Garage Door Opener
Owner’s Manual

For Residential Use Only

Model 6200, 6200-2, 6200-2K
1/2HP

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

**WARNING**

- 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.

**CAUTION**

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

Start by reviewing these important safety alert symbols:

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Repair parts, opener assembly

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How to order repair parts

Warranty
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.

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.

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

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, wood blocks may need to be fastened to mounting locations before sensors are installed.
- **Step 10, page 22** - Alternate 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.**
- **If your door is more than 7 feet high, see longer rails available on page 38.**

- The opener can be installed within 2 feet of 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 7702CB Outside Quick Release is required. See page 38.

You may find it helpful to refer back to this page as you proceed with the installation of your opener.
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 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 supplied) may be required.
- Safety reversing sensor, page 21 - Depending on garage construction, wood blocks may need to be securely fastened to mounting locations before sensors are installed.
- Step 10, page 22 - Alternate 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 7702CB Outside Quick 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.
Your garage door opener is packaged in one carton which contains all parts illustrated below. If anything is missing, carefully check the packing material. Parts may be “stuck” in the foam. Hardware for assembly and installation is shown on page 7.
Hardware

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

Assembly Hardware

- Washered Screw 5/16" - 18 x 1-1/2" (2)
- Hex Screw 5/16" - 18 x 7/8" (3)
- Nut 5/16" - 18 (5)
- Carriage Bolts 1/4" - 20 x 1/2" (12)
- Master Link (2)
- Lock Washer 5/16" (4)
- Lock Nut 1/4" - 20 x 7/16" (12)
- Threaded Trolley Shaft (1)
- Clevis Pin 5/16" x 2-3/4" (1)
- Rope
- Insulated Staples (10)
- Dry Wall Anchors (2)
- Clevis Pin 5/16" x 2-1/2" (2)
- Carriage Bolt 5/16"-18 x 2-1/2" (2)
- Safety Reversing Sensor Installation Hardware

- Lag Screw 5/16" - 9 x 1-5/8" (4)
- Hex Screw 5/16"-18 x 7/8" (4)
- Screw 6AB x 1" (2)
- Clevis Pin 5/16" x 2-3/4" (1)
- Clevis Pin 5/16" x 1-1/4" (1)
- Clevis Pin 5/16" x 1" (1)
- Carriage Bolt 5/16"-18 x 1-1/4" (1)
- Carriage Bolts 1/4" - 20 x 1/2" (4)
- Hex Screw 1/4"-20 x 1-1/2" (2)
- Screw #10 - 32 x 3/8" (4)
- Screw #10 x 32 (4)
- Insulated Staples (20)
- Lag Screw 5/16"-9 x 1-1/2" (4)
- Insulated Staples (20)
- Curved Pin 5/16"- 1-1/4" (1)
- Wing Nut (2)
- Master Link (2)
- Lock Nut 1/4" - 20 (4)
- Lock Nut 1/4" - 20 (4)
- Insulated Staples (20)
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 T-rail & Attach the Cable Pulley Bracket

- Align the 4 T-rail sections on a flat surface exactly as shown. Center sections are interchangeable. Front and back sections are also interchangeable for ease of assembly.
- Insert the carriage bolts so the square bolt necks seat in the square holes in the T-rail sections and pass through the round holes in the rail braces. Assemble lock nuts, ensure alignment and tighten.
- Position the cable pulley bracket on the front end of the T-rail as shown. Fasten securely with the hardware shown.

If T-rail is not assembled exactly as shown, trolley will not travel smoothly along length of rail or it will hit against the nuts.

- When tightening the screws, be sure to keep bracket parallel to the rail. Otherwise, the rail may bow when the opener is operated.
Assembly Step 2

Install the Trolley on the T-rail

- Attach the threaded shaft to the trolley with the lock washer and nuts as shown.
- As a temporary stop, insert a screwdriver into the hole in the front end of the T-rail.
- Slide the trolley assembly along the rail to the screwdriver stop.
- If trolley hits against any nuts on the T-rail, the bolts and nuts were attached from the wrong side and must be repositioned. Review Step 1.

