

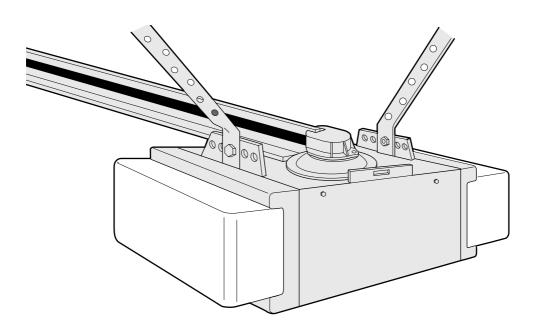
The Chamberlain Group, Inc. A DUCHOSSOIS ENTERPRISE 845 Larch Avenue Elmhurst, Illinois 60126-1196

Complies with UL 325 Regulations effective January 1, 1993



### Garage Door Opener OWNER'S MANUAL Model 1280 - 1/2 HP -

For Residential Use Only



- 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<sup>®</sup> 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 left side panel of your opener as shown.

ContentsPageA review of safety alert symbols2	ContentsPageThe Protector® System
Safety information regarding garage door locks and ropes	safety reversing sensor information17 Install the safety reversing sensor
Testing your garage door for sticking, binding and balance	Fasten door bracket (sectional door)20 Fasten door bracket (one-piece door)21 Connect door arm to trolley (sectional door)22 Connect door arm to trolley (one-piece door)23 Adjustment section - pages 24 – 26
Assembly section - pages 6 – 7 Fasten T-rail to opener	Travel limit adjustments24Force adjustments25Test The Protector® System26Test the safety reverse system26Operation safety instructions27Care of your opener27Maintenance schedule27Operation of your opener28Receiver & remote control programming29Having a problem?30, 31Repair parts, rail assembly32
Position the opener	Repair parts, installation32Repair parts, opener assembly33Accessories34Index35How to order repair parts36Warranty36

### 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.

# 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.

# 

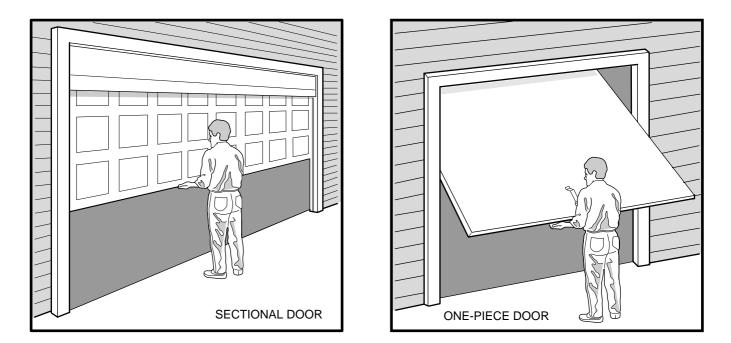
To avoid damage to the garage door and opener, disable locks before installing and operating the opener. Use a wood screw or nail to hold locks in the "open" (unlocked) position.

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

#### Test your Door

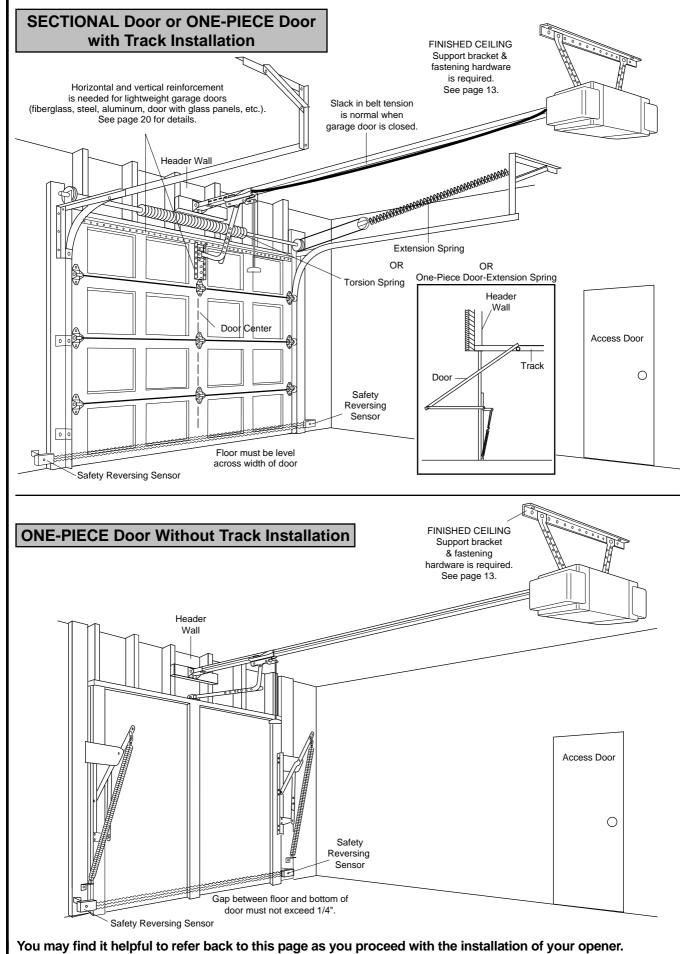
Before you begin, complete the following test to make sure your door is balanced, and is not sticking or binding:

- 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.



