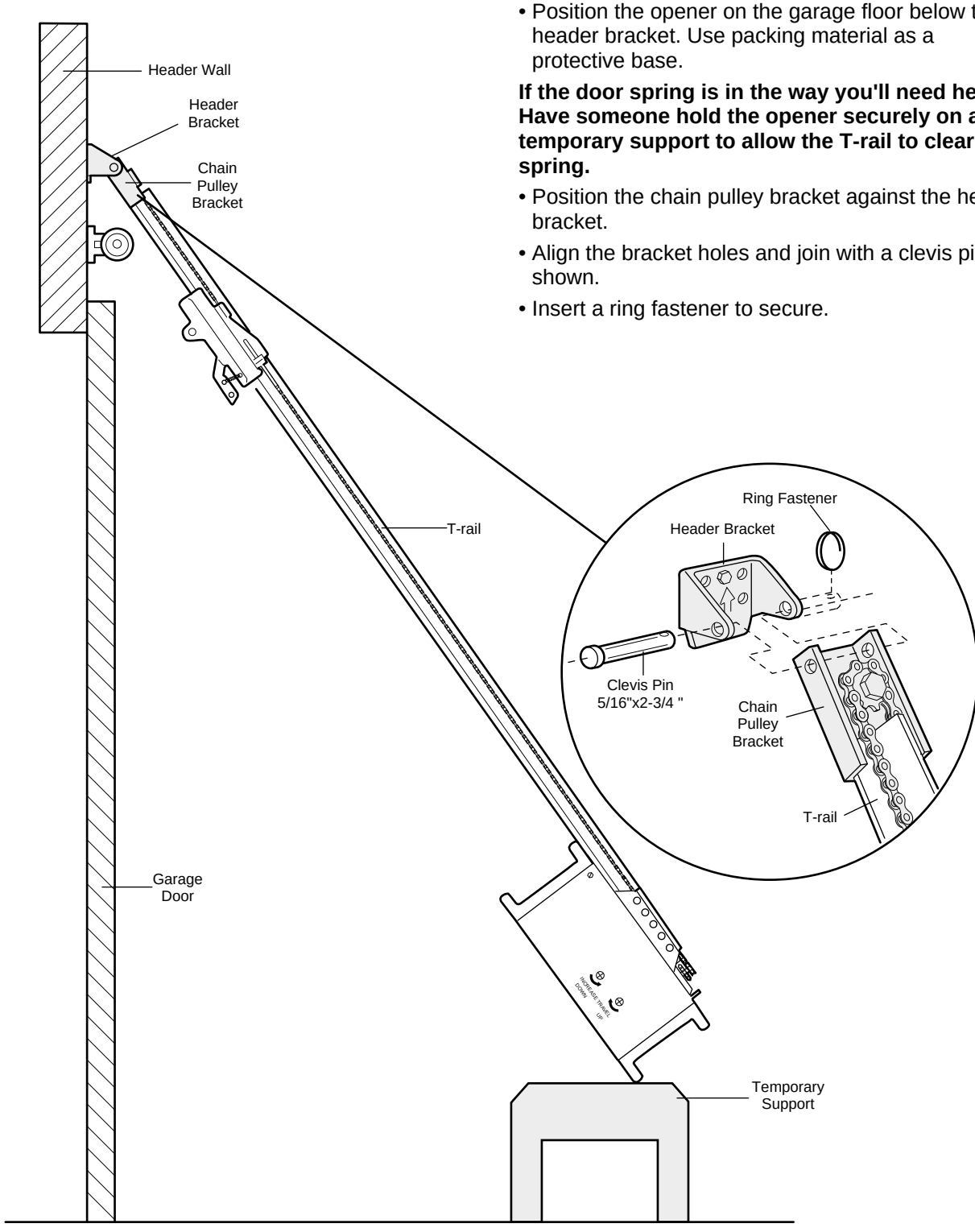
Installation Step 3

Attach the T-rail to the Header Bracket

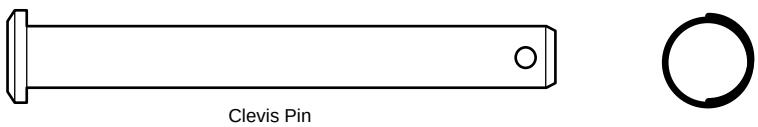
- Position the opener on the garage floor below the header bracket. Use packing material as a protective base.

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 T-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"x2-3/4"

Ring Fastener

Installation Step 4

Position the Opener

Follow instructions which apply to your door type as illustrated.

CAUTION

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

SECTIONAL Door & ONE-PIECE Door with Track

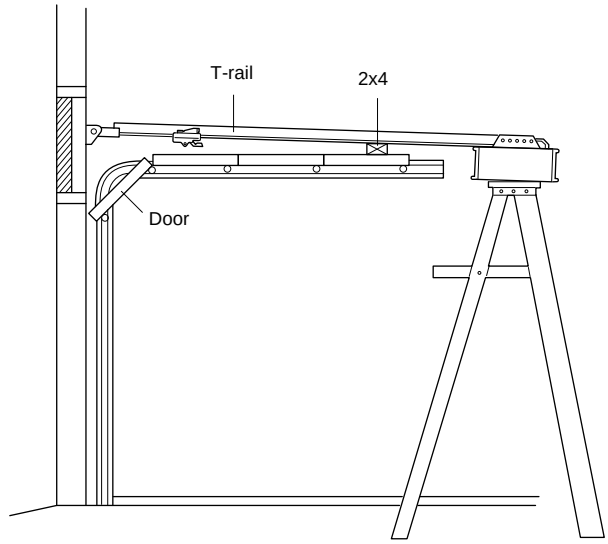
A 2x4 laid flat is convenient for setting an ideal door-to-T-rail distance.

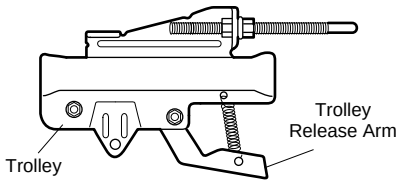
- Raise the opener onto a stepladder.

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 T-rail.

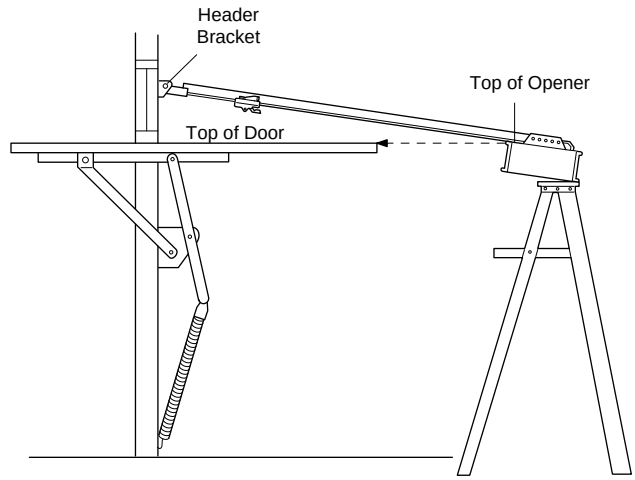
If the top panel hits the trolley when you raise the door, pull down on the trolley release arm to disconnect the inner and outer sections. The trolley can remain disconnected until Step 12 is completed.





ONE-PIECE Door without Track

- With the door fully open and parallel to the floor, measure the distance from the floor to the top of the door.
- Using a stepladder as a support, raise the opener to the same distance as the door from the floor (it will be at a slight angle as shown).
- The top of the door should be level with the top of the opener. Do not position the opener more than 2" above this point.



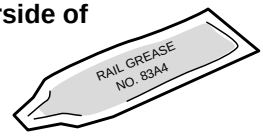
Installation Step 5

Hang the Opener

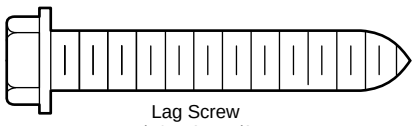
Two representative installations are shown. Yours may be different. Hanging brackets should be angled, Figure 1, to provide rigid support. On finished ceilings, Figure 2, attach a sturdy metal bracket to structural supports before installing the opener. The bracket and fastening hardware are not supplied.

- 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"x1-7/8" lag screws.
- Fasten the opener to the hanging brackets with 5/16"-18x7/8" hex screws, lock washers and nuts.
- Check to make sure the T-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.

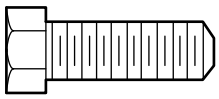
Grease the top and underside of the rail surface where the trolley slides with rail grease.