Assembly Step 3

Fasten the T-rail to the Opener

- Place the opener on packing material to protect the cover. For convenience, put a support under the cable pulley bracket.
- Remove the (2) 5/16"-18x1/2" washered screws mounted in the top of the opener.
- Align the holes in the back section of the T-rail with the holes in the opener.
- Fasten the rail with the (2) washered screws previously removed. Tighten securely.
  **CAUTION**: Use only those screws mounted in the top of the opener. Any other screws will cause serious damage to the opener.
- Insert a 5/16"-18x7/8" hex screw into the cover protection bolt hole in the T-rail as shown. Tighten securely with a 5/16" lock washer and nut.
  **NOTE**: This screw prevents trolley over-travel. Keep a 2" minimum between the trolley and this screw when adjusting travel limits (see page 28).
Assembly Step 4
Install the Chain/Cable & Attach the Sprocket Cover

To attach the sprocket cover:
- Insert the back tab in the opener slot. Squeeze the cover slightly and insert the front tab in the slot on the mounting plate.

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

• Detach the cable loop from the carton and fasten it to the trolley with a master link from the hardware bag. See master link procedure, Figure 1.
• With the trolley against the screwdriver, dispense the cable around the pulley.
• Proceed back around the opener sprocket, Figure 2. Be sure sprocket teeth engage the chain. Continue forward to the trolley threaded shaft, Figure 3.
• Use the second master link to connect the chain to the flat end of the shaft. Check to make sure the chain is not twisted.
• Remove the screwdriver.

Install Chain and Cable In This Direction

Master Link Procedure:
Push pins of master link bar through cable loop and hole in front end of trolley. Push cap over pins and past notches. Slide clip-on spring over cap and into notches until both pins are securely locked.

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 & Cable

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

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

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

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

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

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING

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

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

• 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.

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

Remember, you can fasten the header bracket within 2 feet to the left or right of the door center only if a torsion spring or center bearing plate is in the way; or you can attach it to the ceiling (refer to page 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 supplied) to securely fasten the 2x4 to structural supports as shown here and on page 13.

Proceed to Step 2, page 14.

WARNING
If the header bracket is not rigidly fastened to a structural support on the header wall or ceiling, the safety reverse system may not work properly (see page 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.

CAUTION

Do not attempt to loosen, move or adjust them yourself. Serious personal injury or death could result. Call for professional garage door service.
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 supplied) to securely fasten the 2x4 to structural supports as shown.

EXAMPLE

Distance from top of door (at highest point of travel) to floor: 92" Actual height of door: 88" Remainder: 4" Add: 4" Bracket height on header wall: 12" (Measure UP from top of CLOSED door.)

Proceed to Step 2, page 14.
Installation Step 2

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.

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.

Header Bracket

Wall Mounting Holes

Optional Wall Mounting Holes

Ceiling Mounting Holes

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

Hardware Shown Actual Size

Lag Screw 5/16" x 9 x 1-5/8"
Installation Step 3  
Attach the T-rail to the Header Bracket

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

  If the door spring is in the way you’ll need help. Have someone hold the opener securely on a temporary support to allow the T-rail to clear the spring.

- Position the cable pulley bracket against the header bracket.
- Align the bracket holes and join with a clevis pin as shown.
- Insert a ring fastener to secure.
**Installation Step 4**

*Position the Opener*

Follow instructions which apply to your door type as illustrated.

**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 inner and outer sections. The trolley can remain disconnected until Step 12 is completed.

**ONE-PIECE Door without Track**

- With the door fully open and parallel to the floor, measure the distance from the floor to the top of the door.
- Using a stepladder as a support, raise the opener to the same distance as the door from the floor (it will be at a slight angle as shown).
- The top of the door should be level with the top of the opener. Do not position the opener more than 2" above this point.
Installation Step 5

Hang the Opener

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

- Measure the distance from each side of the opener to the structural support.
- Cut both pieces of the hanging bracket to required lengths.
- Drill 3/16” pilot holes in the structural supports.
- Attach one end of each bracket to a support with 5/16”-9x1-5/8” lag screws.
- Fasten the opener to the hanging brackets with 5/16”-18x7/8” hex screws, lock washers and nuts.
- Check to make sure the T-rail is centered over the door (or in line with the header bracket if the bracket is not centered above the door).
- Remove the 2x4. Operate the door manually. If the door hits the rail, raise the header bracket.