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

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

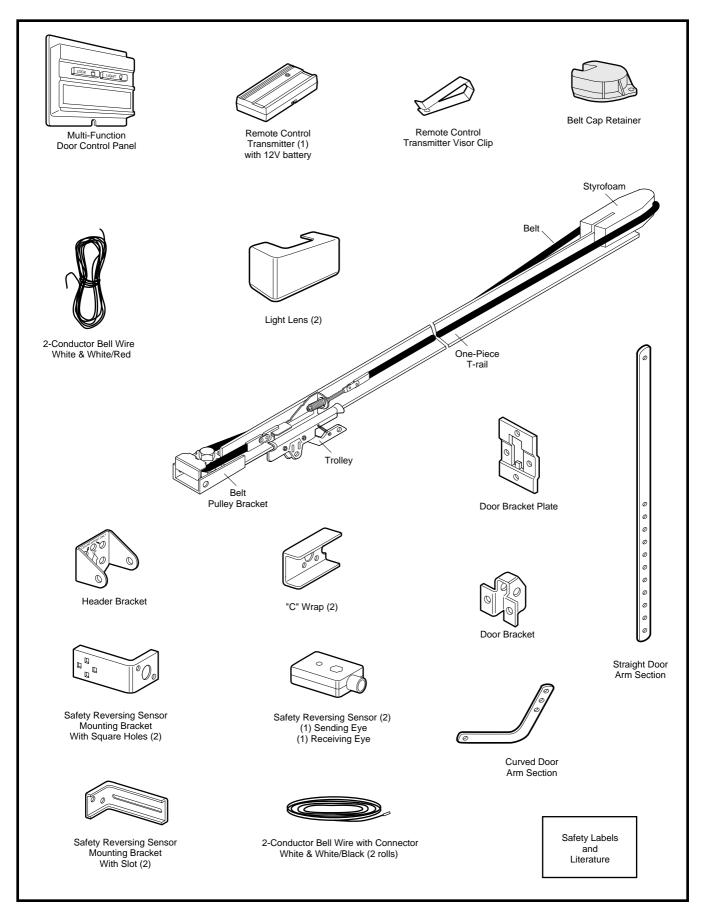


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4

### **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 is listed on page 4.



5

### Assembly Section: Pages 6 - 7

### ASSEMBLY STEP 1

### Attach the T-Rail To the Opener

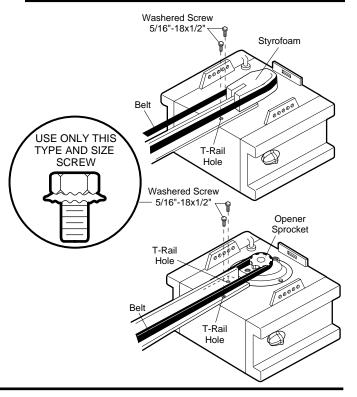
- Remove the two washered screws mounted in top of opener.
- Align T-rail and styrofoam over opener sprocket.
- Cut tape from T-rail, belt and styrofoam.
- REMOVE STYROFOAM.
- Insert both washered screws through the T-rail into the opener. Tighten both screws securely .

USE ONLY THESE SCREWS! Any other screws will cause serious damage to the opener.

Position belt over the opener sprocket.

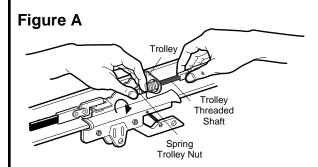


To fasten rail, use only those screws mounted in the top of the opener. Any other screws will cause serious damage to the opener.

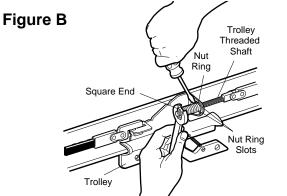


### ASSEMBLY STEP 2

### Set the Belt Tension

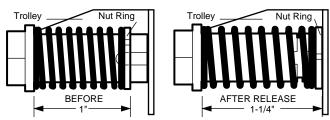


- By hand, thread the spring trolley nut on the threaded shaft until it is finger tight against the trolley (Figure A). *Do not use any tools.*
- Insert a screwdriver tip into one of the nut ring slots and brace it firmly against the trolley (Figure B).



• Place a 7/16" open end wrench on the square end. Rotate about 1/4 turn until the spring releases and snaps the nut ring against the trolley (Figure C). This extends the spring for optimum belt tension.

### Figure C



### **ASSEMBLY STEP 3** WARNING Attach the Belt Cap Retainer Serious injury can result if fingers become entangled in moving opener sprocket. Attach sprocket cover securely. Never operate opener • Position the belt cap retainer over the opener while your hand is near the opener sprocket. sprocket so the two holes in cap align with the two holes in mounting plate. Attach with #8x3/8" hex screws provided. Hex Screws # 8 x 3/8" Belt Cap Retainer **Opener Sprocket** Mounting Plate Hardware Shown Actual Size Belt 0 Hex Screw #8 x 3/8'

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

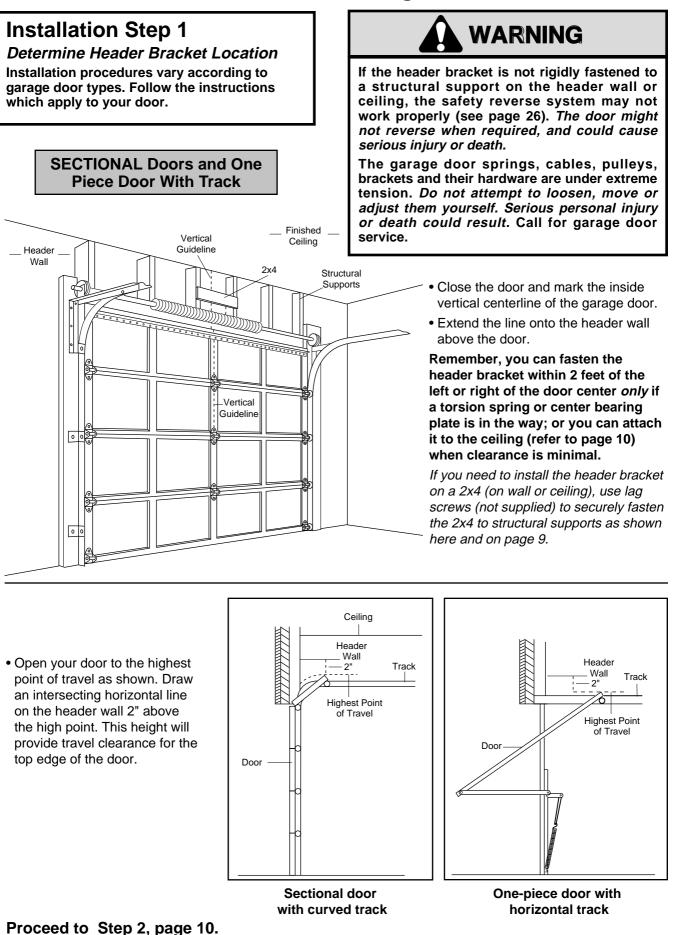
# IMPORTANT INSTALLATION INSTRUCTIONS

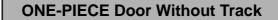




### To reduce the risk of severe injury or death to persons:

- 1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS
- 2. Install only on a properly balanced and lubricated garage door. *An improperly balanced door 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 oneinch 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.



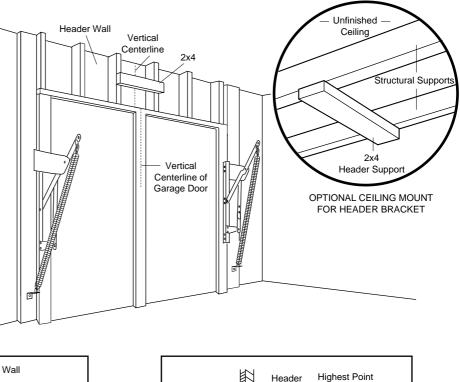


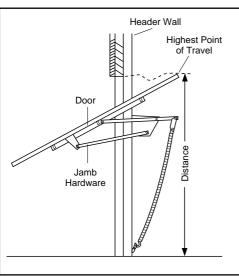
### Read the Safety Instructions on page 8. They also apply to doors without tracks.