Hardware Shown Actual Size

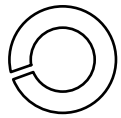


Lag Screw
5/16"-18x1-7/8"



Hex Screw
5/16"-18x7/8"

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

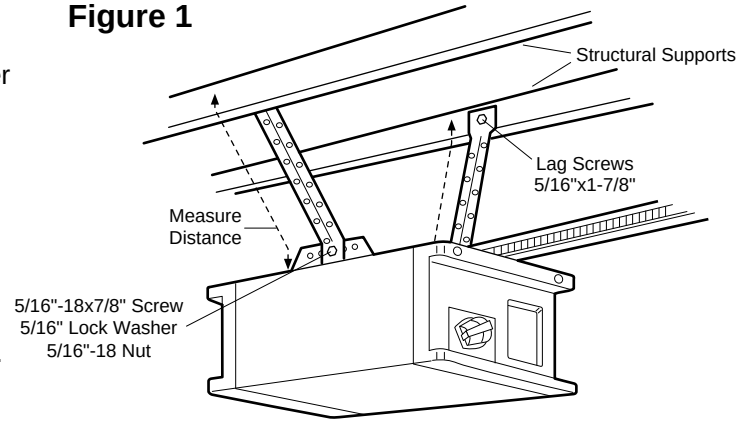
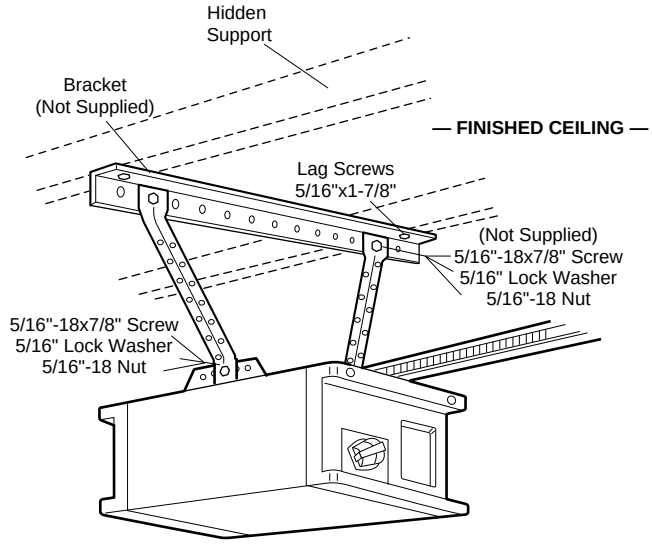


Figure 2



Installation Step 6

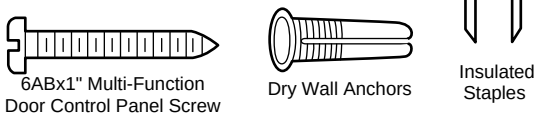
Install the Door Control

- 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 Multi-Function 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.
- 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 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 28 explains how to operate the opener using the door control push bar and the Lock and Light features.

Hardware Shown Actual Size



6ABx1" Multi-Function Door Control Panel Screw

Dry Wall Anchors

Insulated Staples

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).

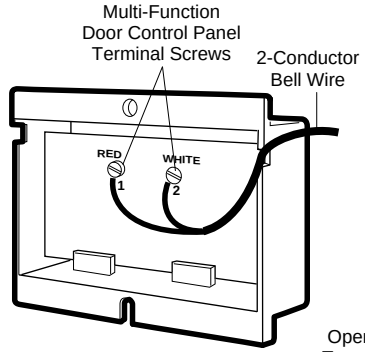
***A moving garage door could injure someone under it.* Activate the opener only when the door is properly adjusted, you can see it clearly, and there are no obstructions to door travel.**

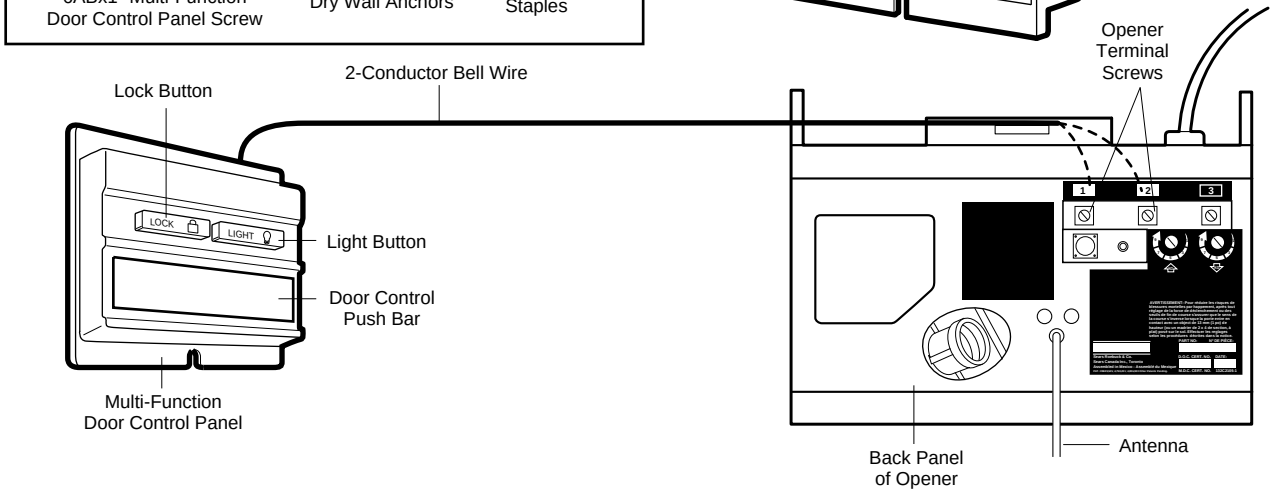
***Do NOT connect the power and operate the opener at this time.* The trolley will travel to the full *open* position but will not return to the *close* position until the sensor beam is connected and properly aligned.**

See Safety Reversing Sensor instructions beginning on page 17.

Outside Keylock Accessory Connections

To opener terminal screws: white to 2; white/red to 1





Installation Step 7

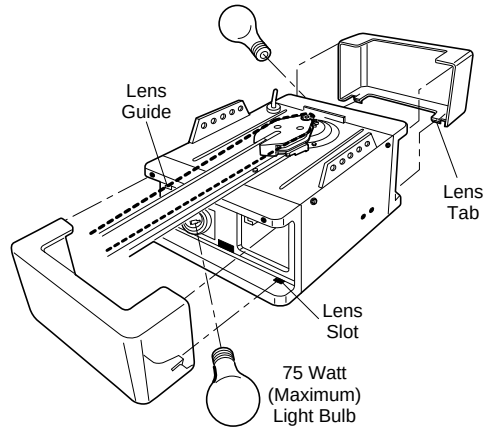
Install the Lights and the Lenses

Install the lights

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

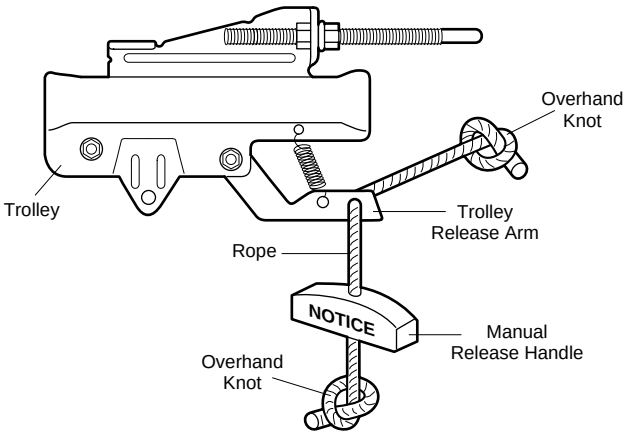
Install the lenses

- Slide lens into the guides. Snap bottom tabs into lens slots.
- Reverse the procedure to remove the lenses



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 the 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

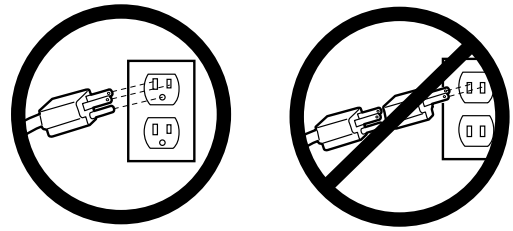
To reduce the risk of electric shock, your garage door opener has a grounding type plug with a third grounding pin. This plug will fit *only* into a grounding type outlet.

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.**



Right **Wrong**

- ***Do not change the plug in any way.***
- ***Do not use a 2-wire adapter.***
- ***Do not use an extension cord.***

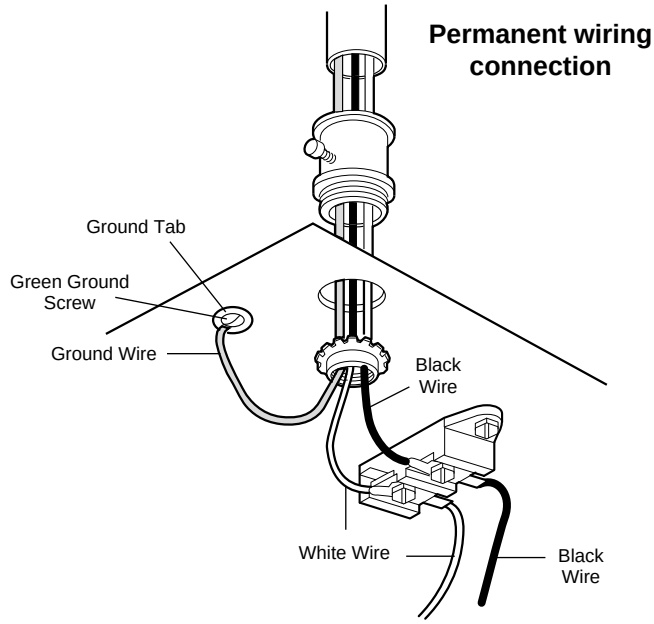
If permanent wiring is required by your local code, refer to the following procedure:

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.