**Hardware Shown Actual Size**

- Lag Screw
  - 5/16”-9x1-5/8” (4)
- Hex Screw
  - 5/16”-18 x 7/8”
- Nut
  - 5/16”-18
- Lockwasher
  - 5/16”

**WARNING**

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

**Figure 1**

**Figure 2**

Grease the top and underside of the rail surface where the trolley slides with rail grease.
Installation Step 6
Install the Multi-Function Door Control Panel

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

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

• 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 as follows: white wire to 2 and white/red wire to 1. *(NOTE: After installation, a green indicator light behind the white translucent cover will indicate proper connection. If not lit, the Lock and Light features will not function (reverse wires to correct).)*

• Before mounting, remove the white cover by gently pushing both thumbs against the upper corners of the cover on the back side of the door control (see illustration).

• For standard wall mount, mark the wall about 1-1/4” up the centerline from the bottom of the door control. Install a 6ABx1-1/4” self-tapping screw at this point, allowing about 1/8” to protrude from the wall. Slip the lower part of the door control over the screw head and adjust for snug fit. Drill and install the top screw with care to avoid cracking the plastic housing. *Do not overtighten.* 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.

• For pre-wired installations, partially install a 6-32x1" machine screw into the bottom of the gang box, allowing about 1/8” to protrude. Slip the lower part of the door control over the screw head and adjust for snug fit. Install top screw with care to avoid cracking plastic housing. *Do not overtighten.*

• Connect the bell wire to the opener terminal screws as follows: white to 2 and white/red to 1.

• Replace the cover by inserting bottom tabs and snapping into place. To remove the cover after mounting, gently pry at the top with a paper clip or small flat head screwdriver.

**WARNING**

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

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

**Outside Keylock Accessory Connections**

To opener terminal screws: white to 2; white/red to 1
Installation Step 7
*Install the Light and the Lenses*

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

Install the lenses
The Force Adjustment Control and Smart Button are located on the back panel.
For convenience, you may wish to install the lens after installation and adjustment procedures are completed:
- Slide each lens into guides. Snap bottom tabs into lens slots.
- Reverse the procedure to remove the lenses.

Installation Step 8
*Attach the Manual Release Rope and Handle*

WARNING
Do not use the red handle to pull the door open or closed. The rope knot could become untied and you could fall. Use the manual release only to disengage the trolley and, if possible, only when the door is closed.
Garage doors are heavy. If the door is open when the handle is pulled, the door could close inadvertently if it is not properly balanced. Serious injury may result to persons under the door. Make sure the doorway is clear of persons and obstructions before pulling handle when 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.
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.

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.

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

Facing the door from inside the garage

Figure 1

Be sure power to the opener is disconnected.
The sending eye transmits an invisible light beam to the receiving eye. The units can be installed on either side of the garage door as long as the sun never shines directly into the receiving eye lens.
Look at the label on the connector end of each case to identify the sensors.
The brackets must be connected and fastened so that the sending and receiving eyes face each other as shown in Figure 1.
If an obstruction breaks the light beam while the garage door is closing, the door will stop and reverse to full open position, and the opener lights will flash for 5 seconds.

The brackets must be securely fastened to a solid surface such as the studs on either side of the door, or add a piece of wood at each location if installing in masonry construction.
The invisible light beam path must be unobstructed.
No part of the garage door (or door tracks, springs, hinges, rollers or other hardware) can interrupt the beam while the door is closing. If it does, use a piece of wood to build out each sensor mounting location to the minimum depth required for light beam clearance.
Installation Step 10
Install the Safety Reversing Sensor

Figures 2 and 3 show assembly of brackets and "C" wrap based on the recommended installation of the sensors on each side of the garage door as shown on page 21. However, Figures 4 and 5 are variations which may fit your installation requirements better. Make sure the wraps and brackets are aligned so the sensors will face each other across the garage door.

- Fasten the "C" wraps to the mounting brackets having square holes, using the hardware shown in Figure 2.
- Connect each assembly to a slotted bracket, using the hardware shown in Figure 3.

Note the alignment of the 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 21.)
- Attach bracket assemblies with 1/4"x1-1/2" lag screws as shown in Figure 3.
- Adjust right and left side bracket assemblies to the same distance out from the mounting surface. Make sure all door hardware obstructions are cleared. Tighten the nuts securely.

