

Introduction

Planning

Survey your area to see if any of the conditions below apply to your installation. Depending on your requirements, additional materials may be required.

THIS DOOR OPERATOR IS COMPATIBLE WITH:

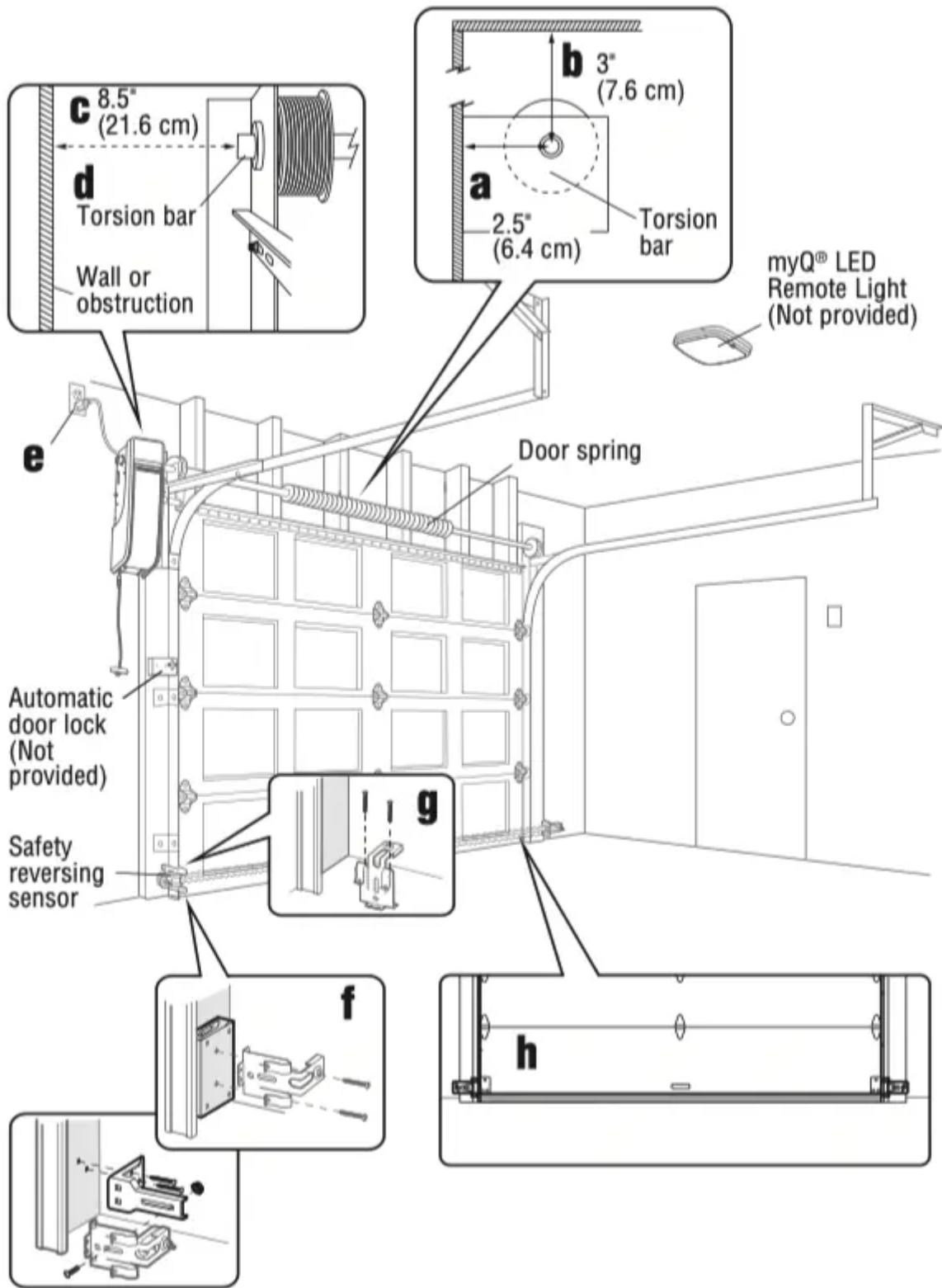
- Doors that use a torsion bar and springs. The torsion bar must be 1" (2.5 cm) diameter. NOT compatible with reverse wound drums.
- 4-6" (10-15 cm) drums, not to be used on tapered drums over 6" (15 cm).
- High lift (up to 54" (137.2 cm) high) and standard lift sectional doors up to 14 ft. (4.3 m) high.
- Doors up to 18 ft. (5.5 m) wide.
- Doors up to 180 sq. ft. (16.7 sq. m).

NOTE: Inspect the torsion bar while the door is raised and lowered. It is important that there is no noticeable movement up and down or left and right. If the movement is not corrected, the life of the door operator will be greatly reduced.