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

WARNING

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

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

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

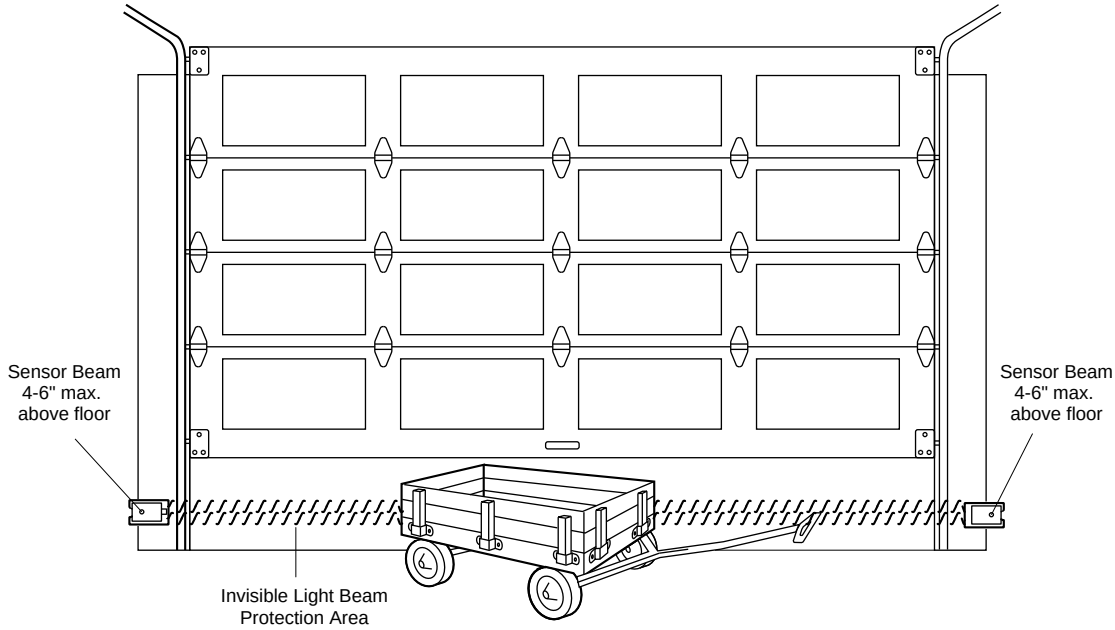


Figure 1: Facing the door from inside the garage

Be sure power to the opener is disconnected.

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

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

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

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

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

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

Installation Step 10

Install the Safety Reversing Sensor (Receiving and Sending Eyes)

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

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

Garage Wall or Door Track Installation Procedure

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

Garage Wall Installation Procedure

- Connect each assembly to a slotted bracket, using the hardware shown in Figure 3. **Note alignment of brackets for left and right sides of the door.**
- Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on both sides of the garage door, 4"-6" above the floor but not exceeding 6". (See warning on page 17.)
- Attach bracket assemblies with 1/4"x1-1/2" lag screws as shown in Figure 3.
- 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 Procedure

Discard slotted bracket. Drill 3/8" holes in each track and fasten securely with hardware as shown in Figure 4.

Garage WALL or DOOR TRACK Installation

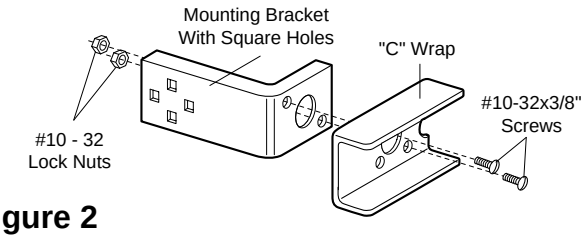


Figure 2

Garage WALL Installation

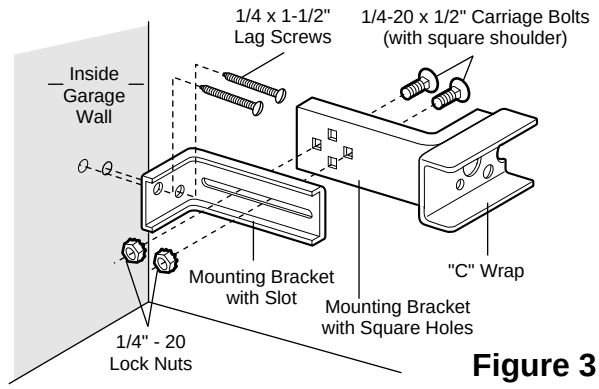


Figure 3

Garage DOOR Track Installation

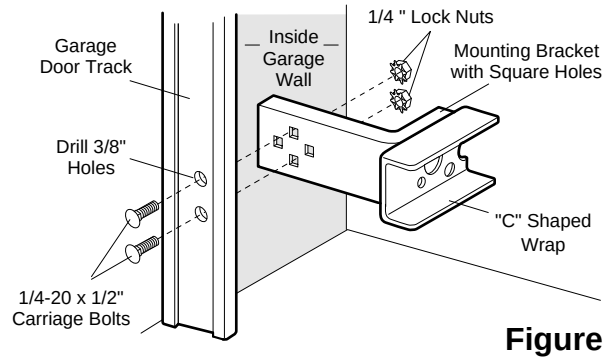
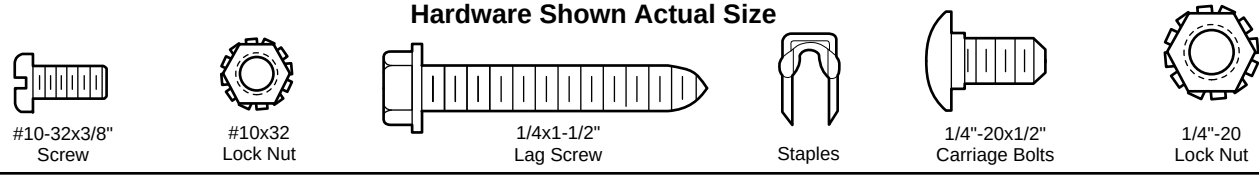


Figure 4

Hardware Shown Actual Size



Alternate Wall Mount

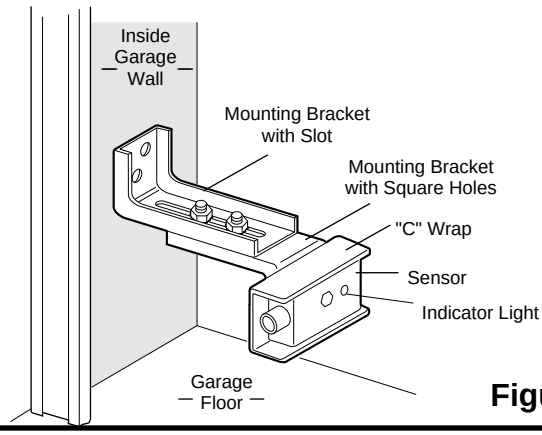


Figure 5

Alternate Floor Mount

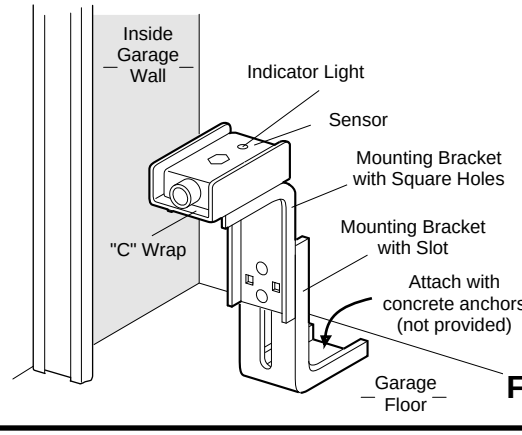


Figure 6

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

Figure 7

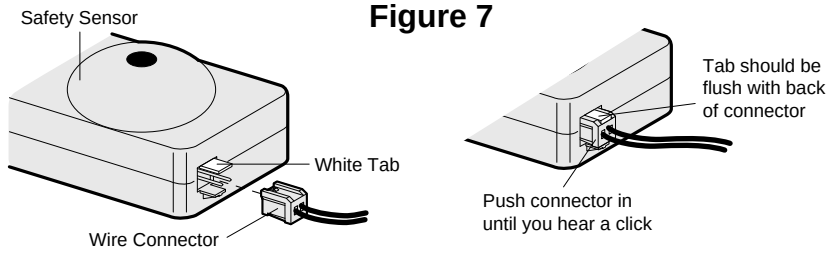
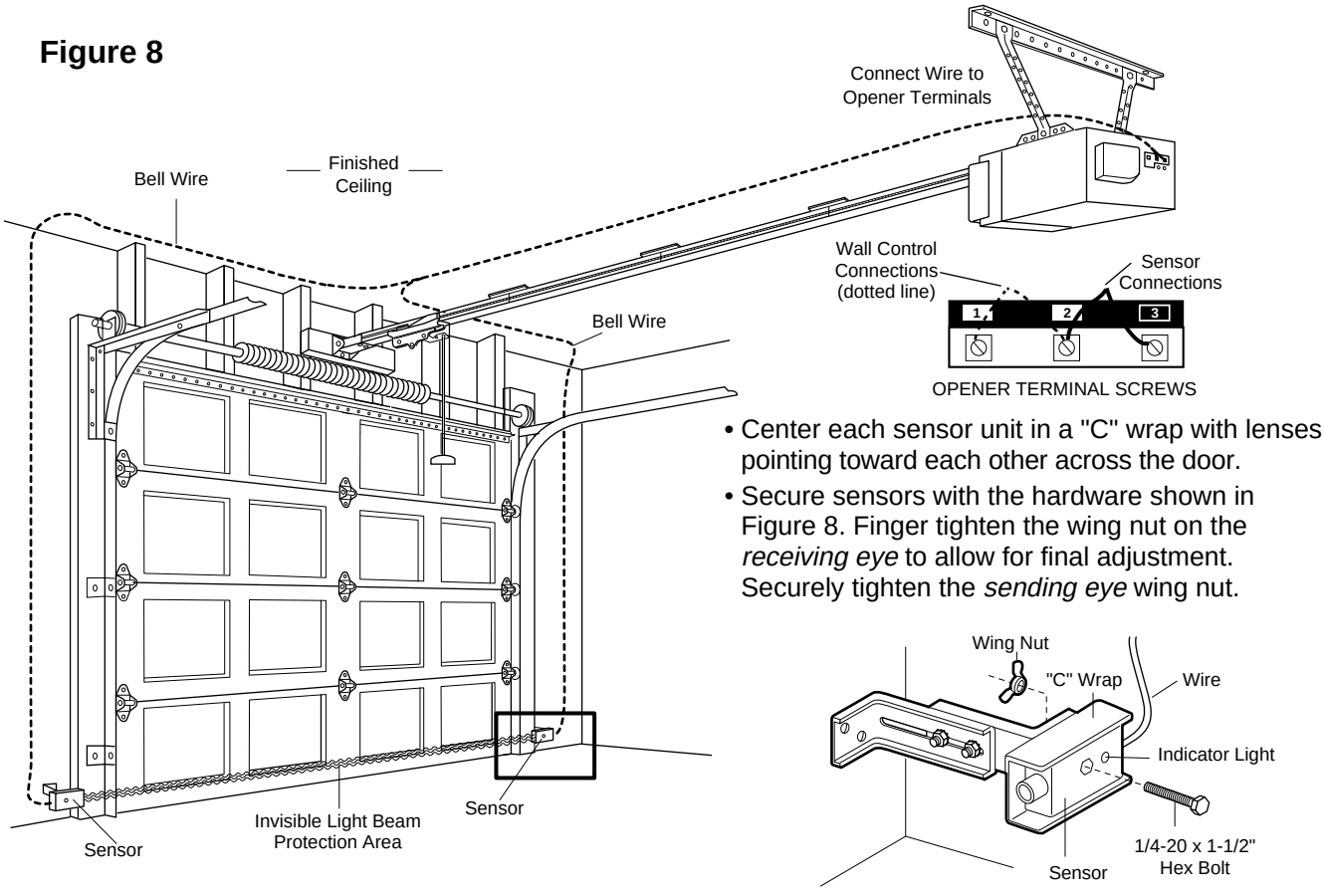