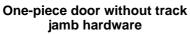
• Close the door and mark the inside vertical centerline of your garage door. Extend the line onto the header wall above door.

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.

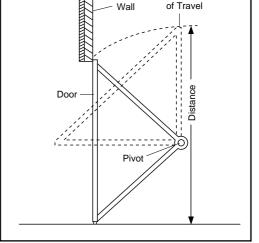






- Open your door to the highest point of travel as shown. Measure the distance from the top of the door to the floor. Subtract the actual height of the door. Add 8" to the remainder. (See Example).
- Close the door and draw an intersecting horizontal line on the header wall at the determined height.

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.



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	88"
Remainder	4"
Add	<u>+8"</u>
Bracket height on header wall	.=12"
(Measure UP from top of CLOSED door.)	

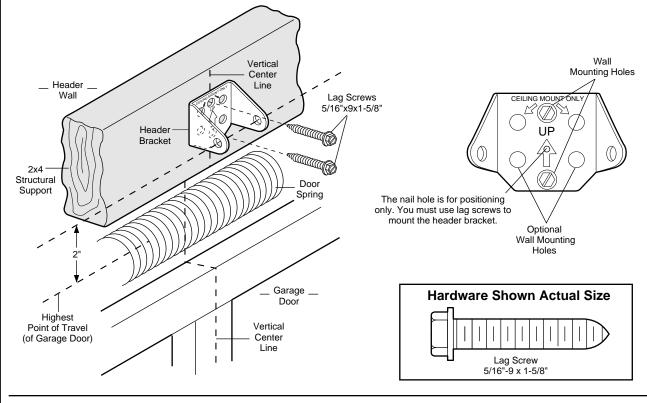
Proceed to Step 2, page 10.

### 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.

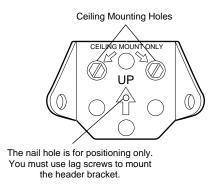
### Fasten the Header Bracket to the Wall

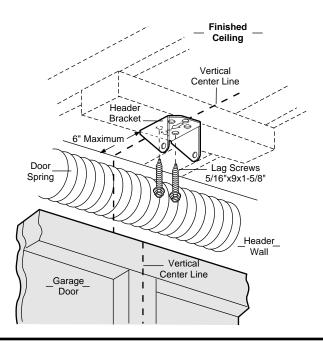
- Center the bracket on the vertical guideline with the bottom edge of the bracket on the horizontal line as shown (with the arrow pointing toward the ceiling).
- Mark either set of bracket holes (do not use the holes designated for ceiling mount). Drill 3/16" pilot holes and fasten the bracket securely to a structural support with the hardware provided.



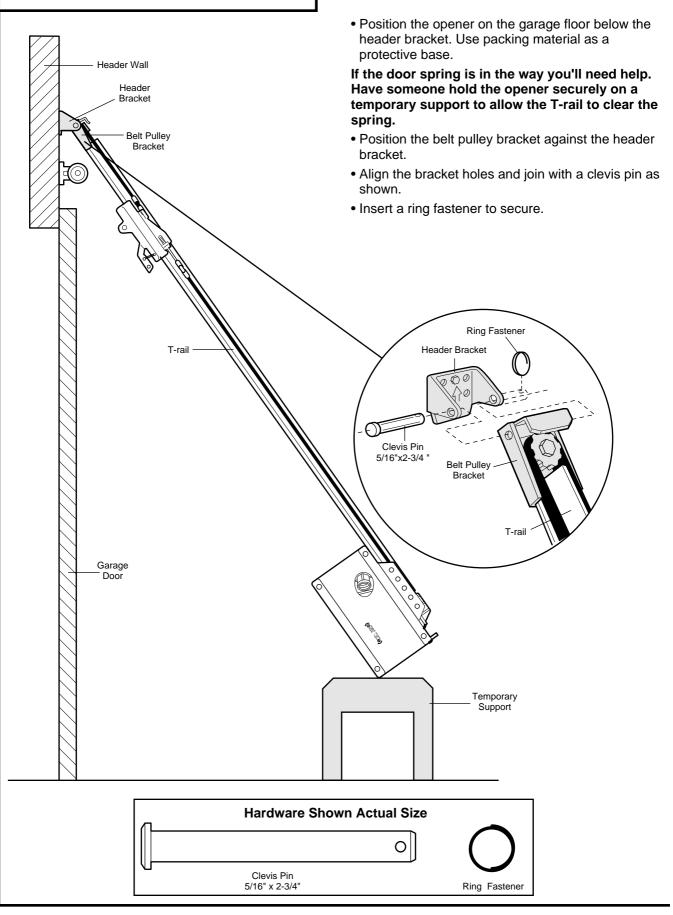
### Fasten the Header Bracket to the Ceiling

- 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 bracket securely to a structural support with the hardware provided.





Attach the T-rail to the Header Bracket



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### 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

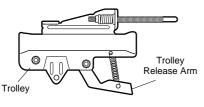
## A 2x4 laid flat is convenient for setting an ideal door-to-T-rail distance.

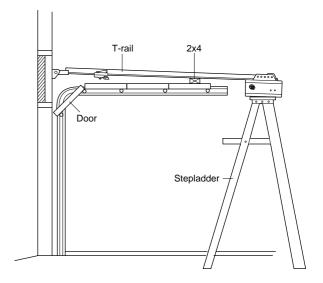
Raise the opener onto a stepladder.

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.

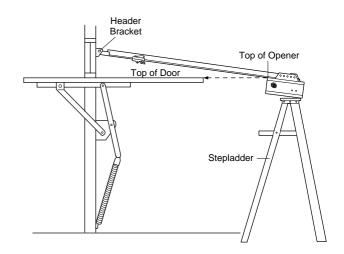
If the top panel hits the trolley when you raise the door, pull down on the trolley release arm to disconnect the inner and outer sections. The trolley can remain disconnected until Step 12 is completed.





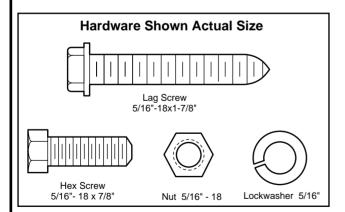
### **ONE-PIECE** Door without Track

- 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.