Hardware Shown Actual Size

Figure 4

Alternate Wall Mount

Figure 5

Alternate Floor Mount
• Center each sensor unit in a "C" wrap with lenses pointing toward each other across the door (see Figure 6).

• Secure sensors with the hardware shown in Figure 7. 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 beam path is not obstructed), alignment is required.

• Loosen the sending eye wing nut and re-adjust, aiming directly at the receiving eye. Lock in place.

• Loosen the receiving eye wing nut and adjust sensor vertically and/or horizontally until it receives the sender’s beam. When the green indicator light glows steadily, tighten the wing nut.

Troubleshooting

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 21.
Installation Step 11  
Fasten Door Bracket

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

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 door bracket on the previously marked vertical guideline used for the header bracket installation. Note the correct UP placement, as stamped inside the bracket.

• 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.

CAUTION

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

SECTIONAL Door Installation Procedure

Figure 1

Hardware Shown Actual Size

Carriage Bolt 5/16"-18 x 2-1/2"  
Lockwasher 5/16"  
Nut 5/16"-18
• Center the bracket on the top of the door, in line with the header bracket as shown. Mark holes.
• Drill 5/16” pilot holes and fasten the door bracket with hardware supplied.
• If the door has no exposed framing, drill 3/16” pilot holes and fasten the bracket with 5/16”x1-1/2” lag screws (not supplied) to the top of the door.
The door bracket may be installed on the top edge of the door if required for your installation. (Refer to the dotted line optional placement drawing.) Drill 3/16” pilot holes and substitute 5/16”x1-1/2” lag screws (not supplied) to fasten the bracket to the door.

Hardware Shown Actual Size

- Carriage Bolt 5/16”-18 x 2-1/2”
- Nut 5/16” - 18
- Lockwasher 5/16”

Please read and comply with the warnings and reinforcement instructions on page 24. They apply to one-piece doors also.
Installation Step 12  
Connect Door Arm to Trolley  
Follow instructions which apply to your door type as illustrated below and on page 27.

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

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

**Figure 2:**  
- Bring arm sections together. Find two pairs of holes that line up and join sections. Select holes as far apart as possible to increase door arm rigidity.

**Figure 3:**  
- 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.

### Hole Alignment Alternative

**Figure 3**

Hardware Shown Actual Size

Proceed to Adjustment Step 1, page 28. Trolley will re-engage automatically when the opener is operated.
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. 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 30).

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

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

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

How and When to Adjust the Limits

- If the door does not open completely, but opens at least five feet:
  Increase up travel. Turn the UP limit adjustment screw clockwise. One turn equals 2” of travel.
  **NOTE:** To prevent the trolley from hitting the cover protection bolt, keep a minimum distance of 2-4” between the trolley and the bolt.
- If the 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 pulley bracket (see page 4 or 5), try lengthening the door arm (see page 25).
  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 12 and 13.
- If the opener reverses in fully closed position:
  Decrease down travel. Turn the DOWN limit adjustment screw clockwise. One turn equals 2” of travel.
  **WARNING**: 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.
- 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 manual release handle. Manually open and close the door. If the door is binding, call for garage door service. If the door is not binding or unbalanced, adjust the DOWN (close) force. See Adjustment Step 2.
**Adjustment Step 2**  
**Adjust the Force**

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

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

If the forces are set too light, door travel may be interrupted by nuisance reversals in the down direction and stops in the up direction. Weather conditions can affect the door movement, so occasional adjustment may be needed.

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

---

**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 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 one-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 the 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. 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 if the indicator light in either sensor is off (alerting you to the fact that the sensor is misaligned or obstructed).

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

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 26.
• 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.

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.

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.
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 30. 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 3. An improperly balanced door may not reverse when required and could result in severe injury or death. Repairs to cables, spring assemblies and other hardware must be made by a professional garage door person.
7. Disconnect the electric power 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**
- Increase travel
- Decrease travel

**Force Controls**
- Increase force
- Decrease force

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 transmitter

The opener must learn the code of any new remote control. Page 33 explains how to program your receiver and how to erase all codes if required. Self service of your receiver and remote control is not recommended. If service is needed, call the toll-free number listed on the back page.

