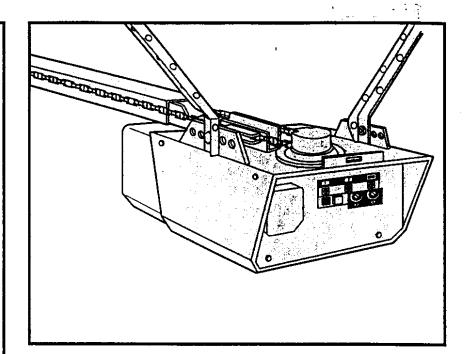
## Owner's **Manual**

Model No. 139.53974SRT



For Residential Use Only

## CRAFTSMAN

## **GARAGE DOOR OPENER** 1/2 HP

## Caution:

Read and follow all safety rules and operating instructions before first use of this product.

Fasten the manual

near the garage door after installation.

- **■** Safety Precautions
- Assembly
- Installation
- Adjustment
- Care and Maintenance
- Operation
- Troubleshooting LIBRARY:
- Parts List

Complies with UL 325 regulations effective January 1, 1993



Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

Vist our Craftsman website: www.sears.com/craftsman

# MODEL/ENTRYINSTRUCTIONS SEARS MODELS ONLY

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EWSUPERCEDECHANGE_X_DELETE	!
IVISION 09 PRICE LIST 139	
MODEL NUMBER 139 . 53974 SRT	
10DEL DESCRIPTION Springe Door Opener	· · · · · · · · · · · · · · · · · · ·

THIS FORM ACCOMPANIES A PARTS BREAKDOWN FOR A NEW MODEL INTO THE SYSTEM. ALSO ATTACH AN OWNERS MANUAL TO BE PUT INTO THE MAX SERV LIBRARY.

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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 injury 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.

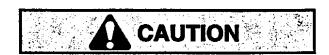




#### Mechanical

#### Electrical

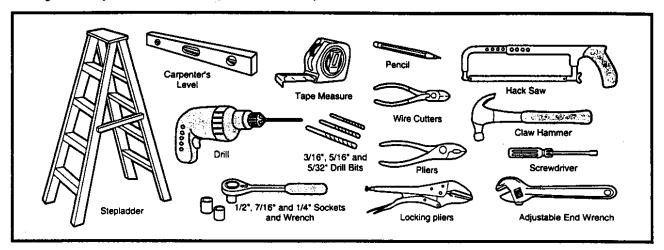
When you see this Safety Symbol on the following pages, it will alert you to the possibility of damage to your garage door and/or the garage door opener if you do not comply with the corresponding instructions. *Read the Instructions carefully.* 



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.



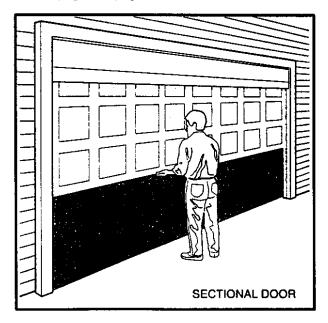


An unbalanced garage door might not reverse when required and someone under the door could be seriously injured or killed.

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 and any special conditions that exist and any additional materials that may be required by referring to the lists on page 4 or page 5.

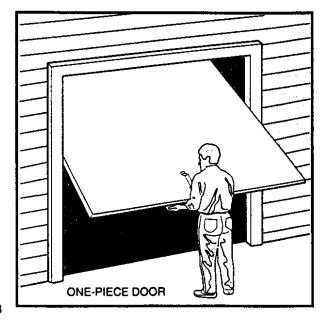




To avoid damage to the garage door and opener, disable locks before installing and operating the opener. Use a wood screw or nail to hold locks in the "open" (unlocked) position. Operation at other than 120V 60 Hz will cause opener malfunction and damage.

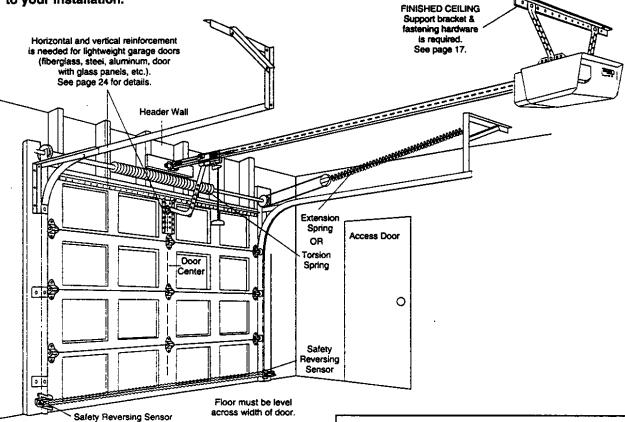
Before you begin, complete the following test to make sure your door is balanced, and is not sticking or binding:

- 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.



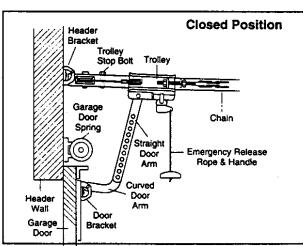
## SECTIONAL Door Installation

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



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 12 Look at the wall or ceiling above the garage door. The header bracket must be securely fastened to structural supports.
- Step 5, page 17 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 21 Depending upon garage construction, extension brackets (see Accessories page 38) or wood blocks may be needed to fasten sensors to mounting locations.
- Step 10, page 22 Floor mounting of the safety reversing sensor will require hardware not provided.
- Step 11, page 24 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. See page 30. Floor or door should be repaired.



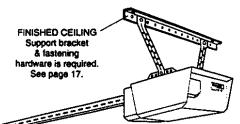
- The opener can be installed within 4 feet to the left or right of the door center if there is a torsion spring or center bearing plate in the way of the header bracket or door bracket area. If your door has extension springs, the opener must be installed in the center of the door. See pages 12 and 24.
- Do you have an access door in addition to the garage door? If not, Model 53702 Emergency Key Release is required. See page 38.
- If your door is more than 7 feet high, see the rail extension kits listed on page 38.

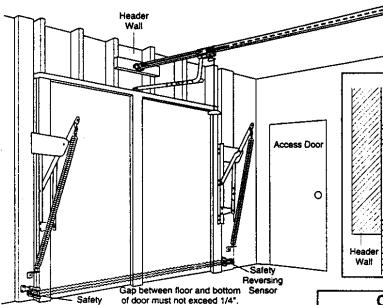
You may find it helpful to refer back to this page as you proceed with the installation of your opener.

## ONE-PIECE Door Installation

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

#### **One-Piece Door without Track**



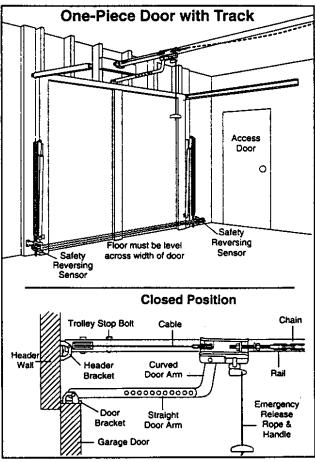


**Closed Position** Trolley Trolley Stop Boit Cable Header Bracket Rail Door Bracket Emergency Release Straight Curved Roce & Handle Door Door Arm Arm Wal! Garage Door