Review or inspect proposed installation area. The door operator can be installed on the left or right side of door. Select the side that meets the requirements listed below.

- a. Must have minimum of 2.5" (6.4 cm) between the wall and the center of the torsion bar.
- b. Must have minimum of 3" (7.6 cm) between the ceiling and the center of torsion bar.
- c. Must have minimum of 8.5" (21.6 cm) between the side wall (or obstruction) and the end of torsion bar.
- d. The torsion bar must extend at least 1.5" (3.81 cm) past the bearing. This may vary depending on your installation requirements.
- e. An electric outlet is required within 6 ft. (1.83 m) of the installation area. If outlet does not exist, contact a qualified electrician.
- f. Depending upon building construction, extension brackets or wood blocks may be needed to install safety reversing sensors and cable tension monitor.
- g. Alternate floor mounting of the safety reversing sensors will require hardware (not provided).

h. Check the seal on the bottom of the door. Any gap between the floor and the bottom of the door must not exceed 1/4 inch (6 mm). Otherwise, the safety reversal system may not work properly.



Preparing Your Door

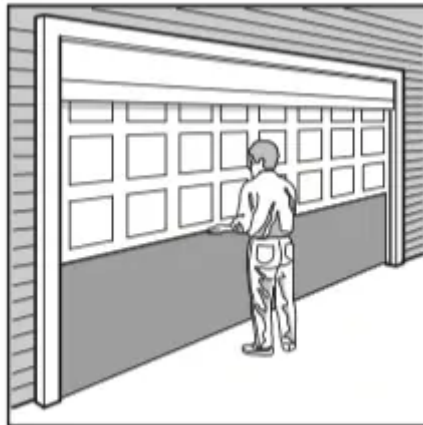
BEFORE YOU BEGIN:

- Disable locks.
- Remove any ropes connected to the door.

Complete the following test to make sure the door is balanced and is not sticking or binding:

1. Lift the door halfway up. Release the door. If balanced, it should stay in place, supported entirely by its springs.
2. Raise and lower the door to check for binding or sticking.
3. Doors heavier than 650 lbs. should NOT open or fall rapidly.

If your door binds, sticks, or is out of balance, call a trained door systems technician.



Sectional Door

WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

- **ALWAYS** call a trained door systems technician if door binds, sticks, or is out of balance. An unbalanced door may **NOT** reverse when required.
- **NEVER** try to loosen, move or adjust door, door springs, cables, pulleys, brackets or their hardware, **ALL** of which are under **EXTREME** tension.
- Disable **ALL** locks and remove **ALL** ropes connected to door **BEFORE** installing and operating door operator to avoid entanglement.

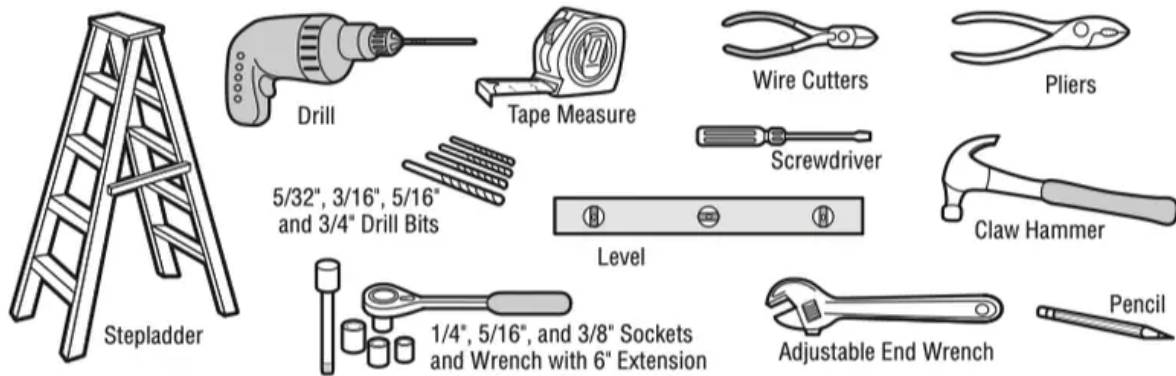
CAUTION

To prevent damage to door and operator:

- **ALWAYS** disable locks **BEFORE** installing and operating the operator.
- **ONLY** operate door operator at 120V, 60 Hz to avoid malfunction and damage.
- **DO NOT** exceed 10 complete cycles of door operation per hour.

Tools Needed

During assembly, installation and adjustment of the door operator, instructions will call for hand tools as illustrated below.