The transmitter battery

The yellow 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 test light is dim or off, replace the battery. Also check the test light if transmission range decreases. The 12V battery should produce power for at least a year.

Dispose of your old battery properly.

Maintenance Schedule

**Once a Month**
- Manually operate door. If it is unbalanced or binding, call for professional garage door service.
- Check to be sure door opens & closes fully.
- Adjust limits and/or force if necessary. (See pages 28 & 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 the large 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, it will open.
2. If closing, the door will reverse.
3. If opening, the door will stop (allowing space for entry and exit of pets and for fresh air).
4. If the door has been stopped in a partially open position, it will close.
5. If obstructed while closing, the door will reverse.
6. If obstructed while opening, the door will stop.
7. The garage door will reverse in the closing cycle, and the opener 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 is not aligned correctly, the door won't close from any remote 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 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 on the Multi-Function Door Control is activated. Bulb size is 75 watts maximum.

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

**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 door is fully closed.

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

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

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

(See additional programming features, next page.)

**Door Control Push Bar:** Press the white square 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 lights on and then activate the opener, the lights will turn off after 4-1/2 minutes.

The 4-1/2 minutes interval can be changed to 1-1/2, 2-1/2, or 3-1/2 minutes as follows: Press and hold the Lock button until the light blinks (about 10 seconds). A single blink indicates that the timer is reset to 1-1/2 minutes. Repeat the procedure and the light will blink twice, resetting the timer to 2-1/2 minutes. Repeat again for a 3-1/2 minute interval, etc., up to a maximum of four blinks and 4-1/2 minutes.

**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 again for 2 seconds. The push bar light will stop flashing. Normal operation will resume. The Lock feature will also turn off whenever the “Smart” button on the opener panel is activated.

The Light button will not control the opener lights when the door is in motion.
Receiver and Remote Control Programming

SECURITY™

Your garage door opener receiver and remote control transmitter have been set at the factory to a matching code. 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.

Your SECURITY™ opener will operate with:
- several SECURITY™ remote controls utilizing up to 8 functions.
- one Keyless Entry System (with SECURITY™ logo)

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 Multi-Function door control:
1. With the door closed, press and hold a remote control push button. See Figure 1.
2. Press and hold the Light button on the door control.
3. Press and hold the door control push bar.
4. After the opener lights flash, release all buttons.
Test by pressing the remote push button.

If you do not have a Multi-Function door control:
1. Press and hold the selected remote control push button. See Figure 1.
2. Then press and release the Smart (learn) button on the back panel of the opener, Figure 2. The indicator light on the panel will begin to blink and the opener lights 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 Smart button on the opener panel until the indicator light turns off (about 6 seconds). All transmitter codes are now erased. Then follow the steps above to re-program each remote control.

To Control the Opener Lights
With SECURITY™ transmitters, a remote push button can be programmed to operate the opener lights without opening the door.
1. With the door closed, press and hold the remote button that you want to control the light.
2. Press and hold the Light button on the door control.
3. Press and hold the Lock button on the door control.
4. After the opener lights flash, release all buttons.
Test by pressing the remote push button. The opener lights should turn on or off but the door should not move.

Model 940CB SECURITY™ Keyless Entry
Follow instructions on page 38 (Accessories).
### Having a Problem?