### Hang the Opener

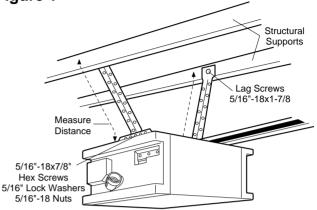
### Two representative installations are shown. Yours may be different. Hanging brackets should be angled, Figure 1, to provide rigid support. On finished ceilings, Figure 2, attach a sturdy metal bracket to structural supports before installing the opener. The bracket and fastening hardware are not 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" - 18x1-7/8" lag screws. • 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. Grease the top and underside of the rail surface where the trollev slides. A tube of grease is supplied.



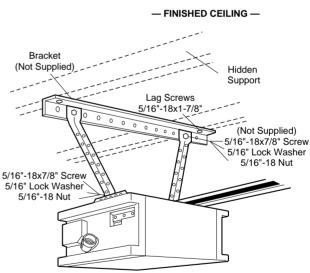
# WARNING

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

### Figure 1



### Figure 2

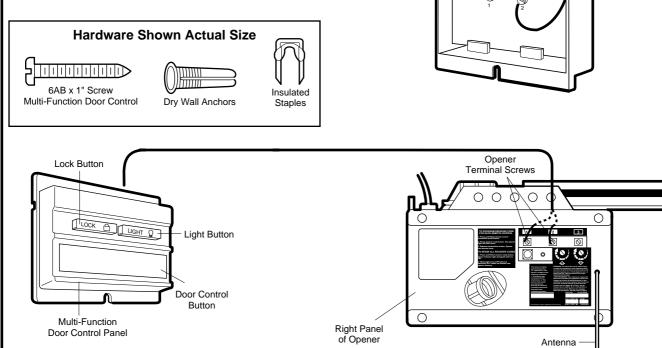


### Installation Step 6 Install the Multi-Function Door Control Panel

- 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 by color: 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 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, creating a short.
- Receiver terminal screws and the antenna are located on the right 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 lighted push button and the Lock & Light features available on the Multi-Function Door Control Panel.



# 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).

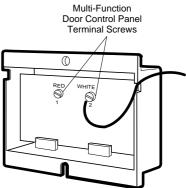
A moving garage door could injure someone under it. Activate the opener only when the door is properly adjusted, you can see it clearly, and there are no obstructions to door travel.

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**

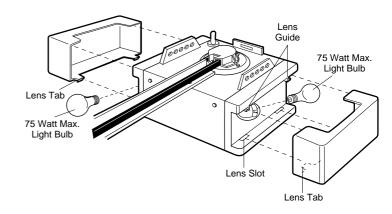
To opener terminal screws: white to 2; white/red to 1

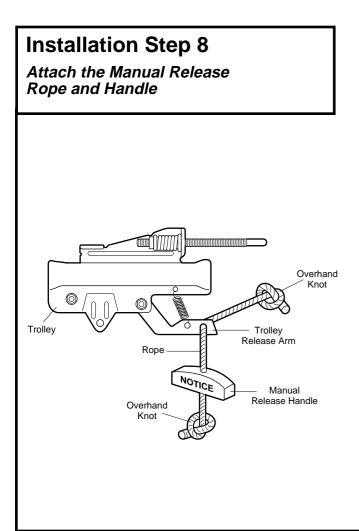


<sup>14</sup> 

### Install the Lights and the Lenses

- 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 them with "Garage Door Opener" bulbs.
- Slide lenses into guides as shown. Snap bottom tabs into lens slots.
- For convenience, the lenses may be installed after Adjustment Step 4 on page 26.
- Reverse the procedure to remove the lenses.





# WARNING

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

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

• Thread one end of the rope through the hole in the top of the red handle so "NOTICE" reads right side up as shown. Secure with an overhand knot.

### The knot should be at least 1" from the end of the rope to prevent slipping.

- Thread the other end of the rope through the hole in the release arm of the outer trolley.
- Adjust rope length so the handle is 6 feet above the floor. Secure with an overhand knot .

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

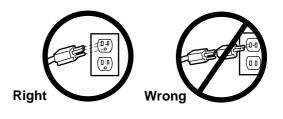
### Electrical Requirements

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 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:

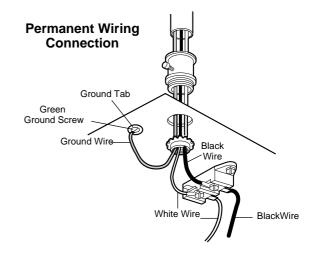
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*To prevent electrocution*, remove power from the garage door opener *and* from the circuit you plan to use for the permanent connection.

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.

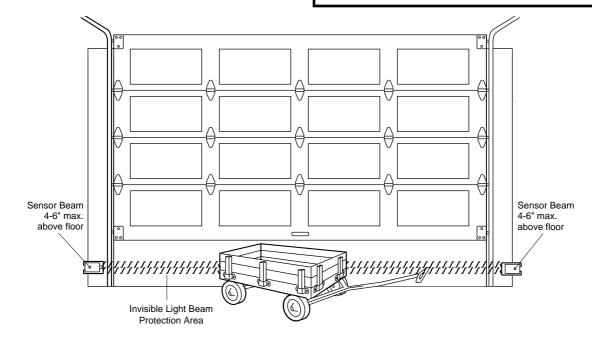


Figure 1 Facing the door from inside the garage

#### 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.

### 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 2.

### Garage Wall Installation Procedure

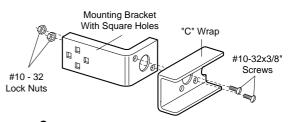
- Connect each assembly to a slotted bracket, using the hardware shown in 3. Note alignment of brackets for left and right sides of the door.
- Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on both sides of the garage door, 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 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

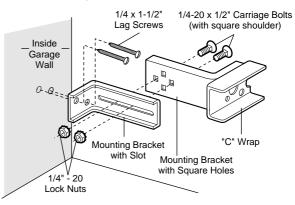
Discard slotted bracket. Drill 3/8" holes in each track and fasten securely with hardware as shown in 4.