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

Reversing Sensor

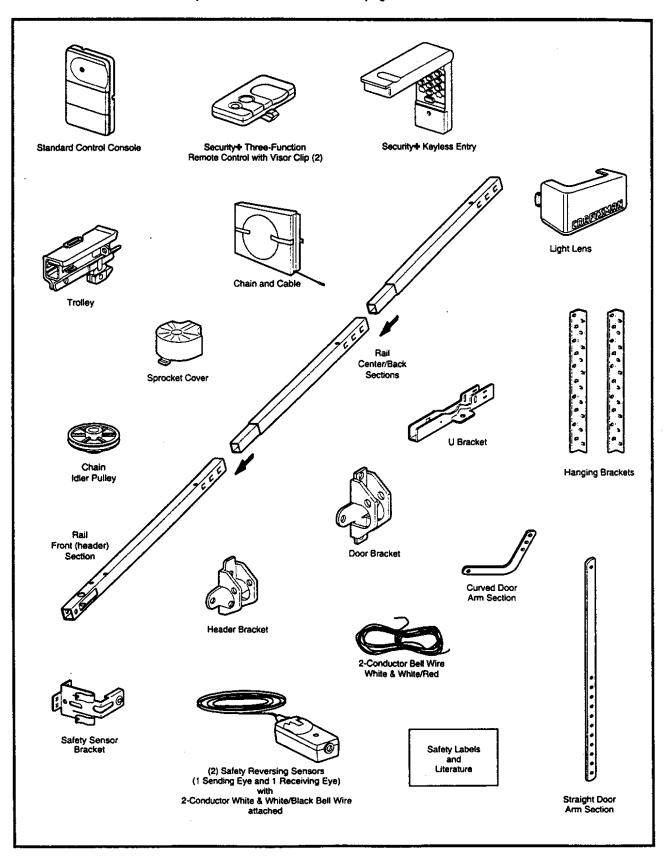
- Step 1, page 13 Look at the wall or ceiling above the garage door. The header bracket must be securely fastened to structural supports.
- Step 5, page 17 Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware (not provided) may be required.
- Safety reversing sensor, page 21 Depending on garage construction, wood blocks or extension brackets (see Accessories page 38) may be needed to fasten sensors to mounting locations.
- Step 10, page 22 Floor mounting of the safety reversing sensor will require hardware that is not provided.
- Step 11, page 25 Generally, a one-piece door does not require reinforcement. If your door is lightweight, you can refer to the information relating to sectional doors on page 24.
- Step 11, page 25 Depending on your door's construction, you might need additional mounting hardware for the door bracket.
- Do you have an access door in addition to the garage door? If not, Model 53702 Emergency Key Release is required. See page 38.
- The gap between the bottom of the garage door and the floor cannot exceed 1/4".
   Otherwise, the safety reverse system may not work properly. See page 30. The floor or the door should be repaired.



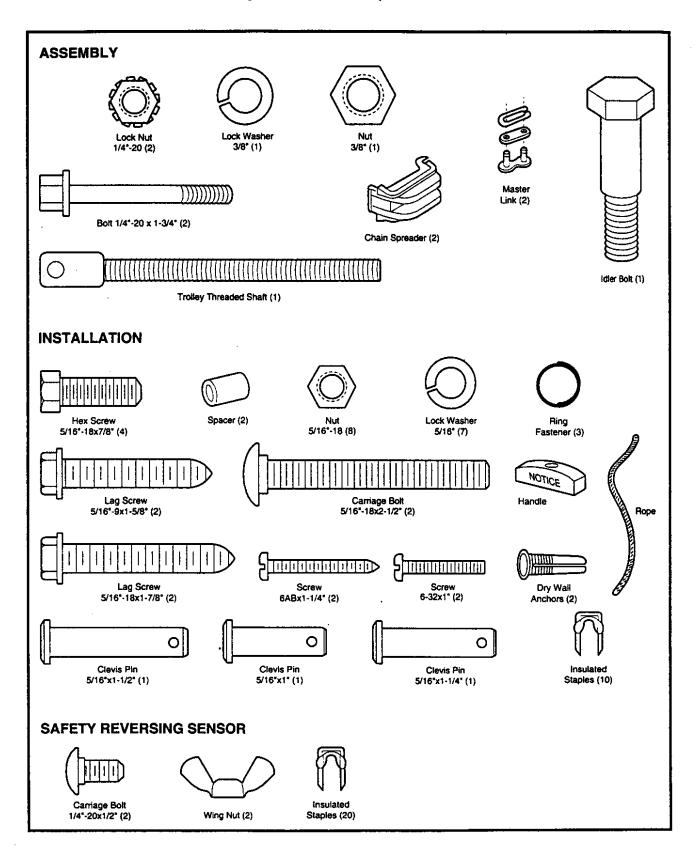
You may find it helpful to refer back to this page as you proceed with the installation of your opener.

## **Carton Inventory**

Your garage door opener is packaged in two cartons which contain parts illustrated below. Accessories will depend on model purchased. If anything is missing, carefully check the packing material. Parts may be "stuck" in the foam. Hardware for assembly and installation is shown on page 7.



Separate all hardware from the packages in the rail carton and the opener carton, as shown below, for the assembly and installation procedures.



## Assembly Section: Pages 8 - 11

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

### **Assembly Step 1**

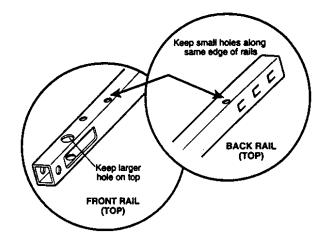
Assemble the Rail & Install the Trolley

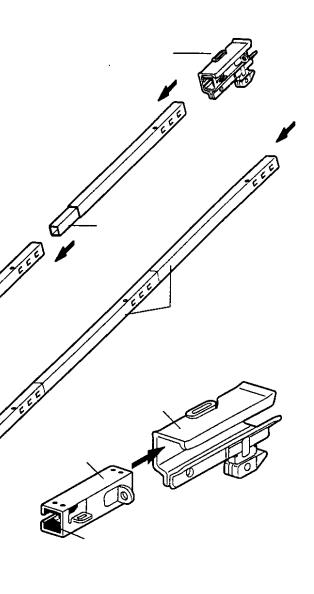
The front rail has a cut out "window" at the door end (see illustration). The hole above this window is larger on the top of the rail than on the bottom. A smaller hole 3-1/2" away is close to the rail edge. The back rail has a similar hole close to the edge, about 4-3/4" from the far end. A 3-piece rail uses two back rails.

Preferred assembly is to position the rails right side up, with the small holes along the same edge.

- Remove the straight door arm and clevis pin packaged inside the front rail and set aside for Installation Step 12.
- Align the rail sections on a flat surface exactly as shown and slide the tapered ends into the larger ones. Tabs along the side will lock into place.
- Place the powerhead on packing material to protect the cover, and rest the back end of the rail on top. For convenience, put a support under the front end of the rail.
- As a temporary trolley stop, clamp a locking pliers onto the rail, 8" from the center of the idler pulley hole, as shown.
- Check to be sure there are 4 black plastic wear pads inside the inner trolley. If they became loose during shipping, check all packing material. Snap them back into position as shown.
- 6. Connect the inner and outer trolleys as shown.

7. Slide the trolley assembly along the rail from the back end to the locked pliers.

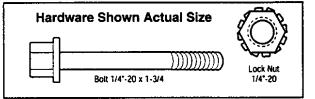




### **Assembly Step 2**

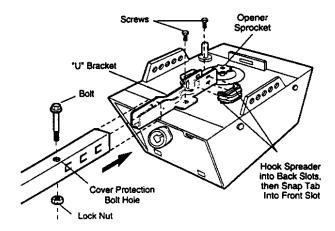
#### Fasten the Rail to the Opener

- Insert a 1/4"-20x1-3/4 bolt into the cover protection bolt hole on the back end of the rail as shown. Tighten securely with a 1/4"-20 lock nut.
- Remove the two screws from the top of the opener.
- Attach spreaders to the U bracket by snapping them into place.
- Place the U bracket, flat side down, on the opener and align the bracket holes with the screw holes.
   Fasten with the previously removed screws.
- Align the rail assembly with the top of the opener, and slide the rail end onto the U-bracket as far as it will go.