<table>
<thead>
<tr>
<th>Situation</th>
<th>Probable Cause &amp; Solution</th>
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| 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.)
3. Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction.
4. The garage door spring may be broken. Have it replaced.
5. Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again. |
| Opener operates from the remote control but not from the door control:       | 1. Is the door control push bar lit? If not, Remove the bell wire from the opener terminal screws. Short the red and white terminals by touching both terminals at the same time with a piece of wire. If the opener runs, check for a faulty wire connection at the door control, a short under the staples, or a broken wire.
| The door operates from the door control, but not from the remote control:       | 1. If the Lock button is on, turn it off.
2. Is the door push button flashing? Your opener needs to re-learn a remote control code. Refer to instructions on the opener panel.
3. Does the battery test light glow when the remote control push button is pressed? If not, replace the battery.
4. Program the receiver to match the remote control code.
5. Repeat the receiver programming procedure with all remote controls.                                                                                      |
| The remote control has short range:                                          | 1. Check the battery test light. If the light is dim, change the battery.
2. Change the location of the remote control in your car.
3. Check to be sure the antenna on the side or back panel of opener extends fully downward.
4. Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage siding. |
| Opener noise is disturbing in living quarters of home:                       | If operational noise is a problem because of proximity of the opener to the living quarters, the Vibration Isolator Kit 41A3263 can be installed. This kit was designed to minimize vibration to the house and is easy to install. |
| The garage door opens and closes by itself:                                  | 1. Be sure that all remote control push buttons and battery indicator lights are off.
2. Remove the bell wire from the door control terminals and operate from the remote control only. If this solves the problem, the door control is faulty (replace), or there is an intermittent short on the wire between the door control and the opener. |
| The door doesn’t open completely:                                            | 1. If the door has been working properly but now doesn’t open all the way, increase the up force. See page 29.
2. Is something obstructing the door? Remove the obstruction or repair the door.
3. If door opens at least 5 feet, the travel limits may need to be increased. One turn equals 2 inches of travel. See page 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)

<table>
<thead>
<tr>
<th>Situation</th>
<th>Probable Cause &amp; Solution</th>
</tr>
</thead>
</table>
| **The door opens but won't close:** | 1. If the opener lights blink, check the safety reversing sensor. See page 23.  
2. 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 light(s) don’t blink:** | 1. Is something obstructing the door? Pull the manual release handle. Operate the door manually. If it is unbalanced or binding, call for professional garage door service.  
2. Clear any ice or snow from the garage floor area where the door closes.  
3. Review the force adjustment procedures on page 29. **Repeat the safety reverse test after the adjustment is complete.**  
4. If door reverses in the fully closed position, decrease the travel limits (page 28). **Repeat safety reverse test after the adjustment is complete. The need for occasional adjustment of the force and limit settings is normal. Weather conditions in particular can affect door travel.** |
| **The door reverses for no apparent reason and opener light(s) blink for 5 seconds after reversing:** | Check the safety reversing sensor. Remove any obstruction or align the receiving eye. See page 23. |
| **The opener lights don’t turn on:** | . . . don’t turn on:  
1. Replace the light bulbs (75 watts maximum). Use a standard neck garage door opener bulb if regular bulb burns out.  
. . . don’t turn off:  
Is the Light Feature on? Turn it off. |
| **The opener strains or maximum force is needed to operate door:** | The door may be out of balance or the springs are broken. **Close the door** and use the manual release 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 service. **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 re-installed, the motor may be out of phase. Remove the chain; cycle the motor to the down position. Observe the drive sprocket. When it turns in a clockwise direction and stops in the down position, reinstall the chain. **Repeat the safety reverse test after the adjustment is complete.** |
| **The opener won’t operate due to power failure:** | 1. Use the manual release rope and handle to disconnect the trolley. The door can be opened and closed manually. When power is restored, press the Door Control push bar and trolley will automatically reconnect (unless trolley is in lockout position.) See page 32.  
2. The Outside Quick Release accessory (for use on garages with no service door) disconnects the trolley from outside the garage in case of power failure. |
| **The chain droops or sags:** | It is normal for the chain to droop slightly in the closed door position. Use the manual release rope and handle to disconnect the trolley. If the chain returns to the normal height when the trolley is disengaged and the door reverses on a one-inch board (or a 2x4 laid flat), no adjustments are needed. (See page 11.) |
## Repair Parts

### Rail Assembly Parts

![Diagram of Rail Assembly Parts]

**KEY PART NO.** | **PART NO.** | **DESCRIPTION**  
--- | --- | ---  
1 | 1A995 | Master link kit  
2 | 41A3489 | Complete trolley assembly  
3 | 183B112 | Rail braces (each)  
4 | 183B111 | T-rail – center sections (each)  
5 | 183B113 | T-rail – end sections (each)  
6 | 41A3473 | Chain and cable in dispensing carton  
7 | 41B2616 | Cable pulley bracket assembly  
8 | 83A4 | Rail Grease  
9 | 41A2848 | Rail assembly hardware kit (includes hardware illustrated on page 7).