### Figure 2

### Garage WALL or DOOR TRACK Installation

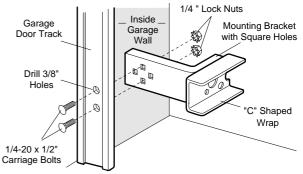


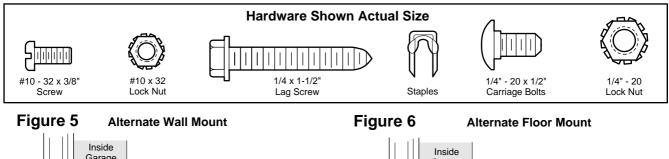
#### Figure 3 Garage WALL Installation

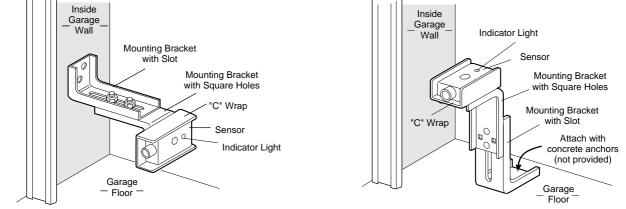


### Figure 4

### Garage DOOR Track Installation







- Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door (see Figure 7).
- Secure sensors with the hardware shown. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.
- Run the wires from both sensors to the opener. 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.

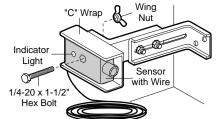
### Aligning the Safety Sensors

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

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

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

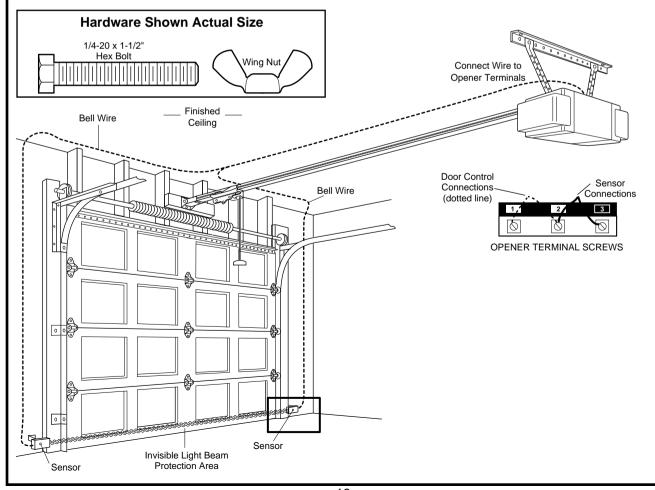




### **Trouble Shooting**

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

**NOTE:** When the invisible beam path is obstructed or misaligned while the door is closing, the door will reverse. If the door is already open, it will not close. The opener lights will flash 10 times. (If bulbs are not installed, 10 clicks are audible.) See page 17.



<sup>19</sup> Download from Www.Somanuals.com. All Manuals Search And Download.

### Fasten Door Bracket

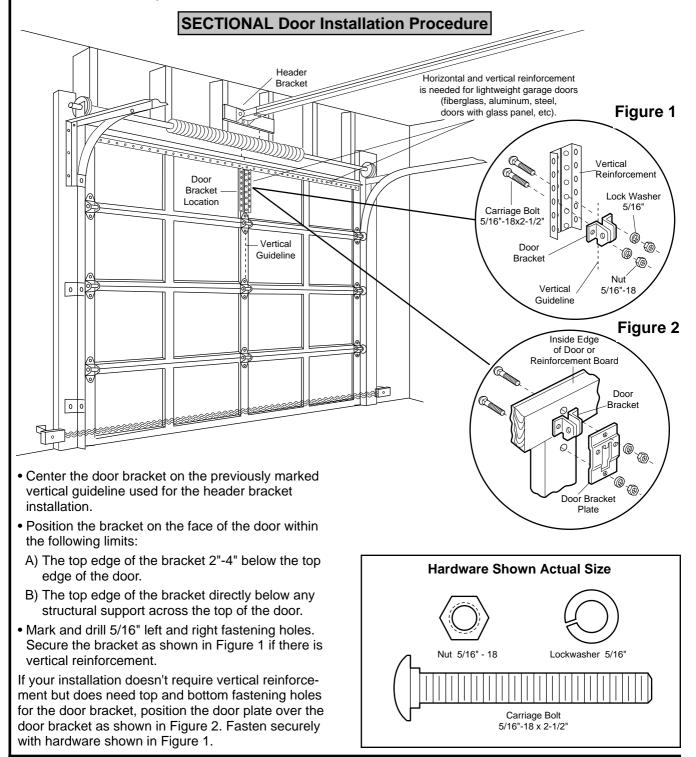
Follow instructions which apply to your door type as illustrated below or on page 21.

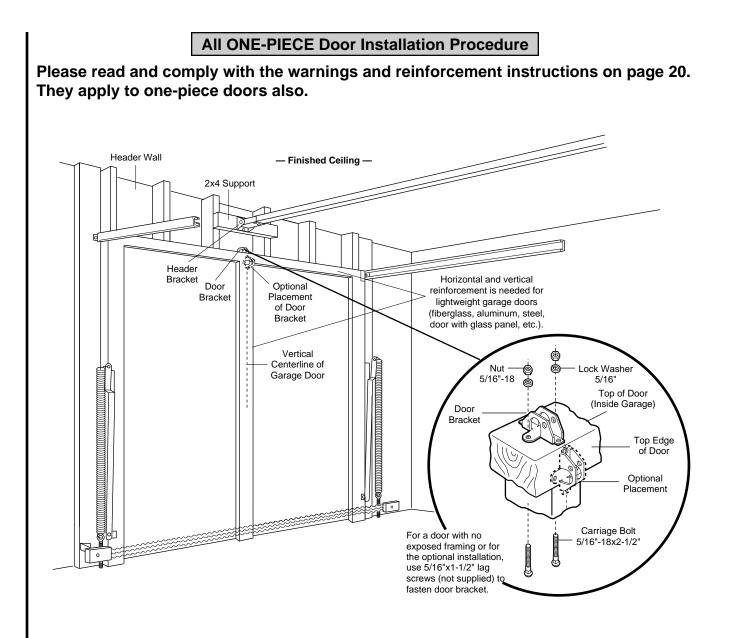


To prevent damage to steel, aluminum, fiberglass or glass panel doors, always reinforce the inside of the door both vertically and horizontally with an angle iron.

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.

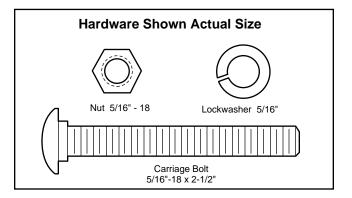




- Center the bracket on the top of the door, in line with the header bracket as shown. Mark holes.
- Drill 5/16" pilot holes and fasten the door bracket with hardware supplied.

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.



### 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 emergency 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 1-3.