Figure 8



- Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door.
- Secure sensors with the hardware shown in Figure 8. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.

- Run paired wires from both sensors to the opener. Use insulated staples to secure the wire to wall and ceiling.
- Strip 1/4" of insulation from each set of wire. Separate white and white/black wires sufficiently to connect to the opener terminal screws: white to 2 and white/black to 3.

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

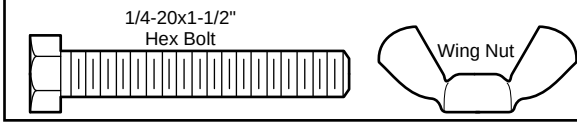
If the indicator light is *off* in the *receiving eye* (and the invisible light beam path is not obstructed), alignment is required.

- Loosen the receiving eye wing nut to allow slight rotation of unit. Adjust sensor vertically and/or horizontally until the green indicator light *glows with a steady light*
- When indicator lights are *glowing steadily* in both units, tighten the wing nut in the receiving eye unit.

Trouble Shooting

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

Hardware Shown Actual Size



Installation Step 11

Fasten Door Bracket

Follow instructions which apply to your door type as illustrated below or on page 21.

CAUTION

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.

A horizontal brace should be long enough to be secured to 2 vertical supports. A vertical brace should cover the height of the top panel.

The illustration 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.

SECTIONAL Door Installation Procedure

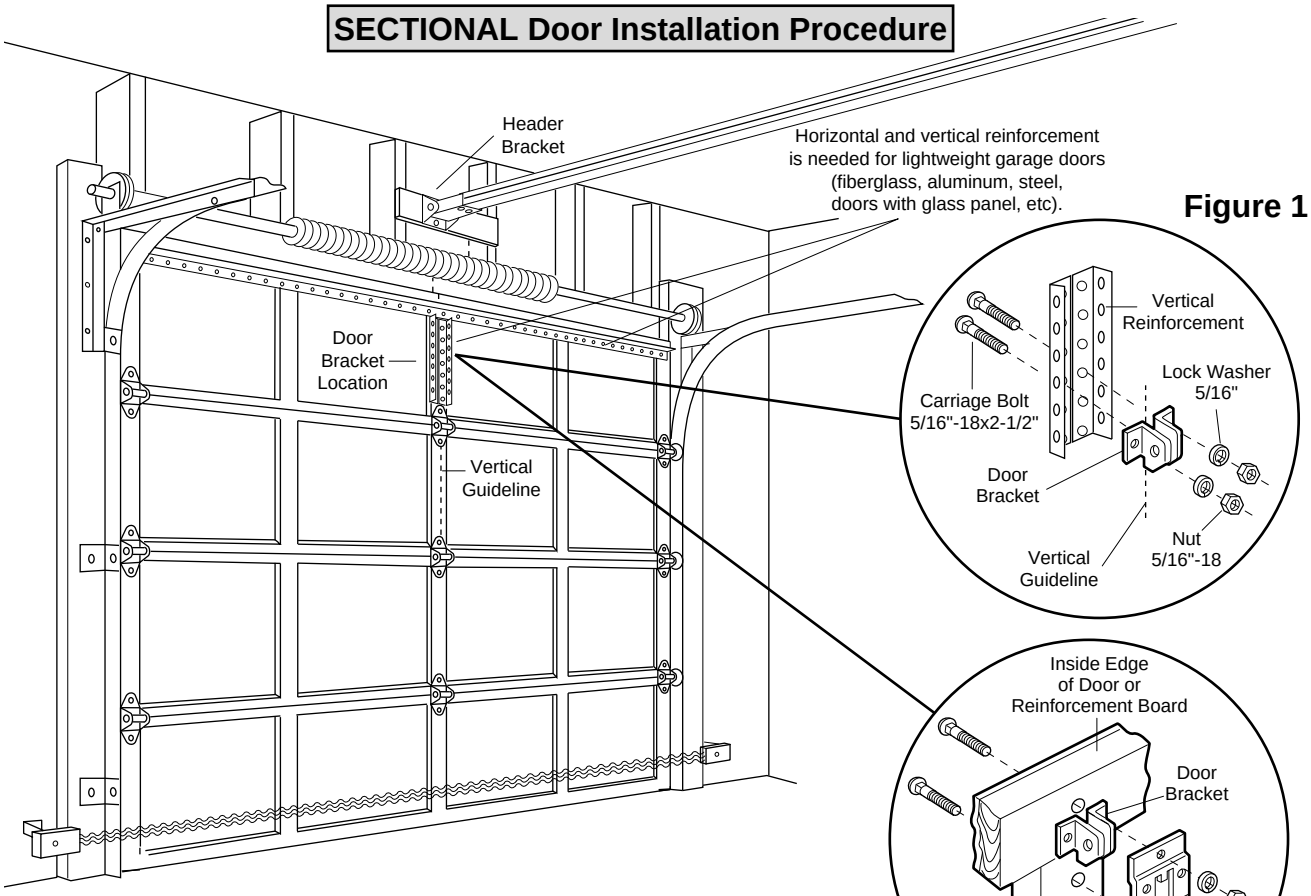


Figure 1

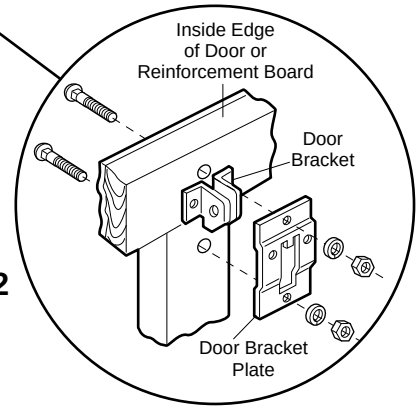


Figure 2

- Center the door bracket on the previously marked vertical guideline used for the header bracket installation.
- Position the bracket on the face of the door within the following limits:

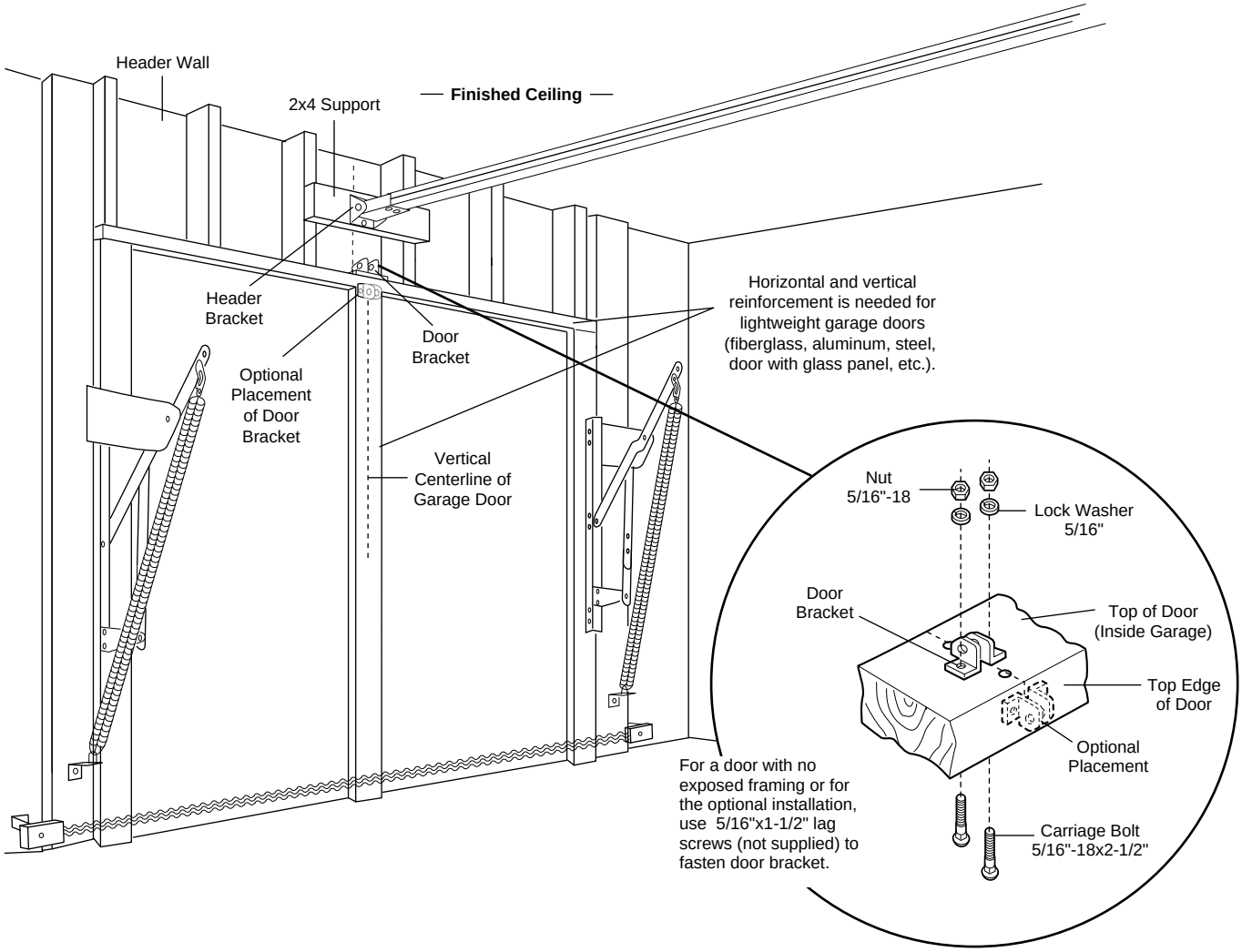
  A) The top edge of the bracket 2"-4" below the top edge of the door.