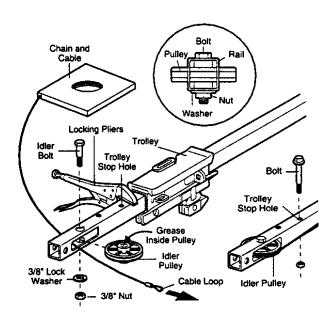
To fasten rail, use only those screws mounted in the top of the opener. Any other screws will cause serious damage to the opener.

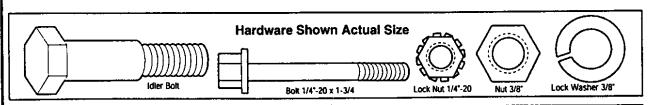


## Assembly Step 3

Install the Idler Pulley

- Lay the chain/cable beside the rail, as shown.
   Grasp the end with the cable loop and pass approximately 12" of cable through the window.
   Allow it to hang until Assembly Step 5.
- Remove the tape from the idler pulley. The inside center should be pre-greased. If dry, regrease to ensure proper operation.
- Place the idler pulley into the window as shown.
- Insert the idler bolt from the top through the rail and pulley. Tighten with a 3/8" lock washer and nut underneath the rail until the lock washer is compressed.
- Rotate the pulley to be sure it spins freely.
- Insert a 1/4"-20x1-3/4 bolt into the trolley stop hole in the front of the rail as shown. Tighten securely with a 1/4"-20 lock nut.





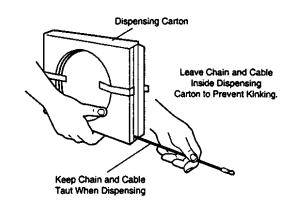
## **Assembly Step 4**

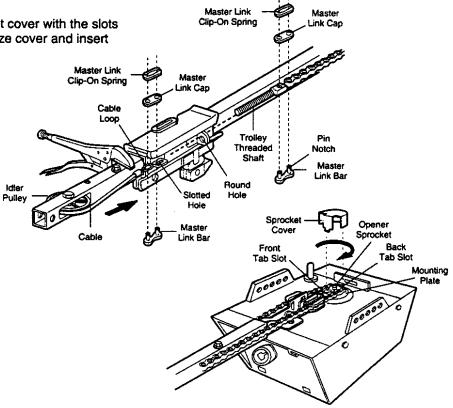
Install the Chain/Cable and Attach the Sprocket Cover

- Pull the cable around the idler pulley and toward the trolley.
- 2. Connect the cable loop to the retaining slot on the trolley, as shown:
  - From below, push pins of master link bar up through cable loop and trolley slot.
  - Push master link cap over pins and past pin notches.
  - Slide clip-on spring over cap and onto pin notches until both pins are securely locked in place.
- With the trolley against the pliers, dispense the remainder of the cable/chain along the rail toward the powerhead and around the sprocket. The sprocket teeth must engage the chain.
- Check to make sure the chain is not twisted, then connect it to the threaded shaft with the remaining master link.
- Thread the inner nut and lock washer onto the the trolley shaft.
- 6. Insert the trolley threaded shaft through the hole in the trolley. Be sure the chain is not twisted.
- Loosely thread the outer nut onto the trolley shaft.
- 8. Remove the locking pliers.
- Align the tabs on the sprocket cover with the slots in the mounting plate. Squeeze cover and insert tabs in slots.



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.





### **Assembly Step 5**

#### Tighten the Chain

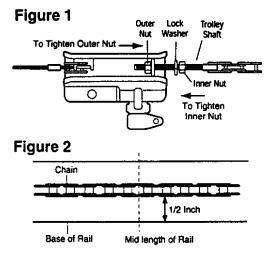
- Spin the inner nut and lock washer down the threaded shaft, away from the trolley.
- To tighten the chain, turn outer nut in the direction shown (Figure 1).
- When the chain is approximately 1/2" above the base of the rail at its midpoint, re-tighten the inner nut to secure the adjustment.

Sprocket noise can result if chain is too loose.

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

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

NOTE: You may notice loosening of chain after Adjustment Step 4 (Test the Safety Reverse System). Check for proper tension and readjust chain if necessary. Then repeat Adjustment Step 4.



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

### IMPORTANT INSTALLATION INSTRUCTIONS





## 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.

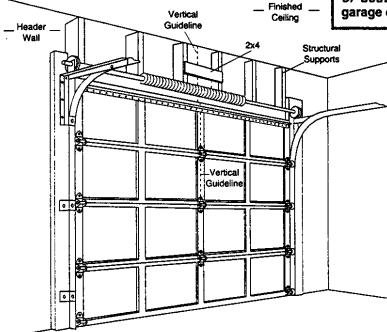
  Ropes connected to a garage door can cause entanglement and death.
- 4. If possible, install door opener 7 feet or more above floor with the emergency release handle mounted 6 feet above the floor.
- 5. Do not connect the opener to power source until instructed to do so.
- 6. Locate the Door Control 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 door control 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 Section: Pages 12 – 27

## **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





if the header bracket is not rigidly fastened to a structural support on the header wall or celling, the safety reverse system may not work properly (see page 30). 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.

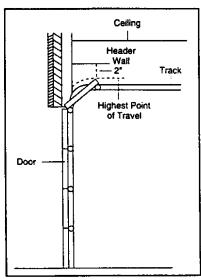
- Close the door and mark the inside vertical centerline of the garage door.
- Extend the line onto the header wall above the door.

Remember, you can fasten the header bracket within 2 feet of the left or right of the door center *only* if a torsion spring or center bearing plate is in the way; or you can attach it to the ceiling (refer to page 14) when clearance is minimal. (It may be mounted on the wall upside down if necessary, to gain approximately 1/2".)

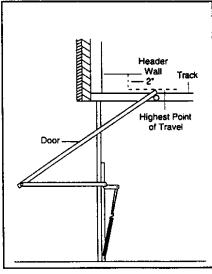
If you need to install the header bracket on a 2x4 (on wall or ceiling), use lag screws (not provided) to securely fasten the 2x4 to structural supports as shown here and on page 13.

 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.

Door clearance brackets are available for sectional doors when headroom clearance is less than 2". See accessory page 38.



Sectional door with curved track



One-piece door with horizontal track

Proceed to Step 2, page 14.

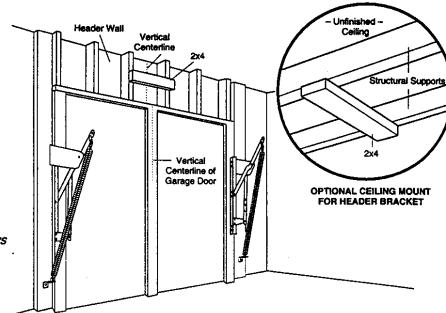
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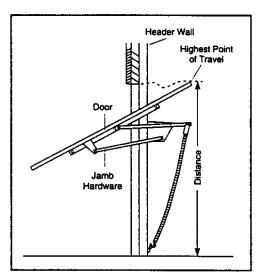
## Read the Safety instructions on page 12. They also apply to doors without tracks.

 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 14.

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

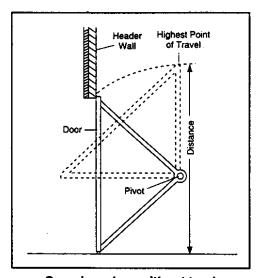




One-piece door without track jamb hardware

- 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 14 for ceiling installation.



One-piece door without track pivot hardware

#### **EXAMPLE**

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

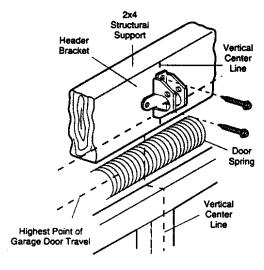
Proceed to Step 2, page 14.