#### 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.

Outer Trolley

Ring Fastener

Door

Bracket

Inner Trolley

Curved

Door Arm

Clevis Pin

Figure 1

Straight

Door Arm

#### 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.

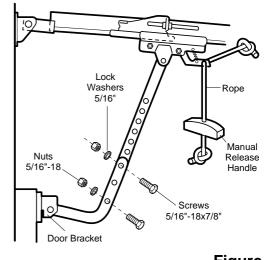


Figure 2

### Hole Alignment Alternative

### Figure 3:

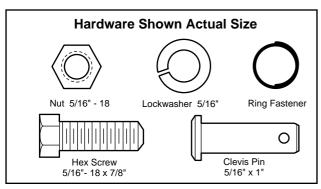
Clevis Pin

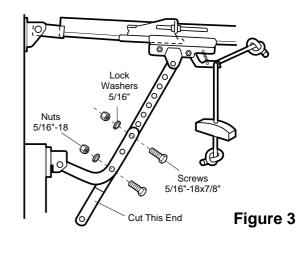
- If holes in curved arm are *above* holes in straight arm, disconnect straight arm. Cut about 6" from the solid end. Reconnect to trolley with *cut end down* as shown.
- Bring arm sections together.

0

C

• Find two pairs of holes that line up and join with screws, lock washers and nuts.



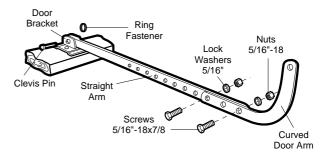


Proceed to Adjustment Step 1, page 24. Trolley will re-engage automatically when the opener is operated.

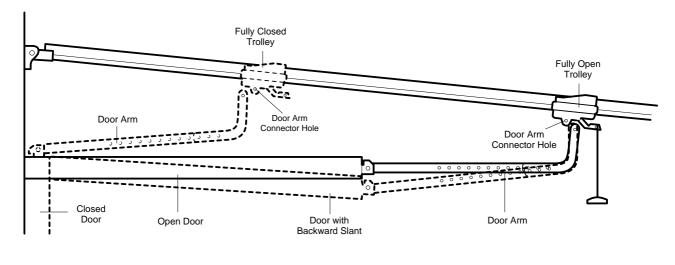
### **All ONE-PIECE Doors**

#### 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 counterclockwise 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 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).

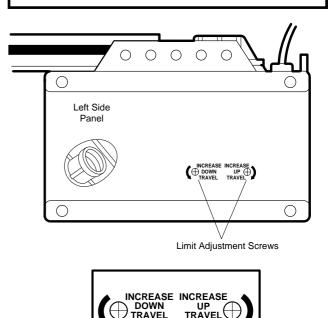
Adjustment procedures are outlined below. Run the opener through a complete travel cycle after each adjustment.

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 proceeding to Adjustment Step 2. Use a screwdriver to make limit adjustments.

# 

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.



Limit 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 8/9.

#### 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 right panel of the opener. Force adjustment settings regulate the amount of power required to open and close the door.

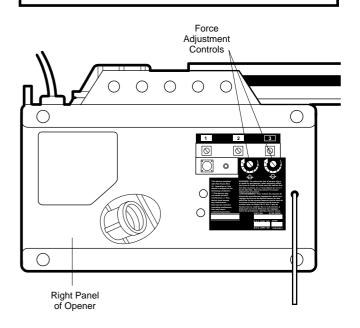
The door will *stop* in the *up* direction if anything interferes with its travel. The door will *reverse* in the *down* direction if anything interferes with its travel (including binding or unbalanced doors).

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.

# 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.





Force Adjustment Label

### 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 remote 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.

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

### 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.

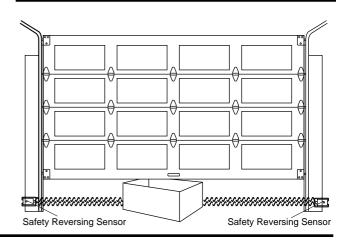
On a sectional door, make sure limit adjustments do not force the door arm beyond a straight up and down position. See the illustration on page 22.

• When the door reverses on the one-inch 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 for professional garage door service.

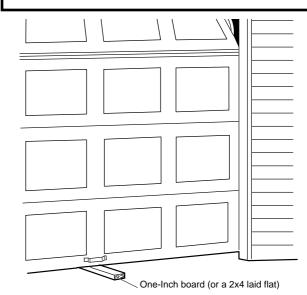
# WARNING

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.





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 1–4 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.
- 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 one of the controls (either force or limits of travel), the other control may need to be adjusted also, and the safety reversal system must be checked. Failure to properly adjust the opener may result in severe injury or death.
- 5. If possible, use the manual release only when the door is in a closed position. Caution should be taken whenever the disconnect cord is actuated with the door open. Weak or broken springs may cause the door to fall rapidly, causing injury or death to persons.
- 6. KEEP GARAGE DOORS PROPERLY BALANCED. See page 4. 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 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

Weather conditions may cause some minor

Pages 24 and 25 refer to the limit and force

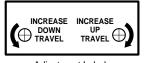
changes in door operation requiring some re-

adjustments, particularly during the first year of

adjustments. Only a screwdriver is required. Follow

Repeat the safety reverse test (page 26) after any

#### Limit Controls



Adjustment Label (Located on the left side panel)

the instructions carefully.

adjustment of limits or force.

operation.

### The remote control transmitter

The opener must learn the code of any new remote control. Page 29 explains how to program your receiver and how to erase all codes if required. Self service of your receiver and remote controls is not recommended. If service is needed, call the toll-free number listed on the back page.

#### The transmitter battery

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

If the power indicator 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

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

Once a Month

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

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

Once a Year

Oil door rollers, bearings and hinge.

The opener does not require additional lubrication.

Do not grease the door tracks.



**Force Controls** 

### **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.

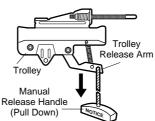
If the sensor is not installed, or is not aligned correctly, the door won't close from any remote control transmitter. You can close the door with the Door Control, the Outside Keylock, or Keyless Entry, however, if you activate them until down travel is complete. If you release them too soon, the door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



### manually: The door should be fully

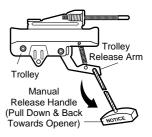
To open the door

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.

# Manual disconnect position

### The lockout feature

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



Lockout position

### **Operation of the Multi-Function Door Control Panel**

#### **Lighted 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 control the opener lights when the door is in motion.

#### Lock Feature

The Lock feature is designed to prevent operation of the door from remote controls. However, the door will *open and close* from the Door Control push bar, the Outside 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 for 2 seconds again. 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 side panel is activated.