### Installation Parts

![Diagram of Installation Parts]

**KEY PART NO.** | **PART NO.** | **DESCRIPTION**  
--- | --- | ---  
1 | 41A5273-2 | Multi-function door control panel  
2 | 41A5056-9 | Remote control housing only  
3 | 10A20 | 3V2032 Lithium battery  
4 | 29B137 | Transmitter visor clip  
5 | 41A2828 | Manual release rope & handle assy.  
6 | 217A238 | 2-conductor bell wire - white & white/red  
7 | 41A4353 | Header bracket w/clevis pin & fastener  
8 | 41A5047 | Door bracket w/clevis pin & fastener  
9 | 178B35 | Curved door arm section  
10 | 178B34 | Straight door arm section  
11 | 12B350 | Hanging brackets  
12 | 12B483 | C-wrap bracket  
13 | 12B424 | Square hole mounting bracket  
14 | 12B485 | Slotted hole mounting bracket  
15 | 41A4373A | Safety sensor kit (receiving and sending eyes) with 3’ 2-conductor bell wire attached

**NOT SHOWN**

- 41A3475-5 | Installation hardware bag (includes hardware illustrated on page 7).  
- 41A4116 | Safety sensor hardware  
- 114A2103 | Owner’s manual
Opener Assembly Parts

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>KEY NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>31D380</td>
<td>Sprocket cover</td>
<td>11</td>
<td>41D3058</td>
<td>Universal replacement motor &amp; bracket assembly Complete with:</td>
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<tr>
<td>2</td>
<td>41C4220A</td>
<td>Gear and sprocket assembly</td>
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<td></td>
<td>motor, worm, bracket, bearing assembly, RPM sensor</td>
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<td><strong>Complete with:</strong></td>
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<tr>
<td></td>
<td></td>
<td>Spring washer</td>
<td>12</td>
<td>41A3666-5</td>
<td>Cover</td>
</tr>
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<td></td>
<td></td>
<td>Thrust washer</td>
<td>13</td>
<td>41A2818</td>
<td>Helical gear &amp; retainer w/grease</td>
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<tr>
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<td>Limit switch assembly</td>
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<tr>
<td></td>
<td></td>
<td>Bearing plate</td>
<td>15</td>
<td>41C4398A</td>
<td>RPM sensor assembly</td>
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<tr>
<td></td>
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<td>Roll pins (2)</td>
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<td>41C4246</td>
<td>Wire harness assembly w/plug</td>
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<td>3</td>
<td>41A2817</td>
<td>Drive/worm gear kit w/grease</td>
<td>17</td>
<td>41A2826</td>
<td>Shaft bearing kit</td>
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<td>41B4245</td>
<td>Line cord</td>
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<td>41A2822A</td>
<td>Interrupter cup assy.</td>
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<tr>
<td>5</td>
<td>143D152</td>
<td>End panel</td>
<td>19</td>
<td>41A5021-C</td>
<td>Receiver logic board assy.</td>
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<tr>
<td>6</td>
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<td>Light socket</td>
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<td>7</td>
<td>108D34</td>
<td>Lens</td>
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<td>8</td>
<td>30B363</td>
<td>Capacitor</td>
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<td>9</td>
<td>12A373</td>
<td>Capacitor bracket</td>
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<tr>
<td>10</td>
<td>41A3150</td>
<td>Terminal block w/screws</td>
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<td>41A3673-1</td>
<td>End panel w/all labels</td>
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</table>

*NOT SHOWN* 41A2825 Opener assembly hardware kit (includes screws not designated by a number in illustration).
## Accessories Available for your Opener

<table>
<thead>
<tr>
<th>Accessories Available for your Opener</th>
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</thead>
<tbody>
<tr>
<td>7702CB Outside Quick Release: Required for a garage with NO access door.</td>
<td>953CB SECURITY+ Multi-Function Remote Control: Includes visor clip.</td>
</tr>
<tr>
<td>7704CB 8 foot Rail Extension Kit: To allow an 8 foot door to open fully.</td>
<td>956CB SECURITY+ Multi-Function Mini Remote Control: With key ring and Velcro fastening strip.</td>
</tr>
<tr>
<td>8710CB 10 foot Rail Extension Kit: To allow a 10 foot door to open fully.</td>
<td>945CB Multi-Function Door Control Panel: Provides a Lock Feature which prevents operation of garage door opener from portable remotes and a Light Feature for constant light.</td>
</tr>
<tr>
<td>940CB SECURITY+ Keyless Entry: Enables homeowner to operate garage door opener from outside by entering a password on a specially designed keyboard. Also can add a temporary password for visitors or service persons. This temporary password can be limited to a programmable number of hours or entries.</td>
<td>935CB Motion Detecting Control Panel: Multi-function door control with motion sensor that automatically turns opener lights on for 5 minutes when it detects a person entering the garage. Sensor can be easily deactivated when desired.</td>
</tr>
</tbody>
</table>