  B) The top edge of the bracket directly below any structural support across the top of the door.
- Mark and drill 5/16" left and right fastening holes. Secure the bracket as shown in Figure 1 if there is vertical reinforcement.

If your installation doesn't require vertical reinforcement but does need top and bottom fastening holes for the door bracket, position the door plate over the door bracket as shown in Figure 2. Fasten securely with hardware shown in Figure 1.

All ONE-PIECE Door Installation Procedure

Please read and comply with the warnings and reinforcement instructions on page 20. They apply to one-piece doors also.

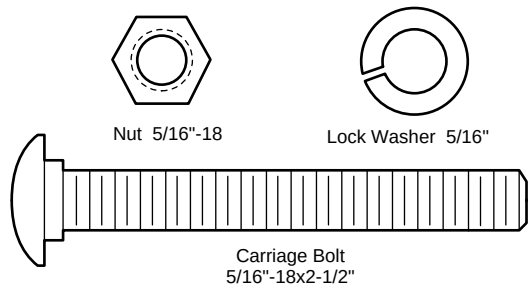


- Center the bracket on the top of the door, in line with the header bracket as shown. Mark holes.
- Drill 5/16" pilot holes and fasten the door bracket with hardware supplied.

If the door has no exposed framing, drill 3/16" pilot holes and fasten the bracket with 5/16"x1-1/2" lag screws (not supplied) to the top of the door.

The door bracket may be installed on the top edge of the door if required for your installation. (Refer to the dotted line optional placement drawing.) Drill 3/16" pilot holes and substitute 5/16"x1-1/2" lag screws (not supplied) to fasten the bracket to the door.

Hardware Shown Actual Size



Installation Step 12

Connect Door Arm to Trolley

Follow instructions which apply to your door type as illustrated below and on page 23.

SECTIONAL Doors Only

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.

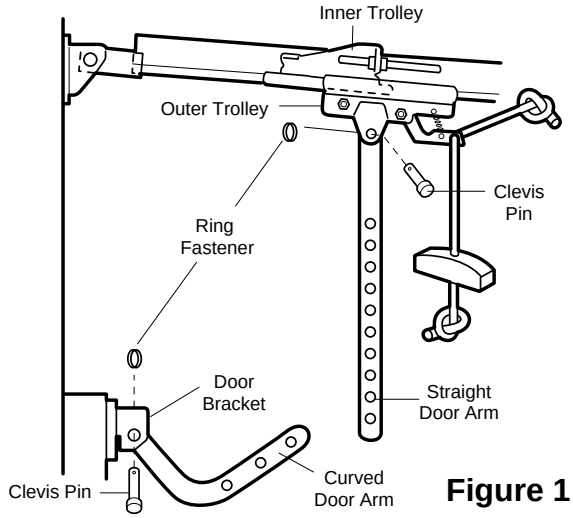


Figure 1

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.

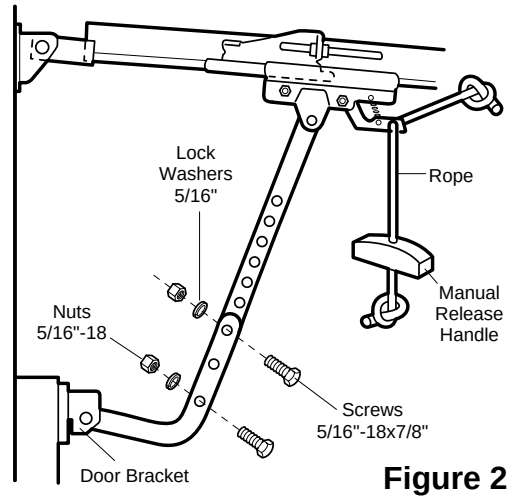


Figure 2

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.

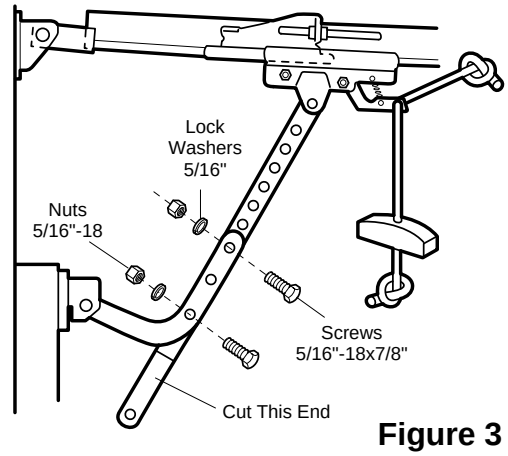
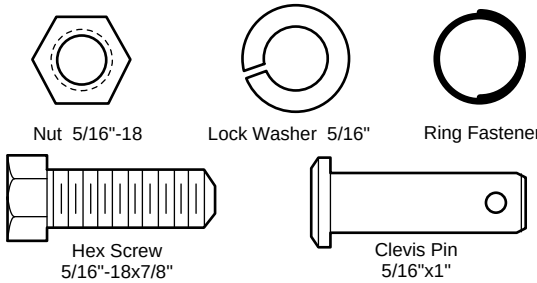


Figure 3

Hardware Shown Actual Size

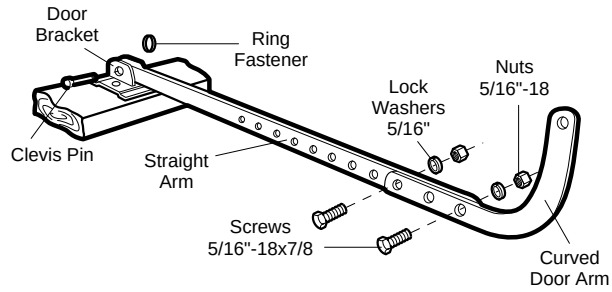


Proceed to Adjustment Step 1, page 24. Trolley will re-engage automatically when the opener is operated.

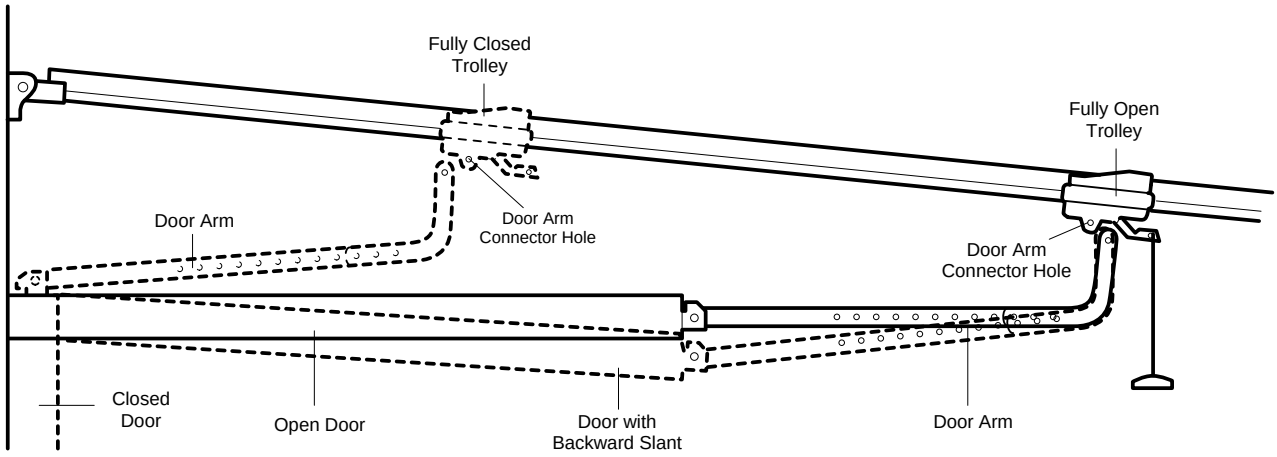
All ONE-PIECE Doors

Assemble the Door Arm:

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



On one-piece doors, before connecting the door arm to the trolley the travel limits must be adjusted. Limit adjustment screws are located on the left side panel as shown on page 24. Follow adjustment procedures below.