### **Receiver & 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.

Your garage door opener receiver and remote control transmitter have been set at the factory to a matching code. The door will activate when the remote control push button is pressed.

Your "Smart" garage door opener will operate with:

- up to four "Smart" remote control transmitters (with green indicator lights),
- a Keyless Entry System, and
- code switch remote controls with red indicator lights.

Below are instructions for programming your opener to match any additional remotes you may purchase. See available accessories on page 34.

### To Add a Single Function Remote Control

- 1. Press and *hold* the remote push button (Figure 1).
- 2. Then press and release the "Smart" button on the right side panel of the opener, Figure 2. The opener lights 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.

#### To Change the Selected Push Button on the Same Remote

If you decide to use a different remote control button than originally programmed into the opener, you need to erase *all* the learned codes and reprogram each remote used to operate the garage door opener.

#### To Erase all Remote Control Codes:

- Press and hold the "Smart" button on the opener panel until the indicator light turns off (about 6 seconds). *All* 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.

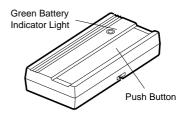
# WARNING

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.

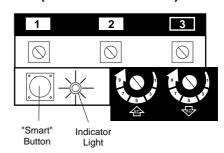
### Figure 1

Model 81LM "Smart" Single Function Remote Control



### Figure 2

Garage Door Opener (With "Smart" Button)



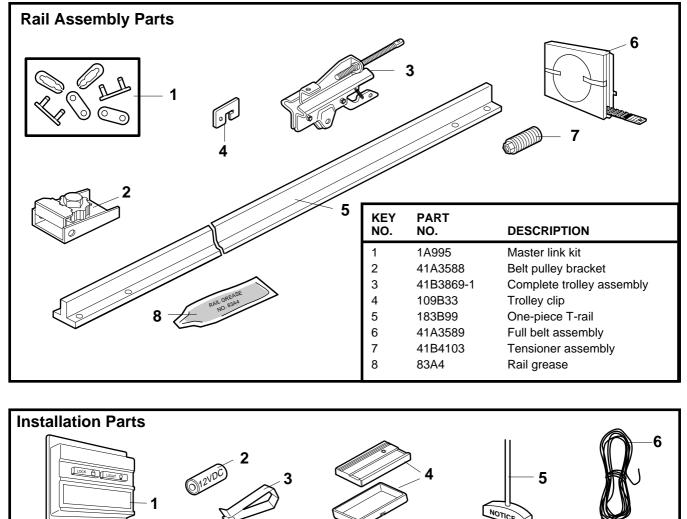
### Having a Problem?

Situation	Probable Cause & Solution
The opener doesn't operate from either the door control or the remote control:	<ol> <li>Does the opener have electric power? Plug a lamp into the outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)</li> <li>Have you disabled all door locks? Review installation instruction warnings on Page 7.</li> <li>Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction.</li> <li>The garage door spring may be broken. Have it replaced.</li> <li>Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again.</li> </ol>
Opener operates from remote control, but not from door control:	<ol> <li>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.</li> <li>Are the wiring connections correct? Review Step 6, page 14.</li> </ol>
The door operates from the door control, but not from the remote control:	<ol> <li>If your model has the Lock feature, turn it <i>off.</i></li> <li>Is the wall push button flashing? Your opener needs to re-learn a remote control code. Refer to instructions on the opener panel.</li> <li>Does the battery test light glow when the remote control push button is pressed? If not, replace the battery.</li> <li>Program the receiver to match the remote control code.</li> <li>Repeat the receiver programming procedure with all remote controls.</li> </ol>
The remote control has short range:	<ol> <li>Check the battery test light. If the light is dim, replace the battery.</li> <li>Change the location of the remote control in your car.</li> <li>Check to be sure the antenna on the side or back panel of the opener extends fully downward.</li> <li>Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage siding.</li> </ol>
<i>Opener noise is disturbing in living quarters of home:</i>	If operational noise is a problem because of proximity of the opener to the living quarters, the Vibration Isolator Kit 41A3263 can be installed. This kit was designed to minimize vibration to the house and is easy to install.
The garage door opens and closes by itself:	<ol> <li>Be sure that all remote control push buttons and battery indicator lights are off.</li> <li>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.</li> </ol>
The door doesn't open completely:	<ol> <li>If the door has been working properly but now doesn't open all the way, increase the <i>up force</i>. See page 25.</li> <li>Is something obstructing the door? Remove the obstruction or repair the door.</li> <li>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.</li> <li><i>Repeat the safety reverse test after the adjustment is complete.</i></li> </ol>
The door stops but doesn't close completely:	Review the travel limits adjustment procedures on page 24. <i>Repeat the safety reverse test after any adjustment of door arm length, close force or down limit.</i>

	Having a Problem? (continued)
Situation	Probable Cause & Solution
<i>The door opens but won't close:</i>	<ol> <li>If the opener lights blink, check the safety reversing sensor. See page 19.</li> <li>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.</li> <li><i>Repeat the safety reverse test after the adjustment is complete.</i></li> </ol>
The door reverses for no apparent reason and opener lights don't blink:	<ol> <li>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.</li> <li>Clear any ice or snow from the garage floor area where the door closes.</li> <li>Review the force adjustment procedures on page 25.</li> <li>If door reverses in the <i>fully closed</i> position, decrease the travel limits (page 24).</li> <li>Repeat the 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.</li> </ol>
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	<i>don't turn on:</i> Replace the light bulbs (75 watts maximum). Use a <i>standard neck</i> garage door opener
	bulb if regular bulb burns out. <i>don't turn off:</i> Is the Light feature <i>on</i> ? Turn it <i>off.</i>
The opener strains or maximum force is needed to operate door:	bulb if regular bulb burns out. <i>don't turn off:</i>
or maximum force is needed to operate	bulb if regular bulb burns out. <i>don't turn off:</i> Is the Light feature <i>on</i> ? Turn it <i>off.</i> The door may be out of balance or the springs are broken. <b>Close the door</b> and use the manual release handle 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 for professional garage door