Assembly

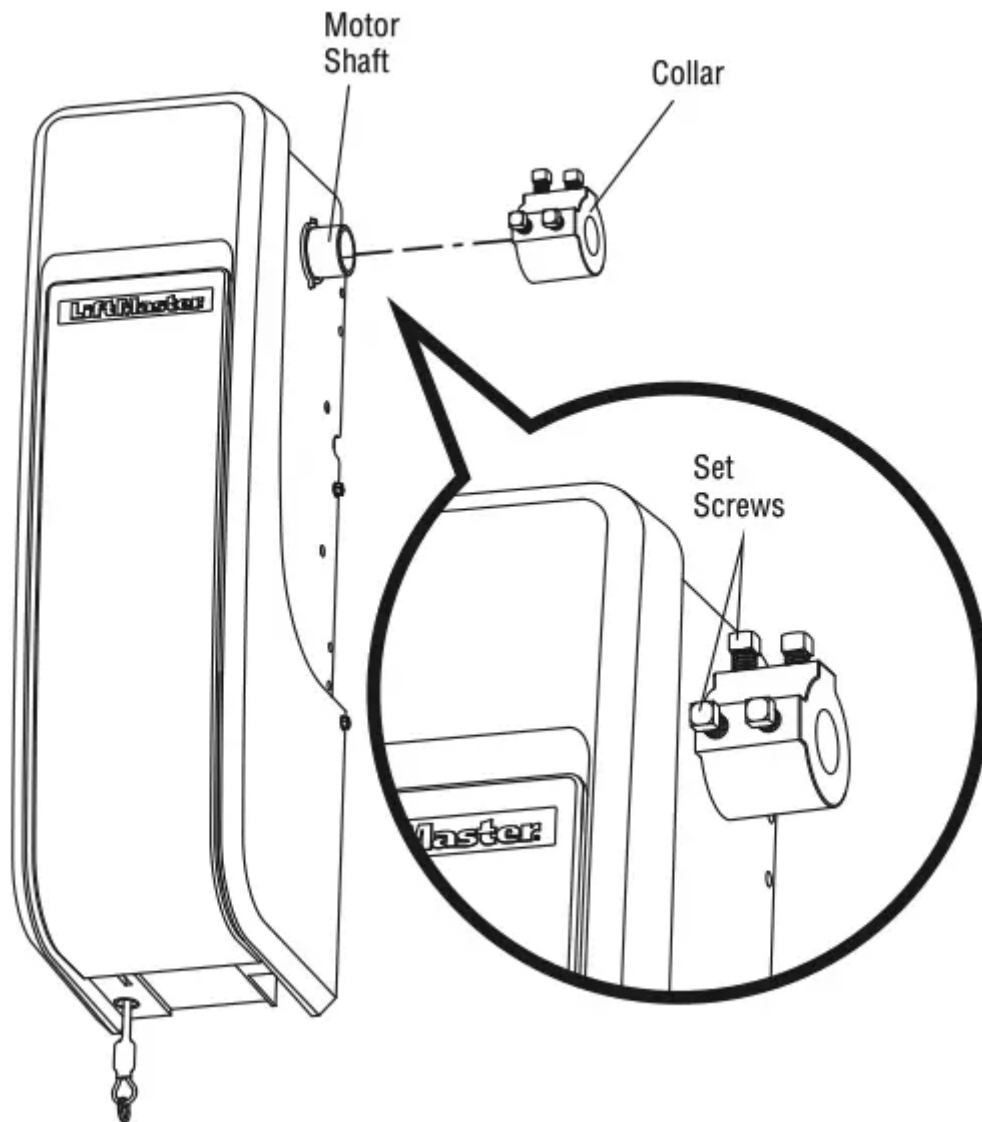
1. Attach the Collar to the Door Operator

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

The door operator can be installed on either side of the door (see Planning section page 3). The illustrations shown are for installation on the left side.

1. Loosen the set screws.
2. Attach collar to the door operator motor shaft. The side of the collar with the larger hole should be placed on the motor shaft. Ensure that the collar is seated all the way on motor shaft until stop is reached.
3. Position the collar so the screws are facing out and are accessible when attached to the torsion bar.
4. Securely tighten the 2 square head set screws closest to the motor shaft by turning the screws 1/4 - 1/2 turn after making contact with the motor shaft.