Adjustment Procedures for One-Piece Doors

Open Door Adjustment: Decrease UP limit

- Turn the UP limit adjustment screw counter-clockwise 5-1/2 turns.
- Press the Door Control push bar. The trolley will travel to the fully open position.
- Manually raise the door to the open position (parallel to the floor), and lift the door arm to the trolley. The arm should touch the trolley just in back of the door arm connector hole. Refer to the fully open trolley/door arm positions in the illustration. If the arm does not extend far enough, adjust the limit further. One full turn equals 2" of trolley travel.

Closed Door Adjustment: Decrease DOWN limit

- Turn the DOWN limit adjustment screw clockwise 5 complete turns.
- Press the Door Control push bar. The trolley will travel to the fully closed position.
- Manually close the door and lift the door arm to the trolley. The arm should touch the trolley just ahead of the door arm connector hole. Refer to the fully closed trolley/door arm positions in the illustration. If the arm is behind the connector hole, adjust the limit further. One full turn equals 2" of trolley travel.

Connect the door arm to the trolley.

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

Adjustment Section: Pages 24 – 26

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 bar. Run the opener through a complete travel cycle.

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

If your door passes both of these tests, no limit adjustments are necessary unless the reversing test fails (see page 26).

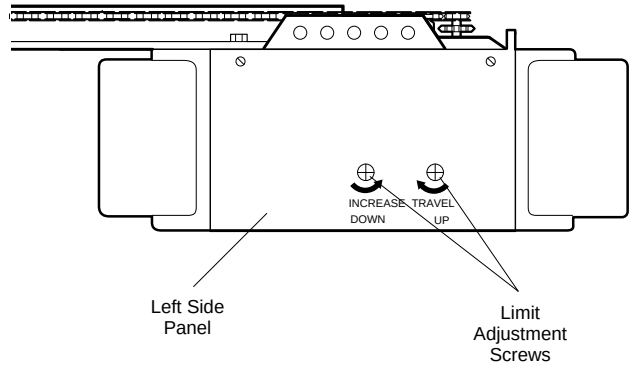
Adjustment procedures are outlined below. Run the opener through a complete travel cycle after each adjustment.

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 continuing on to Adjustment Step 2. Use a screwdriver to make limit adjustments.

WARNING

Improper adjustment of the travel limits will interfere with the proper operation of the safety reverse system. *The door might not reverse 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 26.



Adjustment Label

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.

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, try lengthening the door arm (Page 22).

If you have adjusted the door arm to the maximum length and the door still will not close completely, lower the header bracket. See Installation Step 1, pages 8 and 9.

If the opener *reverses* in fully closed position

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

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

If the opener lights are flashing, the Safety Reversing Sensor is obstructed. Remove the obstruction.

Test the door for binding: Pull the manual release handle. Manually open and close the door. If the door is binding, call for garage door service. If the door is not binding or unbalanced, adjust the DOWN (close) force. See Adjustment Step 2.

Adjustment Step 2

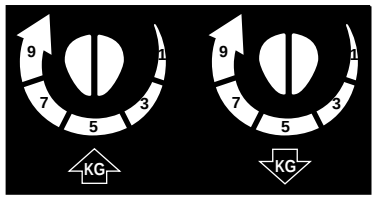
Adjust the Force

Force adjustment controls are located on the back panel of the 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.

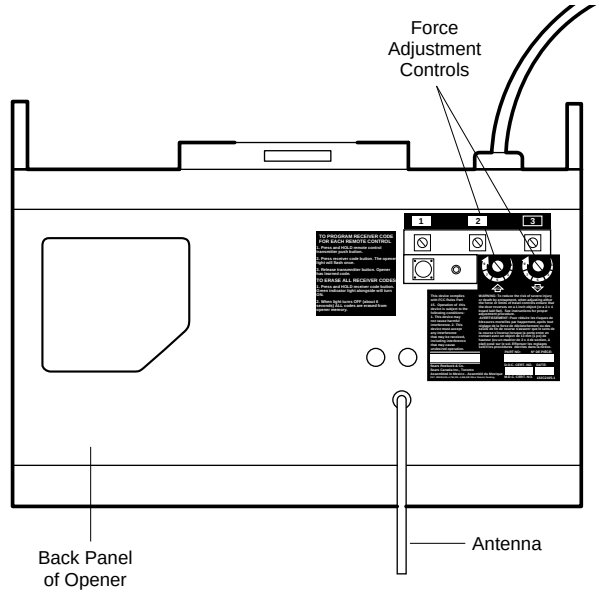
The maximum force adjustment range is 260 degrees, about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.



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 the minimum amount 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 26.



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 26.)** 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 remote control push button to open the door.
- Place the opener carton in the path of the door.
- Press the remote control push button to close the door. *The door will not move more than an inch, and the opener lights will flash for 5 seconds.*

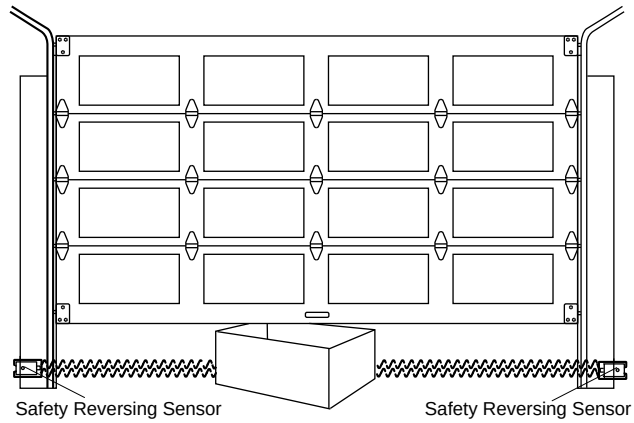
The garage door opener will not close from a transmitter if the indicator light in either sensor is *off,* alerting you to the fact that the sensor is misaligned or obstructed).

The garage door can be closed by pressing and holding the door control push bar until down travel is completed.

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

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 one-inch board (or a 2x4 laid flat) on the floor, centered under the garage door.
- Operate the door in the down direction. ***The door must reverse on striking the obstruction.***

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.

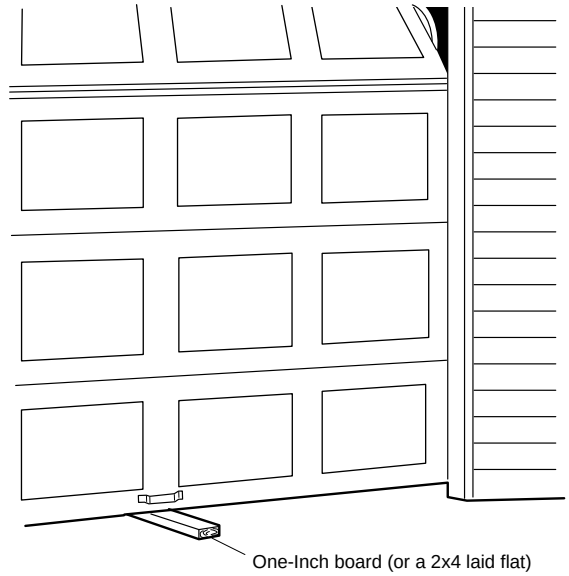
On a sectional door, make sure limit adjustments do not force the door arm beyond a straight up and down position. See the illustration on page 22.

- When the door reverses on the one-inch object, (or 2x4 laid flat), 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.

WARNING

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



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.

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 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 26. 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 emergency 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.**

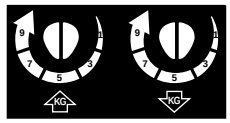
Care of Your Opener

Limit and force adjustment controls

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 24 and 25 refer to the limit and force adjustments. Only a screwdriver is required. Follow the instructions carefully.

Repeat the safety reverse test (page 26) after any adjustment of limits or force.

The remote control transmitter

Any new code switch transmitter must be set to the same code positions as the original transmitter. Page 29 explains how to program your garage door opener and how to erase all codes if required. Self service of your receiver and remote control is not recommended. If service is needed, call the phone number listed on the back page.

The remote control battery

The red test light will glow and the opener will operate when the transmitter is activated, as long as there is adequate battery power.

If the test light is *dim or off*, replace the battery. Also check the test light if transmission range decreases.

The 12 volt battery should produce power for at least a year.

Dispose of your old battery properly.

Maintenance Schedule

Once a Month

Manually operate door. If it is unbalanced or binding, call for professional garage door service.

Check to be sure door opens & closes fully. Adjust limits and/or force if necessary. (See pages 24 and 25.)

Repeat the safety reverse test. Make any necessary adjustments (See page 26).

Twice a Year

Check chain tension. Disconnect trolley first. Adjust if necessary. (See page 7.)

Once a Year

Oil door rollers, bearings and hinges.

The opener does not require additional lubrication.

Do not grease the door tra**cks.**

Operation of Your Opener

Activate the opener with any of the following:

- **The Remote Control Transmitter.** Hold push button down until the door starts to move.
- **The Door Control.** Hold push bar 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, the door 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 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.

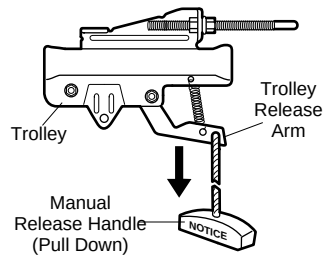
If the sensor is not installed, or is not aligned correctly, the door won't close from any remote control transmitter. You can close the door with the Door Control, the Outside Keylock, or Keyless Entry, however, if you activate them until down travel is complete. If you release them too soon, the door will *reverse.*

The opener lights will *blink for 5 seconds* when the safety reversing sensor causes the door to reverse.