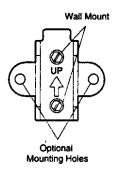
Install the Header Bracket

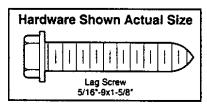
You can attach the header bracket either to the wall above the garage door, or to the ceiling. Follow the instructions which will work best for your particular requirements.

#### Wall Header Bracket Installation

- 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 the vertical set of bracket holes. Drill 3/16\* pilot holes and fasten the bracket securely to a structural support with the hardware provided.

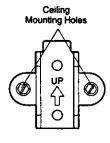


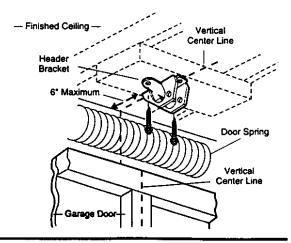




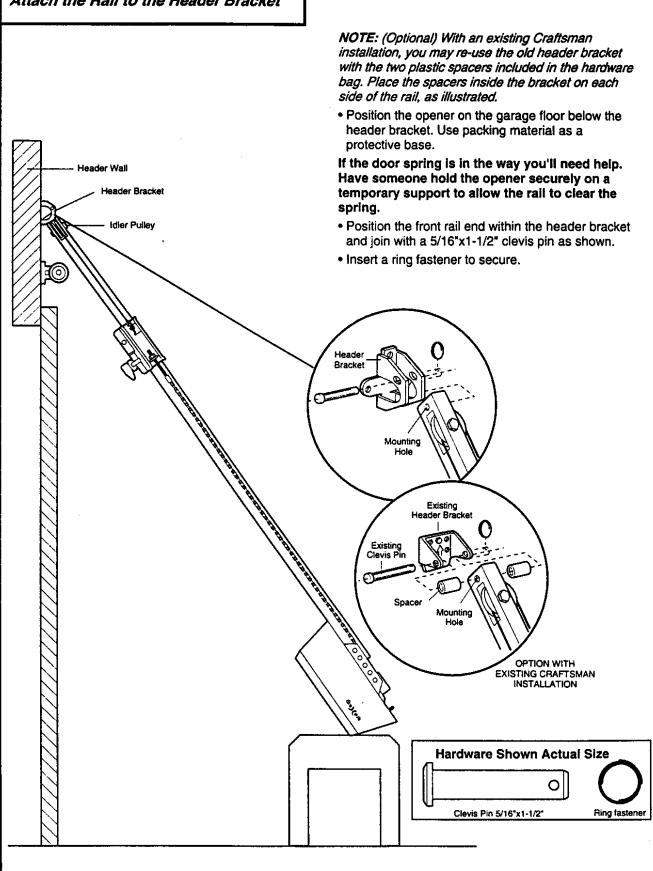
#### **Ceiling Header Bracket Installation**

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





Attach the Rail to the Header Bracket



Position the Opener

Follow instructions which apply to your door type as illustrated.



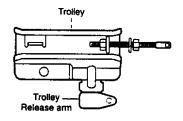
To prevent damage to steel, aluminum, fiberglass or glass panel doors, do not rest the opener on the door without using a 2x4.

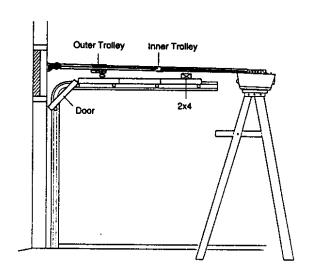
## SECTIONAL Door & ONE-PIECE Door with Track

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

- Raise the opener onto a stepladder as shown. 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.

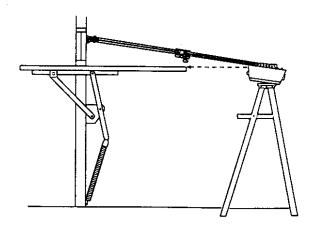
if the top panel hits the trolley when you raise the door, pull down on the trolley release arm to disconnect the inner and outer sections. The trolley can remain disconnected until Step 12 is completed.





### 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 this height (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.

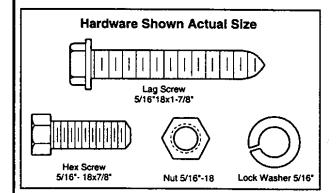


Hang the Opener

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 provided. See accessory page 38.

- Measure the distance from each side of the opener to the structural support.
- 2. 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"-18x1-7/8" lag screws.
- 5. Fasten the opener to the hanging brackets with 5/16\*-18x7/8\* 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.

**NOTE:** Do NOT connect power to opener at this time.





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

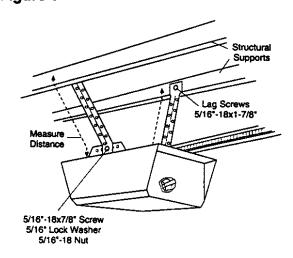
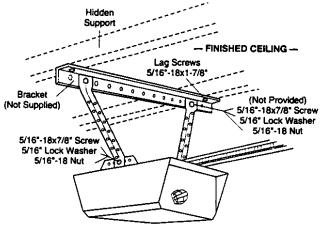


Figure 2



#### Install the Door Control

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 door control is typically attached directly to the wall. If installing into drywall, drill 5/32" holes and use the anchors provided. For pre-wired installations (as in new home construction), Console models may be mounted to a standard single gang box (Figure 2).

- Strip 1/4" of insulation from one end of the bell wire and connect it to the two screw terminals on the back of the door control: white to 2 and white/red to 1.
- Pry off cover along one side with a screwdriver blade (Figure 1). Fasten with 6ABx1-1/4" selftapping screws (standard installation) or 6-32x1" machine screws (pre-wired installation) as follows:
  - Install bottom screw, allowing 1/8" to protrude above wall surface.
  - Position bottom of door control on screw head and slide down to secure. Adjust screw for snug fit.
  - Install top screw with care to avoid cracking plastic housing. Do not overtighten.
  - Insert top tabs and snap on cover.
- (For standard installation only) 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, creating a short.
- 4. Connect the bell wire to the terminal screws on the opener panel: white to 2; white/red to 1.
- 5. Position the antenna wire as shown.

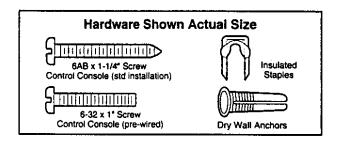


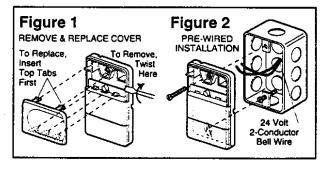
Do not connect to live electrical wiring. Connect only to 24 Volt low voltage wires. Connection to live wires or higher voltage may cause serious injury from shock, burn or electrocution.

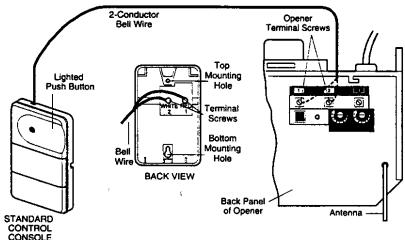
Children operating or playing with a garage door opener can injure themselves or others. The garage door could close and cause serious injury or death.

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(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.







 Attach 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.

Page 32 explains how to use the door control.

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 21.

## **Installation Step 7**

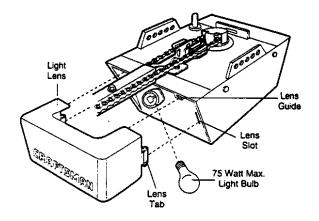
Install the Light and the Lens

#### 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 it with a standard neck "Garage Door Opener" bulb.

#### install the lens

- For convenience, the lens may be installed after Adjustment Step 4 on page 30.
- Apply slight pressure on the sides of the lens and slide the tabs into the slots in the end panel.
- Reverse the procedure to remove the lens.