### 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 Multi-Function door control:**
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 lights flash, release all buttons.

**If you do not have a Multi-Function door control:**
1. 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 “Smart” (learn) button on the opener panel. After the opener lights flash, release the Enter button.
4. After the opener lights flash, release all buttons.

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

### Setting a Temporary Password

In addition to your personal entry password which works at all times, a 4-digit temporary password can be added for the convenience of visitors or service persons. This allows authorized persons a way to gain temporary access. After a programmed number of hours or number of accesses, this temporary password expires and will no longer open the door. The temporary password can be used to close the door even after it has expired. To set a temporary password:

1. Press the four buttons for your personal entry password (not the last temporary password), then press and hold the # button. The opener light will blink three times. Release the button.
2. Press the temporary 4-digit password you have chosen, then press Enter. The opener light will blink four times.
3. To set the number of hours this temporary password will work, press the number of hours (up to 255), then press #.

**OR**

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

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

**Test** by pressing the four buttons for the temporary password, then press Enter. The door should move. If the temporary password was set to a certain number of openings, remember that the test has used up one opening.

To clear the temporary password, repeat steps 1-3, setting the number of hours or times to 0 in step 3.
CHAMBERLAIN SERVICE IS ON CALL

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

1-800-528-9131

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

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

HOW TO ORDER REPAIR PARTS

Selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:
• PART NUMBER
• PART NAME
• MODEL NUMBER

ADDRESS ORDERS TO:
THE CHAMBERLAIN GROUP, INC.
Parts and Service Department
2301 N. Forbes Boulevard, Suite 104
Tucson, Arizona 85745

SERVICE INFORMATION
TOLL FREE NUMBER:
1-800-528-9131

CHAMBERLAIN GARAGE DOOR OPENER ONE-YEAR LIMITED WARRANTY

The Chamberlain Group, Inc. (“Seller”) warrants to the first retail purchaser of this product that it is free from defect in materials and/or workmanship for a period of one year from the date of purchase. The proper operation of this product is dependent on your compliance with the Owner’s Manual instructions regarding installation, operation, maintenance and testing. Failure to comply strictly with those instructions will void this warranty in its entirety. Please note that the safety reverse system, in order to operate properly with your garage door, must be adjusted and periodically tested in accordance with the Owner’s Manual.

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 1-800-528-9131. 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.

THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, AND OF ANY OTHER OBLIGATIONS OR LIABILITY ON SELLER’S PART. THIS LIMITED WARRANTY DOES NOT COVER NON-DEFECT DAMAGE, DAMAGE CAUSED BY IMPROPER INSTALLATION, OPERATION OR CARE (INCLUDING, BUT NOT LIMITED TO ABUSE, MISUSE, FAILURE TO PROVIDE REASONABLE AND NECESSARY MAINTENANCE, OR ANY ALTERATIONS TO THIS PRODUCT), LABOR CHARGES FOR DISMANTLING OR REINSTALLING A REPAIRED OR REPLACED UNIT, OR REPLACEMENT BATTERIES.

UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES ARISING IN CONNECTION WITH THE USE, OR INABILITY TO USE, THIS PRODUCT. IN NO EVENT SHALL SELLER’S LIABILITY FOR BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE OR STRICT LIABILITY EXCEED THE COST OF THE PRODUCT COVERED HEREBY. NO PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS PRODUCT.

Some states do not allow the exclusion or limitation of consequential, incidental or special damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

LIMITED WARRANTY ON MOTOR - MODEL 6200, 6200-2, & 6200-2K

The motor is fully warranted for the lifetime of the product to the first-time purchaser.