Opener Lights will turn on under the following conditions: When the opener is initially plugged in; when the power is interrupted; when the opener is activated. They will turn off automatically after 4-1/2 minutes or provide constant light when the Light feature is activated. Bulb size is 75 watts maximum.

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.**

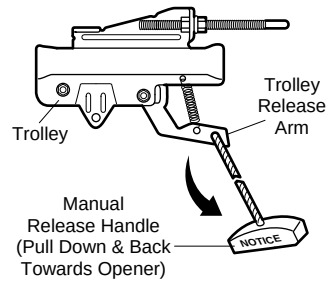


Manual disconnect position

To open the door manually:

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

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



Lockout position

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(s) *on* and then activate the opener, the light(s) will turn *off* after 4-1/2 minutes.

The Light button will not activate the opener lights when the door is in motion.

Lock Feature: Designed to prevent operation of the door from 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 light will flash as long as the Lock feature is *on.*

To turn off: Press and hold the Lock button again for 2 seconds.The push bar 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.

Receiver and Remote Control Programming

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

The 2-Channel Remote Control has two push buttons (for Channel 1 and Channel 2), each activated by its own set of code switches. Refer to the illustration below. Channel 1 push button, with a smooth surface, is set to operate the garage door opener. The other button can operate an entry way, light product or another door opener.

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(s) 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.**

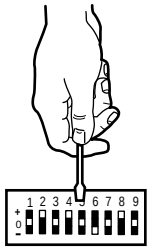
MATCH/CHANGE THE CODE IN REMOTE CONTROL(S)

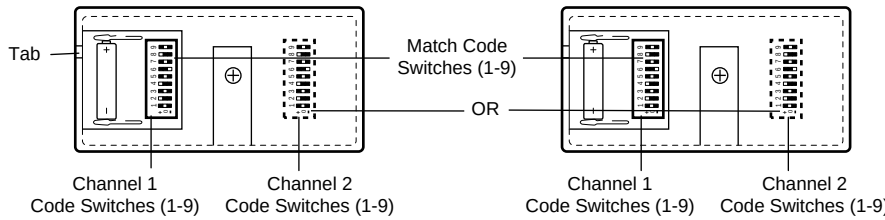
Set Code Switches in all Remotes to Matching Positions

Acess the code switches for channel 1 push button by sliding back the battery compartment cover. To access the code switches for channel 2, remove the battery compartment cover and the cover screw. Then depress the tab in edge of case (alongside battery). The remote control case back will lift off.

Place remotes side by side as shown. Set the selected channel code switches to the same positions as in the original remote. Use a screwdriver or pen to slide the switches.

The remaining set of code switches in your new remote can be used to operate a second garage door opener or light product.





Set Receiver to Match Remote Control's Code

Make sure all remote control code switches are set to matching positions as described above

1. Press and *hold the selected* remote push button. See Figure 1.
2. Press and release the green "Smart" button on the back panel of the opener, Figure 2. The opener lights on the panel will *flash once.*
3. Release the remote push button.

Now the opener will operate when the remote control push button is pressed.

If you release the remote control push button before the opener lights flash, the opener will not accept the code.

Figure 1

Figure 2

To Erase All Remote Control Codes

- Press and hold the green "Smart" button on the opener panel until the indicator light turns off (about 6 seconds). ***All* the codes the opener has learned will be erased.**
- To reprogram, repeat Steps 1 – 3 for each remote control in use.

Code programming instructions are also located on the opener panel.

Having a Problem?

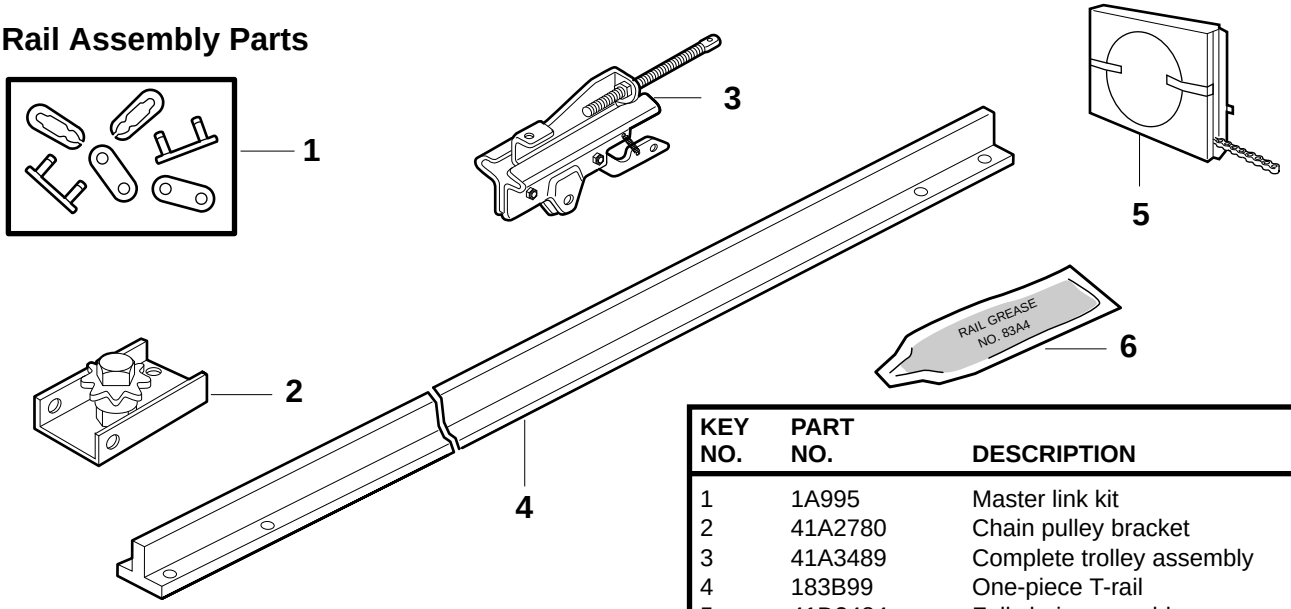
Situation	Probable Cause & Solution
The opener doesn't operate from either the door control or the remote control:	1. Does the opener have electric power? Plug a lamp into the outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.) 2. Have you disabled all door locks? Review installation instruction warnings on Page 7. 3. Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction. 4. The garage door spring may be broken. Have it replaced. 5. Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again.
Opener operates from remote control, but not from door control:	1. Is the door control push bar lit? If not, Remove the bell wire from the opener terminal screws. 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. 2. Are the wiring connections correct? Review Step 6, page 14.
The door operates from the door control, but not from the remote control:	1. If your model has the Lock feature, turn it *off.* 2. Is the wall push button flashing? Your opener needs to re-learn a remote control code. Refer to instructions on the opener panel. 3. Does the battery test light glow when the remote control push button is pressed? If not, replace the battery. 4. Program the receiver to match the remote control code. 5. Repeat the receiver programming procedure with all remote controls.
The remote control has short range:	1. Check the battery test light. If the light is dim, replace the battery. 2. Change the location of the remote control in your car. 3. Check to be sure the antenna on the side or back panel of the opener extends fully downward. 4. Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage siding.
Opener noise is disturbing in living quarters of home:	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.
The garage door opens and closes by itself:	1. Be sure that all remote control push buttons and battery indicator lights are off. 2. Remove the bell wire from the door control terminals and operate from the remote control 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.
The door doesn't open completely:	1. If the door has been working properly but now doesn't open all the way, increase the *up force.* See page 25. 2. Is something obstructing the door? Remove the obstruction or repair the door. 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 24. ***Repeat the safety reverse test after the adjustment is complete.***
The door stops but doesn't close completely:	Review the travel limits adjustment procedures on page 24. ***Repeat the safety reverse test after any adjustment of door arm length, close force or down limit.***

Having a Problem? *(continued)*

Situation	Probable Cause & Solution
The door opens but won't close:	1. If the opener lights blink, check the safety reversing sensor. See page 19. 2. If the opener lights do not blink and it is a new installation, check the down force. See Adjustment Step 2, page 25. 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 lights don'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 25. 4. If door reverses in the *fully closed* position, decrease the travel limits (page 24). ***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 lights blink for 5 seconds after reversing:	Check the safety reversing sensor. Remove any obstruction or align the receiving eye. See page 19.
The opener lights:	***. . . don't turn on:*** Replace the light bulbs (75 watts maximum). Use a *standard neck* garage door opener bulb if regular bulb burns out. ***. . . don'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 bar and trolley will automatically reconnect (unless trolley is in lockout position.) See page 28. 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 to disconnect the trolley. If the chain returns to normal height when the trolley is disengaged and the door reverses on a one-inch board, no adjustments are needed (see page 7).