## **Installation Step 8**

Attach the Emergency Release Rope and Handle

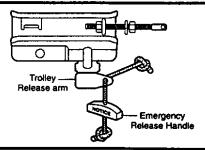
- Thread one end of the rope through the hole in the top of the red handle so "NOTICE" reads right side up as shown. Secure with an overhand knot, at least 1" from the end of the rope to prevent slipping.
- Thread the other end of the rope through the hole in the release arm of the outer trolley.
- Adjust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



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 emergency 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.



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.

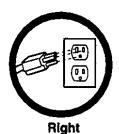
If the plug doesn't fit into the outlet you have, contact a qualified electrician to install the proper outlet.

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



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.





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

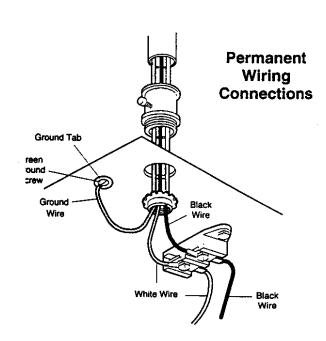


To prevent electrocution, remove power from the garage door opener and from the circuit you plan to use for the permanent connection.

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 Safety Reversing System

## IMPORTANT INFORMATION ABOUT 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.

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

The units must be installed inside the garage so that the sending and receiving eyes face each other across the door, between 4-6" above the floor. Either can be installed on the left or right of the door as long as the sun never shines directly into the receiving eye lens.

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



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 between 4-6" above the garage floor.

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

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

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

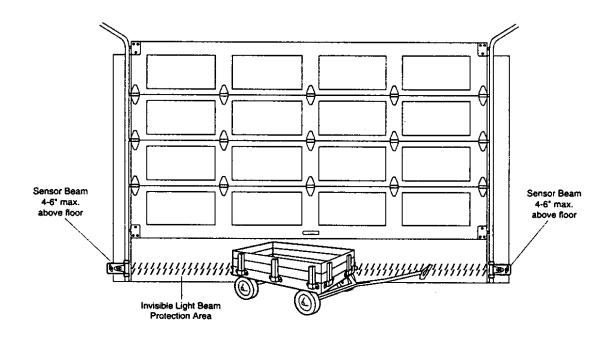


Figure 1: Facing the door from inside the garage

Install the Safety Reversing Sensor

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

Install and align the brackets so the sensors will face each other across the garage door, with the beam from 4 - 6" above the floor.

They may be installed in one of three ways, depending on your requirements, as follows.

- (Preferred) Clipped onto the left and right garage door tracks. See Figure 2.
- 2. Fastened to the wall on each side of the garage. See Figure 3.
- Fastened to the floor (see Figure 4). Concrete anchors and wood blocks or extension brackets will be needed.

#### Garage door track installation:

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

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

#### Wall installation:

- Place the bracket against the wall and make sure there is enough clearance for the sensor beam to be unobstructed.
- If additional depth is needed, an extension bracket (see Accessories) or wood blocks can be used.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on the wall at each side of the door, from 4–6" above the floor. (See warning at beginning of Installation Step 10.)
- Attach brackets to wall with lag screws (not provided).
- If using extension brackets or wood blocks, adjust right and left assemblies to the same distance out from the mounting surface. Make sure all door hardware obstructions are cleared.

#### Floor installation:

- Use wood blocks or extension brackets (see Accessories) to elevate sensor brackets so the lenses will be 4-6" above the floor.
- Carefully measure and place right and left assemblies at the same distance out from the wall.
   Be sure all door hardware obstructions are cleared.
- Fasten to the floor with concrete anchors as shown.

Figure 2 DOOR TRACK MOUNT (Right Side)

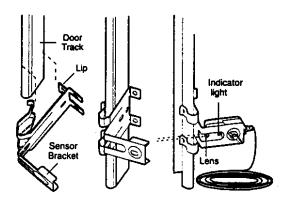


Figure 3 WALL MOUNT (Right Side)

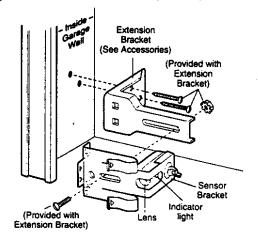
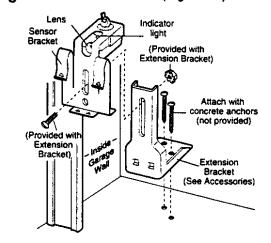
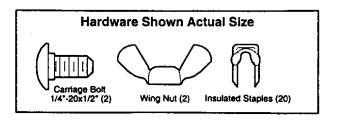


Figure 4 FLOOR MOUNT (Right Side)





#### **Mounting and Wiring the Safety Sensors**

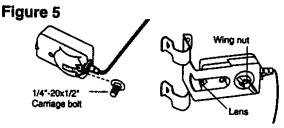
- Slide a 1/4"-20x1/2" carriage bolt head into the slot on both sensors. Use wing nuts to fasten sensors to brackets, with lenses pointing toward each other across the door. Be sure the lens is not obstructed by a bracket extension. See Figure 5.
- Finger tighten the sensor wing nuts.
- Run the wires from both sensors to the opener. Use insulated staples to secure 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. The indicator lights in both the sending and receiving eyes will glow steadily if wiring connections and alignment are correct.

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

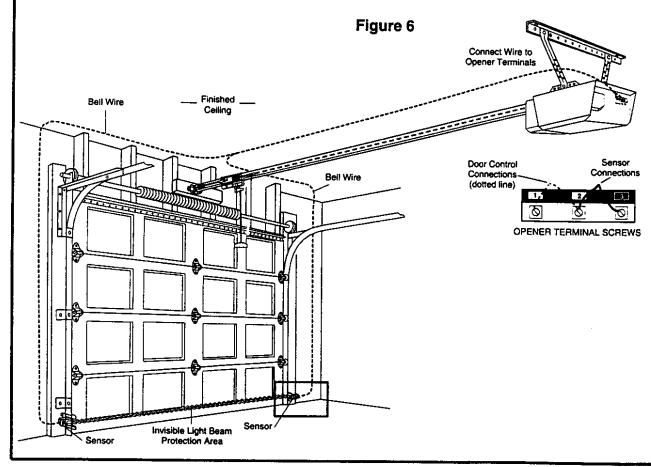
- Loosen the sending eye wing nut and readjust, aiming directly at the receiving eye. Lock in place.
- Loosen the receiving eye wing nut and adjust sensor vertically and/or horizontally until it receives the sender's beam. When the green indicator light glows steadily, tighten the wing nut.



#### **Trouble Shooting the Safety Sensors**

- 1. If the *sending eye* indicator light does not *glow* steadily after installation, check for:
  - Electric power to the opener.
  - A short in the white or white/black wires. These can occur at staples, or at screw terminal connections.
  - · Incorrect wiring between sensors and opener.
  - · A broken wire.
- 2. If the sending eye indicator light *glows steadily* but the receiving eye indicator light doesn't:
  - Check alignment.
  - · Check for a broken wire to the receiving eye.
- If the receiving eye indicator light is dim, realign either sensor.

NOTE: When the invisible beam path is obstructed or misaligned while the door is closing, the door will reverse. If the door is already open, it will not close. The opener lights will flash 10 times. (If bulbs are not installed, 10 clicks can be heard.) See page 21.