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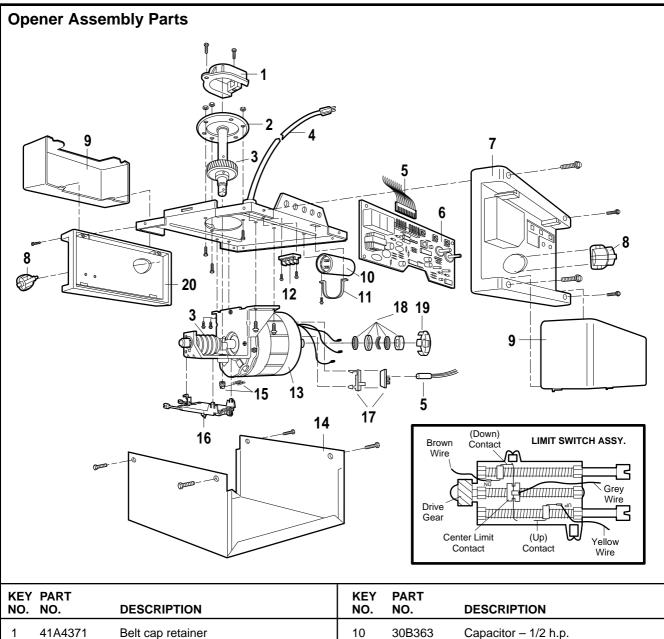
### **Repair Parts**



				UICE	
KEY NO.	PART NO.	DESCRIPTION	7		9
1	41A4202A	Multi-function door control panel		8	0 /00
2	10A14	12V battery			No sto
3	29C128	Transmitter visor clip	$\sim$		20
4	41A3984-7	Remote control case, cover & screw only (no circuit board)	11		0-
5	41A2828	Manual release rope & handle assy.			
6	217A238	2-Conductor bell wire - white & white/red		<u>10</u>	6
7	12B374-1	Door bracket		$\sim$	13 —
8	12B380-1	Door bracket plate		$\wedge$	
9	41A4353-1	Header bracket w/clevis pin & fastener			
10	41A4373	Safety sensor kit (receiving and sending eyes only)	14 —	_	
11	41B4115	2-Conductor bell wire with connector white & white/black (2 rolls)		12 —	
12	178B35	Curved door arm section			
13	178B34	Straight door arm section	$\sim$		ø
14	12B483	C-wrap bracket			ø
15	12B484	Square hole bracket	15	1	6 👘
16	12B485	Slotted bracket			ø
	NOT SHOW	N			ø
	41A4116	Safety sensor hardware		00	
	41A2770-1	Installation hardware bag (includes hardware listed on page 4			
	114A1893	Owner's manual			

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### **Repair Parts**



NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9	41A4371 41A4885 41A2817 41B4245 41C4876 41A4252-6C 41A4888 4A1344 108D34	Belt cap retainer Gear and sprocket assy., <b>Complete with:</b> Spring washer Thrust washer Retaining ring Bearing plate Roll pins (2) Drive gear and worm gear Helical gear w/retainer and grease Drive/worm gear kit w/grease Roll pins (2) Line cord Wire harness assembly with plug Receiver logic board assembly Complete with Logic board End panel w/all labels Light socket Lens	10 11 12 13 14 15 16 17 18 19 20	30B363 12A373 41D3150 41C4842 41A3583-7 41A2818 41D3452 41C4398A 41A2826-1 41A2822A 41A4889 41A2825	Capacitor – 1/2 h.p. Capacitor bracket Terminal block w/screws Universal replacement motor & bracket assembly, <b>Complete with</b> : Motor, worm, bracket, bearing assembly, RPM sensor. Cover Helical gear & retainer w/grease Limit switch assembly RPM sensor assembly Shaft bearing kit Interrupter cup assembly End panel <b>NOT SHOWN</b> Opener assembly hardware kit (includes screws not designated by a number in illustration.

### Accessories Available For Your Opener

Model 1702	Outside Quick Release:	Model 81LM	"Smart" Remote Control:
	Required for a garage with NO access door.		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 1778LM	8 foot Complete Rail: To allow an 8 foot door to open fully.	Model 82LM	2-Channel Remote Control: Includes visor clip.
Model 1770LM	<b>10 foot Complete Rail:</b> To allow a 10 foot door to open fully.	Model 83LM	3-Channel Remote Control:
Model 66LM	Keyless Entry: Enables homeowner to operate garage door opener from outside by entering code on specially designed keyboard.		Includes visor clip.
Model 722LM	Wire-In Light Control: Controls interior or exterior lights. Wires into the electrical box like a dimmer switch.	Model 84LM	<b>4-Channel Remote Control:</b> Includes visor clip.
Model 742LM	<b>Plug-In Light Control:</b> Controls interior lights. Plugs into a wall receptacle.	Model 99LM	Security Remote Control: Operate garage door opener by entering 2-3-4 or 5 digit code from backlit keyboard. Includes visor clip.

### Index

Access Door/Outside Quick Release Accessory	
Electrical Safety Warnings	
Garage Door	
Testing for balance, binding and sticking	
Determining high point of travel:	
Sectional door.	8
One-piece door	9
Disabling existing locks	
Force controls	
Adjustment procedures	
Problems that might require force adjustments	
Safety warnings	
Door hardware	
Maintenance instruction label	
Reinforcement requirements	
Removing of all ropes	
Possible door damage	
Travel limits	
Adjustment procedures	
Problems that might require limit adjustments	
Safety warnings	
Manual Release Rope & Handle	
Lockout feature	
Manual disconnect	
Safety warnings	
Opener Terminals	
Door control connections	14
Safety reversing sensor connections	
Outside Keylock accessory connections	
Operational Noise	
Sprocket noise	
Vibration noise (isolator kit)	
The Protector <sup>®</sup> System	
Receiver & Remote Controls	
Programming the receiver	29
Erasing all codes	
Safety warning	
Problems with remote control transmitter operation	
Safety Reverse Test Procedure	26
Testing required	
Safety reverse system problems	
Securing header bracket to wall	8
Adjusting travel limits	
Applying excessive force on the door	
Buckling or uneven floor	
Safety Warnings2, 3, 6	7, 8, 12,13, 14, 15, 16, 17, 20, 24, 25, 26, 27, 28, 29
User Instruction Label for Garage Wall	

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

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- PART NAME
- MODEL NUMBER

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If, during the limited warranty period, it appears as though this product contains a defect which is covered by this limited warranty, **CALL OUR TOLL FREE SERVICE NUMBER, BEFORE DISMANTLING THIS PRODUCT, AT (1-800-528-2817).** Then send this product, pre-paid and insured, to our service center for warranty repair. You will be advised of shipping instructions when you call the toll free service number. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product that is returned for warranty repair.

Products returned to Seller for warranty repair, which upon receipt by Seller are confirmed to be defective and covered by this limited warranty, will be repaired or replaced (at Seller's sole option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory-rebuilt parts at Seller's sole option.

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