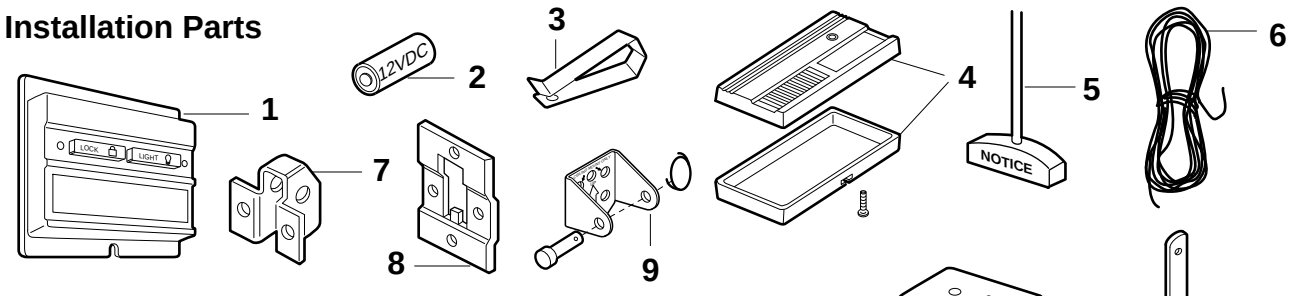
Repair Parts

Rail Assembly Parts



KEY NO.	PART NO.	DESCRIPTION
1	1A995	Master link kit
2	41A2780	Chain pulley bracket
3	41A3489	Complete trolley assembly
4	183B99	One-piece T-rail
5	41D3484	Full chain assembly
6	83A4	Rail Grease

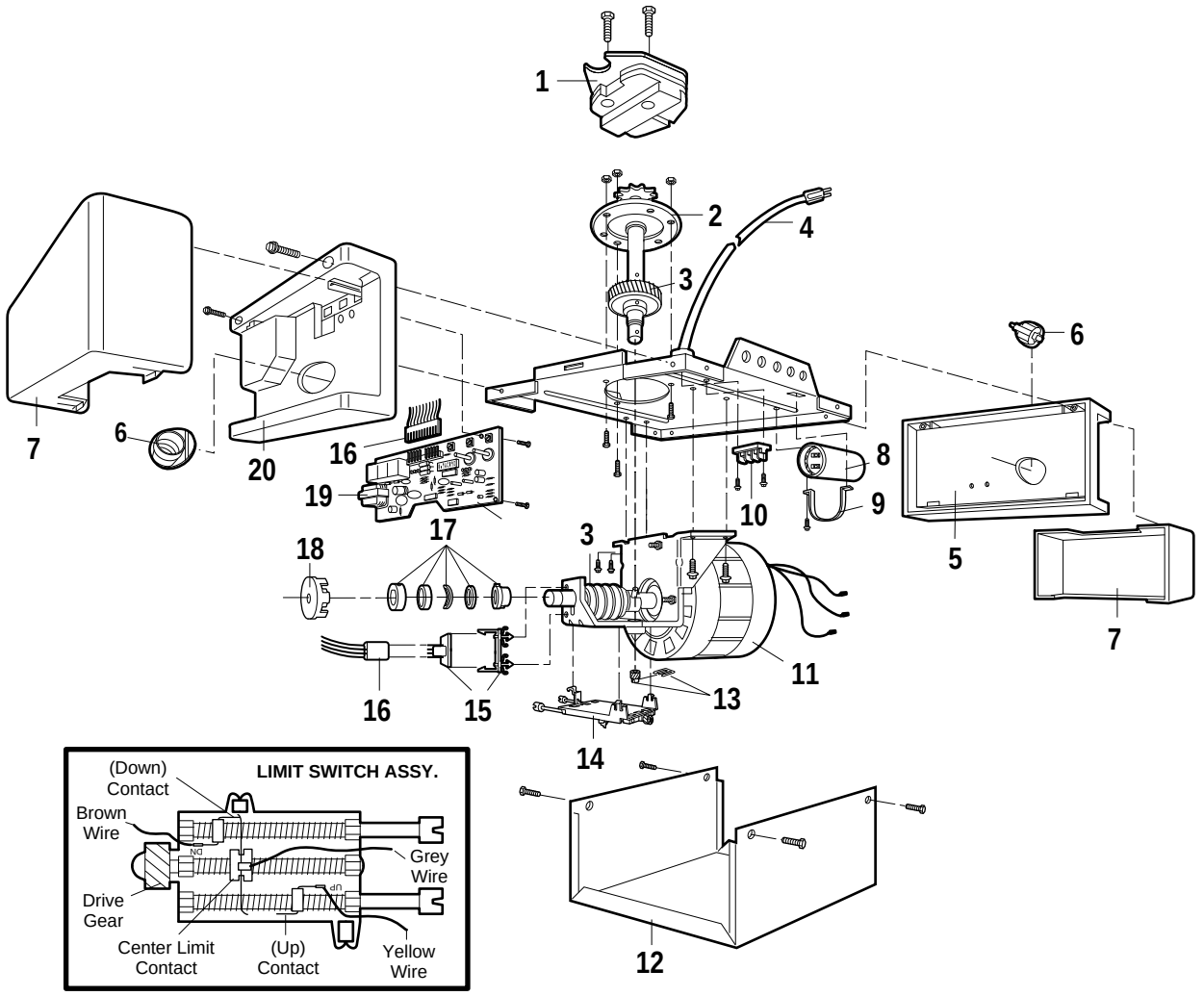
Installation Parts



KEY NO.	PART NO.	DESCRIPTION
1	41A4202-3A	Multi-function door control panel
2	10A14	12V battery
3	29C128	Remote control visor clip
4	41A3608-1	Remote control housing & screw only (no circuit board)
5	41A2828	Manual release rope & handle assembly.
6	217A238	2-Conductor bell wire - white & white/red
7	12B374	Door bracket
8	12B380	Door bracket plate
9	41A4353	Header bracket w/clevis pin & fastener
10	41A4373	Safety sensor kit (receiving and sending eyes only)
11	41B4115	2-Conductor bell wire with connector white & white/black (2 rolls)
12	178B35	Curved door arm section
13	178B34	Straight door arm section
14	12B483	C-wrap bracket
15	12B484	Square hole bracket
16	12B485	Slotted bracket
		NOT SHOWN
	41A4116	Safety Sensor Hardware
	41A2770	Installation hardware bag (includes hardware listed on page 5).
	114A1828	Owner's Manual

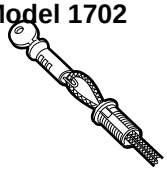
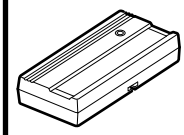
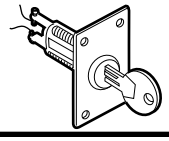
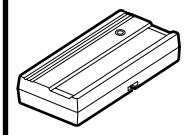
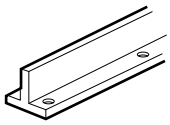
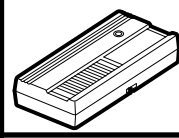
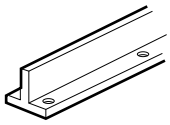
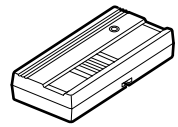
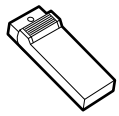
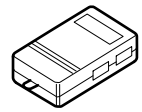
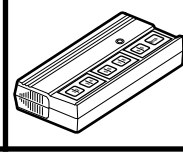
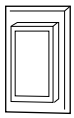
Repair Parts

Opener Assembly Parts



KEY NO.	PART NO.	DESCRIPTION
1	41A4208	Chain spreader assembly.
2	41C4206A	Gear and sprocket assembly.
		Complete with:
		Spring washer
		Thrust washer
		Retaining ring
		Bearing plate
		Roll pins (2)
		Drive gear and worm gear
		Helical gear w/retainer and grease
3	41A2817	Drive/worm gear kit w/grease
		Roll pins (2)
4	41B4245	Line cord
5	143D152	End panel w/all labels
6	175B88M	Light socket
7	108D34	Lens
8	30B363	Capacitor - 1/2HP
	30B387	Capacitor - 1/3 HP
9	12A373	Capacitor bracket
10	41A3150	Terminal block w/screws
11	41D3058	Universal replacement motor & bracket assembly
		Complete with: Motor, worm, bracket, bearing assembly, RPM sensor.
12	41A3733	Cover (Model AD1200 – 1/2 HP)
	41A3733-1	Cover (Model AD800 – 1/3 HP)
13	41A2818	Helical gear & retainer w/grease
14	41D3452	Limit switch asembly
15	41C4398A	RPM sensor assembly
16	41C4246	Wire harness assembly. w/plug
17	41A2826	Shaft bearing kit
18	41A2822A	Interrupter cup assy.
19	41A4252-6B	Receiver logic board assy.
		Complete with:
		Logic board
		End panel w/all labels
		Light socket
20	41A3673	End panel w/all labels
		NOT SHOWN
	41A2825	Opener assembly. hardware kit (includes screws not designated by a number in illustration.

Accessories Available For Your Opener

Model 1702 	**Outside Quick Release:** *Required* for a garage with NO access door.	**Model 81LM** 	**"Smart" Remote Control:** Includes visor clip.
Model 60 	**Outside Keylock:** Opens the garage door automatically from outside when remote control is not handy.	**Model 61LM** 	**Single-Function Standard Size Remote Control:** Includes visor clip.
Model 1778 	**8 Foot Complete Rail:** To allow an 8 foot door to open fully.	**Model 62AD** 	**2-Channel Remote Control:** Includes visor clip.
Model 1770 	**10 Foot Complete Rail:** To allow a 10 foot door to open fully.	**Model 63LM** 	**Multi-Function Standard Size Remote Control:** Includes visor clip.
Model 66LM 	**Keyless Entry:** Enables homeowner to operate garage door opener from outside by entering code on specially designed keyboard.	**Model 64LM** 	**Multi-Function Mini Remote Control:** With key ring & Velcro fastening strip.
Model 742LM 	**Plug-In Light Control:** Controls interior lights. Plugs into a wall receptacle.	**Model 99LM** 	**Security Remote Control:** Operates garage door opener by entering 2, 3, 4, or 5 digit code from backlit keyboard. Includes visor clip.
Model 722LM 	**Wire-In Light Control:** Controls interior or exterior lights. Wires into the electrical box like a dimmer switch.		

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TO ORDER REPAIR PARTS, CALL OR WRITE:

Anaheim Door
4900 E. LaPalma
Anaheim, CA 92807

Phone: 1-714-779-1919

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