Fasten Door Bracket

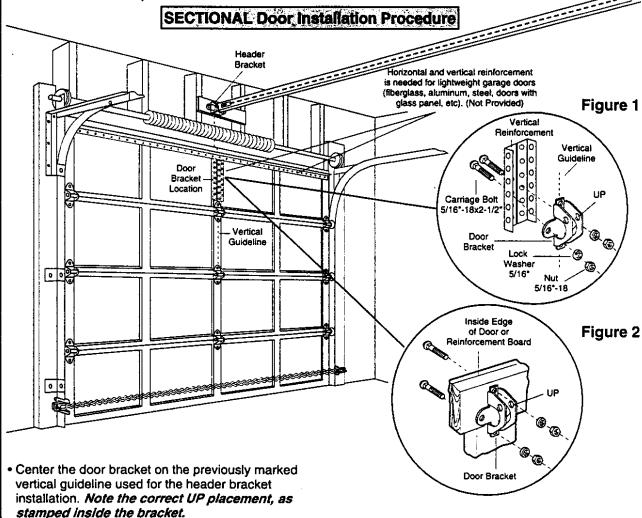
Follow instructions which apply to your door type as illustrated below or on page 25.



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.

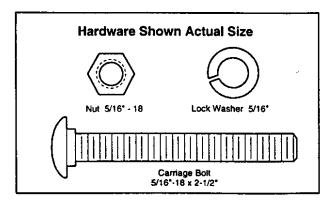
A horizontal brace should be long enough to be secured to 2 vertical supports. A vertical brace should cover the height of the top panel.

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.



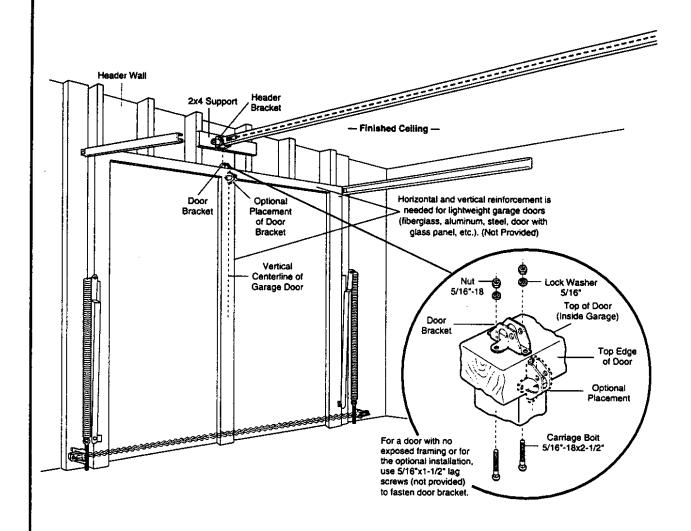
- Position the bracket on the face of the door within the following limits:
- A) The top edge of the bracket 2"-4" below the top edge of the door.
- B) The top edge of the bracket directly below any structural support across the top of the door.
- Mark and drill 5/16" left and right fastening holes.
   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, fasten as shown in Figure 2.



## ALONE PIECE Book installation Procedure

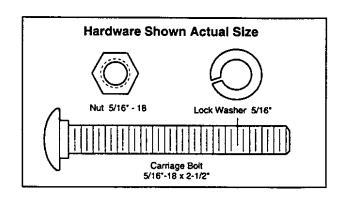
Please read and comply with the warnings and reinforcement instructions on page 24. They apply to one-piece doors also.



- 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 provided.

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 provided) 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 provided) to fasten the bracket to the door.



#### Connect Door Arm to Trolley

Follow instructions which apply to your door type as illustrated below and on page 27.

## \*SECTIONAL Doors Only &

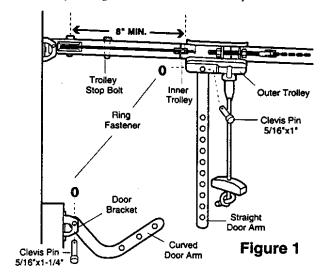
Make sure garage door is fully closed. Pull the emergency release handle to disconnect the outer trolley from the inner trolley. Slide the outer trolley back (away from the pulley) for 8" minimum as shown below.

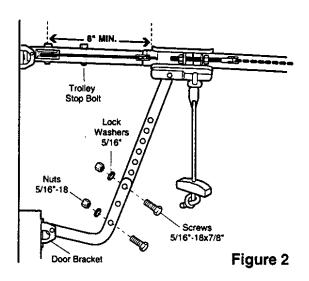
#### Figure 1:

- Fasten straight door arm section to outer trolley with the the 5/16"x1" clevis pin. Secure the connection with a ring fastener.
- Fasten curved door arm to the door bracket in the same way, using the 5/16"x1-1/4" clevis pin.



 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.

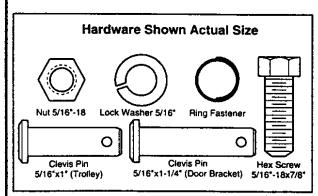




#### **Hole Alignment Alternative**

#### 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.



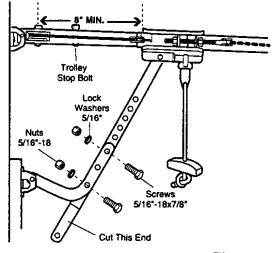


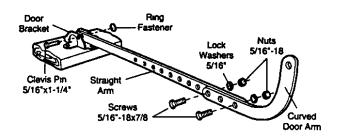
Figure 3

Proceed to Adjustment Step 1, page 28. Trolley will re-engage automatically when the opener is operated.

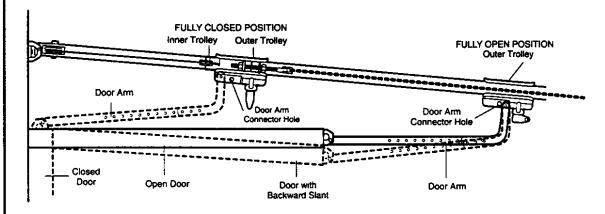
## All ONE-PIECE Doors

#### 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 the 5/16"x1-1/4" 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 28. Follow adjustment procedures below.



#### Adjustment Procedures for One-Piece Doors

#### Open Door Adjustment: Decrease UP limit

- Turn the UP limit adjustment screw counterclockwise 5-1/2 turns.
- Press the Door Control push bar or button. The trolley will travel to the fully open position.
- Manually raise the door to the open position (parallel to the floor), and lift the door arm to the trolley. The arm should touch the trolley just in back of the door arm connector hole. Refer to the fully open trolley/door arm positions in the illustration. If the arm does not extend far enough, adjust the limit further. One full turn equals 2" 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 or button. The trolley will travel to the fully closed position.
- Manually close the door and lift the door arm to the trolley. The arm should touch the trolley just ahead of the door arm connector hole. Refer to the fully closed trolley/door arm positions in the illustration. If the arm is behind the connector hole, adjust the limit further. One full turn equals 2" 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 28 - 30

## **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.

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

To operate the opener, press the Door Control push bar or 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?

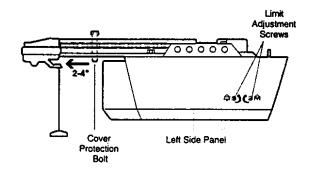
If your door passes both of these tests, no limit adjustments are necessary unless the reversing test fails (See page 30).

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

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



Improper adjustment of the travel limits 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. Test the safety reverse system following all adjustments to the travel limits. See page 30.





#### 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 the door still won't close completely and the trolley bumps into the trolley stop bolt (see page 4 or 5), try lengthening the door arm (see page 26) and decreasing the down limit. • If the opener reverses in fully closed position:

Decrease *down* travel. Turn the DOWN limit adjustment screw clockwise. One turn equals 2" 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 Sensors are either not installed, misaligned, or obstructed. See Troubleshooting, page 23.

Test the door for binding: Pull the emergency 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

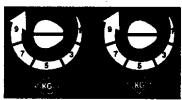
Force adjustment controls are located on the back panel of the opener. Force adjustment settings regulate the amount of power required to open and close the door.

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.

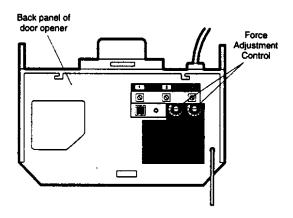
The maximum force adjustment range is 260 degrees, about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.



Adjustment Label



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 30.



#### 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 two-inch obstruction. See page 30. 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 Safety Reversing Sensor

- 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 light will flash.

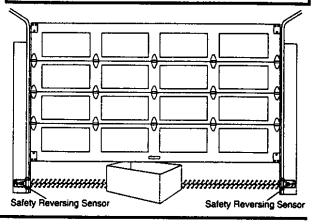
Professional service is required if the opener closes the door when the safety reversing sensor is obstructed.

The garage door opener will not close from a remote control 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 or button until down travel is completed.



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 cause the trolley to move within 2-1/2" of the trolley stop bolt. If necessary, lengthen straight door arm to maintain this minimum distance.

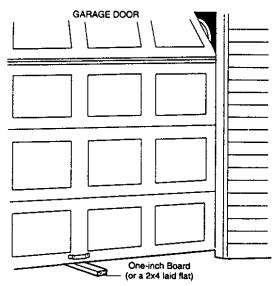
 When the door reverses on the one-inch board, remove the obstruction and run the opener through 3 or 4 complete travel cycles to test adjustment.

If the door will not reverse after repeated adjustment attempts, call Sears Service Center for garage door opener service.





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 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**





## 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.
- 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 30. The garage door MUST reverse on contact with a one-inch (or a 2x4 board laid flat) object 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.
- Disconnect the electric power to 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



(Located on the left side panel)

**Force Controls** 



Adjustment Label (Located on the right side panel)

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

Pages 28 and 29 refer to the limit and force adjustments. Only a screwdriver is required. Follow the instructions carefully.

Repeat the safety reverse test (page 30) after any adjustment of limits or force.

#### The remote control

The lithium battery should produce power for up to 5 years. To replace battery, use the visor clip or screwdriver blade to pry open the case, as shown. ("Open" location is stamped on back of transmitter case.) Insert battery

positive side down.

Replace cover as follows. 3-Function remote: Insert the 3 tabs at the opposite end and snap shut.

Dispose of old batteries properly.



WARNING

Keep batteries away from small children. If swallowed, promptly notify doctor.

#### 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 28 and 29.)

Repeat the safety reverse test. Make any necessary adjustments (See page 30).

#### Twice a Year

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

#### Once a Year

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

### **Operation of Your Opener**

#### Activate the opener with any of the following:

- The Remote Control: Hold push button down until the door starts to move.
- The Door Control: Hold push button down until the door starts to move.
- The Outdoor Key Switch or Keyless Entry. (See Accessories)

## When the opener is activated with the safety reversing sensor installed and correctly aligned:

- 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).
- 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 lights 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 not aligned correctly, the door won't close from any remote control. You can close the door with the Door Control, the Outdoor Key Switch, 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 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. It 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.

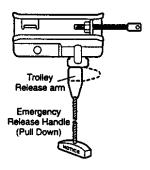
## Operation of the Door Control (see page 18)

Press the lighted push button to open or close the door.

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

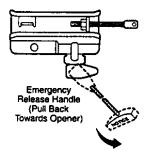


Weak or broken springs could allow an open door to fall (either rapidly or unexpectedly), resulting in serious injury, death or property damage. If possible, use the emergency release rope and handle only when the door is fully closed.



Manual disconnect position

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



To Reconnect

To re-engage the trolley: Pull the emergency release handle toward the opener at a 45° degree angle so that the trolley release arm is horizontal. The trolley will reconnect on the next UP or DOWN operation, either manually or by pressing the Door Control push button or the remote.

## **Receiver and Remote Control Programming**

## SECURITY #

Your garage door opener receiver and remote control have been pre-set at the factory. The door will open when you press the LARGE remote control push button. The code between the remote control and the receiver changes with each use, randomly accessing over 100 billion new codes.

The 3-function remote control can also activate additional SECURITY garage door openers and/or light controls.

Your SECURITY opener will operate with:

- several SECURITY+ remote controls (with blue push buttons) utilizing up to 8 functions.
- one SECURITY

   Keyless Entry System (Model 139.53684).

Follow the instructions below to program your opener to match any additional remotes you may purchase. See Accessories on page 38.

#### To Add A Remote Control

#### If you have a Premium Control Console:

- 1. With the door closed, press and hold a remote control push button. See Figure 1.
- Press and hold the Light button on the door control.
- 3. Press and hold the door control push button.
- 4. After the opener light flashes, release all buttons. Test by pressing the remote push button.

#### If you do not have a Premium Control Console:

- 1. Press and *hold* the selected remote control push button. See Figure 1.
- 2. Then press and release the SRT (learn) button on the back panel of the opener, 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.

Test by pressing the remote push button.

#### To Erase All Remote Control Codes

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

To comply with FCC 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.



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.

#### Figure 1

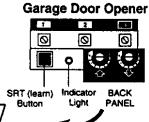
Select a remote control push button to operate opener



3-Function
Remote Control

Figure 2

SECURITY+



Code programming instructions are also located on the opener panel.

## Having a Problem?

#### Situation

#### **Probable Cause and 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 11.
- 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 the remote control, but not from the Door Control:

- Is the Door Control 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 18.

#### The door operates from the Door Control, but not from the remote control:

- Is any door push button flashing? If your model has the Lock feature, make sure the lock is Off.
- 2. Your opener needs to re-learn a remote control code. Refer to Instructions on the opener panel.
- 3. Program the receiver to match the remote control code.
- 4. Repeat the receiver programming procedure with all remote controls.

#### The remote control has short range:

- 1. Change the location of the remote control in your car.
- Check to be sure the antenna on the side or back panel of opener extends fully downward.
- Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage siding. (Antenna Extender Kit 41A3504)

## 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 are off.
- 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.
- 3. Clear memory and reprogram all remote controls.

## The door doesn't open completely:

- 1. Is something obstructing the door? Remove the obstruction or repair the door.
- 2. If the door has been working properly but now doesn't open all the way, increase the *up force*. See page 29.
- 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 28.

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 28.

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 23.
- If the opener lights do not blink and it is a new installation, check the down force.
   See Adjustment Step 2, page 29. 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:

- Is something obstructing the door? Pull the red emergency 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 29.
- 4. If door reverses in the fully closed position, decrease the travel limits (page 28).

  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 23.

#### The opener light:

#### ... doesn't turn on:

Replace the light bulbs (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 emergency 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

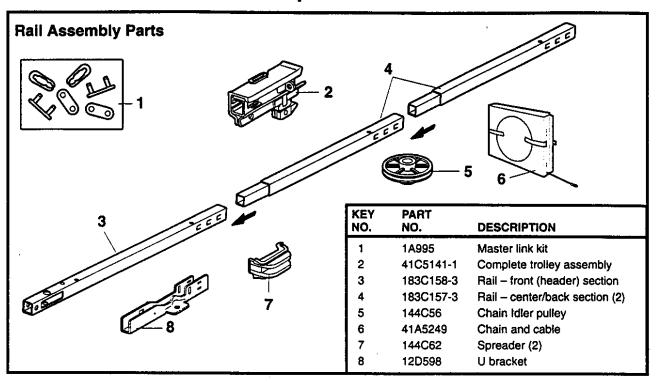
- Use the emergency release to disconnect the trolley. The door can be opened and closed manually. When the power is restored, press the Door Control push bar or button and trolley will automatically reconnect (unless trolley is in lockout position.) See page 32.
- 2. The Emergency Key Release accessory (for use on garages with no service door) disconnects the trolley from outside the garage in case of power failure.

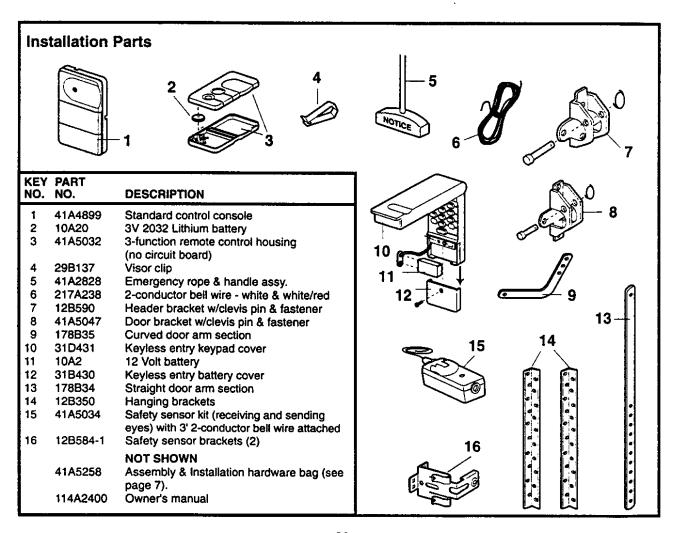
## The chain droops or sags:

power failure:

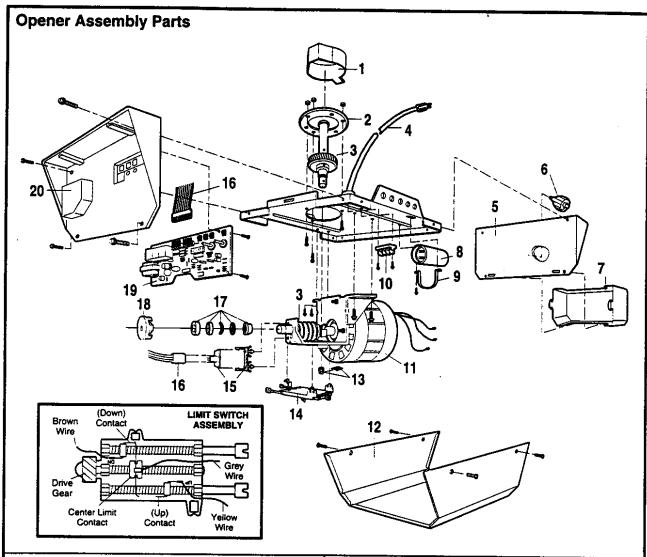
It is normal for the chain to droop slightly in the closed door position. Use the emergency release to disconnect the trolley. If the chain returns to normal height when the trolley is disengaged and the door reverses on a one-inch board, no adjustments are needed (see page 11).

## **Repair Parts**





## **Repair Parts**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	31D380 41C4220A	Sprocket cover Gear and sprocket assembly Complete with: Spring washer Thrust washer	11	41D3058	Universal replacement motor & bracket assembly Complete with: Motor, worm, bracket, bearing assembly, RPM sensor
		Retaining ring	12	41D0328-4	Cover
		Bearing plate	13	41A2818	Helical gear & retainer w/grease
		Roll pins (2) Drive gear and worm gear	14	41D3452	Limit switch assembly
		Helical gear w/retainer and grease	15	41C4398A	RPM sensor assembly
3	41A2817	Drive/worm gear kit w/grease	16	41C4246	Wire harness assembly w/plug
	_	Roll pins (2)	17	41A2826	Shaft bearing kit
4	41B4245	Line cord	18	41A2822A	Interrupter cup assembly
5 6 7	41A4352 175B88 108D48-2	End panel Light socket Lens	19	41A5021-3E	Receiver logic board assembly  Complete with:  Logic board, End panel w/all labels
8	30B363	Capacitor - 1/2HP	20	41A3691	End panel
9	12A373	Capacitor - 1/2/1/2			NOT SHOWN
10	41A3150	Terminal block w/screws		41A2825	Opener assembly hardware kit (includes screws not designated by a number in illustration).

#### **Accessories**

Sears offers many useful accessories for your garage door opener. They are illustrated below with Sears model numbers and descriptions.					
139.53702	Emergency Key Release: Required for a garage with NO access door. Enables homeowner to open garage door manually from outside by disengaging trolley.	139.53681	SECURITY+ 3-Function Remote Control: Includes visor clip.		
139.53703	Outdoor Key Switch: Operates the garage door automatically from outside when remote control is not handy.	139.53680	SECURITY+ Compact 3-Function Remote Control: With loop for attaching key ring.		
53724	8 Foot Rail Extension To allow an 8 foot door to open fully.	139.53684	SECURITY+ Keyless Entry: Enables homeowner to operate garage door opener from outside by entering a 4 digit code on specially designed keypad.		
53725	10 Foot Rail Extension: To allow a 10 foot door to open fully.	139.53686	Plug-in Light Control: Enables homeowner to turn on a lamp, television or other appliance from car, bedside, or anywhere in the home with a remote.		
53589	Support Brackets: For finished ceilings or where additional support is required, based on garage construction. Includes brackets and fastening hardware.	139.53709	Door Clearance Brackets: (For Sectional Doors Only) Replaces top brackets and rollers on door to reduce height of door travel. For use when installing opener in garage with low headroom clearance.		
41A5281	Extension Brackets: (Available only through Sears Parts & Service) (Optional) For safety sensor installation onto the wall or floor.				

#### To Add the Keyless Entry

We recommend that you program your password before you install the Keyless Entry. You will not need assistance, and you can test the reception at the mounting location before installation.

#### If you have a Premium Control Console:

- 1. With the door closed, press the four digit password 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 flashes, release all buttons.

#### If you do not have a Premium Control Console:

- Choose a 4-digit password using 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 password, then press and *hold* the Enter button. The indicator light on the door opener panel will blink.
- 3. Press and release the SRT (learn) button on the opener panel. After the opener light flashes, release the Enter button.

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

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#### For in-home major brand repair service:

Call 24 hours a day, 7 days a week

1-800-4-MY-HOME<sup>SM</sup> (1-800-469-4663)

Para pedir servicio de reparación a domicilio - 1-800-676-5811

## For the repair or replacement parts you need:

Call 6 a.m. – 11 p.m. CST, 7 days a week PartsDirect<sup>™</sup>

1-800-366-PART (1-800-366-7278)

www.sears.com/partsdirect

Para ordenar piezas con entrega a domicilio - 1-800-659-7084

#### For the location of a Sears Service Center in your area:

Call 24 hours a day, 7 days a week

1-800-488-1222

#### To purchase or inquire about a Sears Maintenance Agreement:

Call 7 a.m. - 5 p.m. CST, Monday - Saturday

1-800-827-6655



#### **SEARS WARRANTY**

#### **FULL 90-DAY WARRANTY ON GARAGE DOOR OPENER**

For 90 days from the date of purchase, Sears will repair this Garage Door Opener, free of charge, if defective in material or workmanship.

#### LIMITED WARRANTY

From the 91st day until one year from the date of purchase, Sears will furnish replacement parts for any defective parts, free of charge. You pay for labor.

#### LIMITED WARRANTY ON MOTOR

1/2HP MOTOR: After 1 year and through 5 years, if the motor on this Garage Door Opener is defective, Sears will furnish a replacement motor, free of charge. You pay for labor.

#### **LIMITATION ON LIABILITY**

SEARS WILL NOT BE LIABLE FOR LOSS OR DAMAGE TO PROPERTY OR ANY INCIDENTAL OR CONSEQUENTIAL LOSS OR EXPENSE FROM PROPERTY DAMAGE DUE DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty does not cover light bulbs or repair parts necessary because of operator abuse or negligence, including the failure to install, adjust and operate this garage door opener according to instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY SIMPLY CONTACTING THE NEAREST SEARS CENTER/DEPARTMENT IN THE UNITED STATES.

This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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