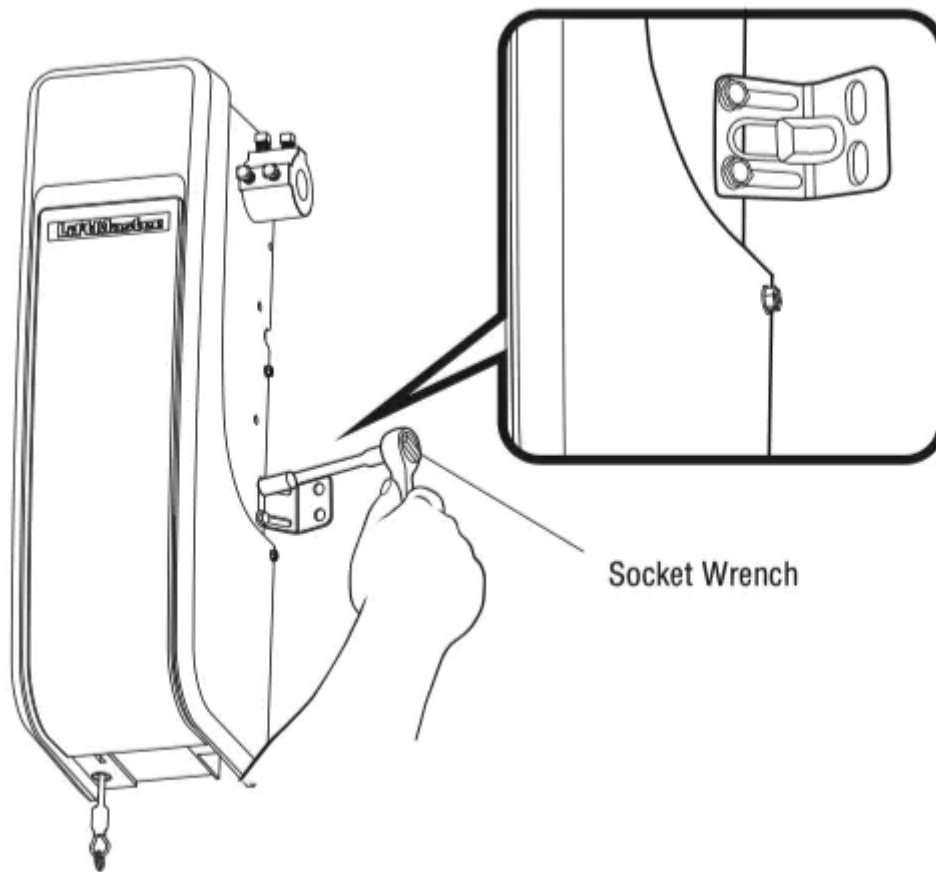
WARNING To prevent possible SERIOUS INJURY or DEATH, the collar MUST be properly tightened. The door may NOT reverse correctly or limits may be lost due to collar slip.



2. Attach Mounting Bracket to Door Operator

1. Loosely attach slotted side of mounting bracket to the same side of the door operator as the collar, using screws provided.

NOTE: Do not tighten screws until instructed.



HARDWARE

Screw
#10-32 (2)



Installation

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING To reduce the risk of SEVERE INJURY or DEATH:

1. READ AND FOLLOW ALL INSTALLATION WARNINGS AND INSTRUCTIONS.
2. Install door operator ONLY on properly balanced and lubricated door. An improperly balanced door may NOT reverse when required and could result in SEVERE INJURY or DEATH.
3. ALL repairs to cables, spring assemblies and other hardware MUST be made by a trained door systems technician BEFORE installing operator.
4. Disable ALL locks and remove ALL ropes connected to door BEFORE installing operator to avoid entanglement.

5. Where possible, install the door operator 7 feet (2.13 m) or more above the floor.
6. Mount the emergency release within reach, but at least 6 feet (1.83 m) above the floor and avoiding contact with vehicles to avoid accidental release.
7. NEVER connect door operator to power source until instructed to do so.
8. NEVER wear watches, rings or loose clothing while installing or servicing operator. They could be caught in door or operator mechanisms.
9. Install wall-mounted door control:
 - within sight of the door.
 - out of reach of children at a minimum height of 5 feet (1.5 m) above floors, landings, steps or any other adjacent walking surface.
 - away from ALL moving parts of the door.
10. Install the Emergency Release Marking. Attach the marking on or next to the emergency release. Install the Entrapment Warning Placard next to the door control in a prominent location.
11. Place emergency release/safety reverse test label in plain view on inside of door.
12. Upon completion of installation, test safety reversal system. Door MUST reverse on contact with a 1-1/2" (3.8 cm) high object (or a 2x4 laid flat) on the floor.

1. Position and Mount the Door Operator

NOTE: For additional mounting options refer to the accessories page.

1. Close the door completely.
2. Slide the door operator onto the end of the torsion bar. If the torsion bar is too long or damaged, you may need to cut the torsion bar.

Ensure the collar does NOT touch the bearing.

3. Use a level to position and vertically align the door operator. Verify the mounting bracket is located on a solid surface such as wood, concrete or door/flag bracket. If installing on drywall, the mounting bracket MUST be attached to a stud.
4. When the door operator is properly aligned, mark the mounting bracket holes. If necessary, tighten collar screws on the torsion bar to hold door operator in place while marking holes.

NOTE: The door operator does not have to be flush to wall.

5. Remove the door operator from torsion bar. Drill 3/16" pilot holes at the marked locations. Drill through metal door rail plates if necessary.
6. Slide the door operator back onto the torsion bar until pilot holes align with bracket.

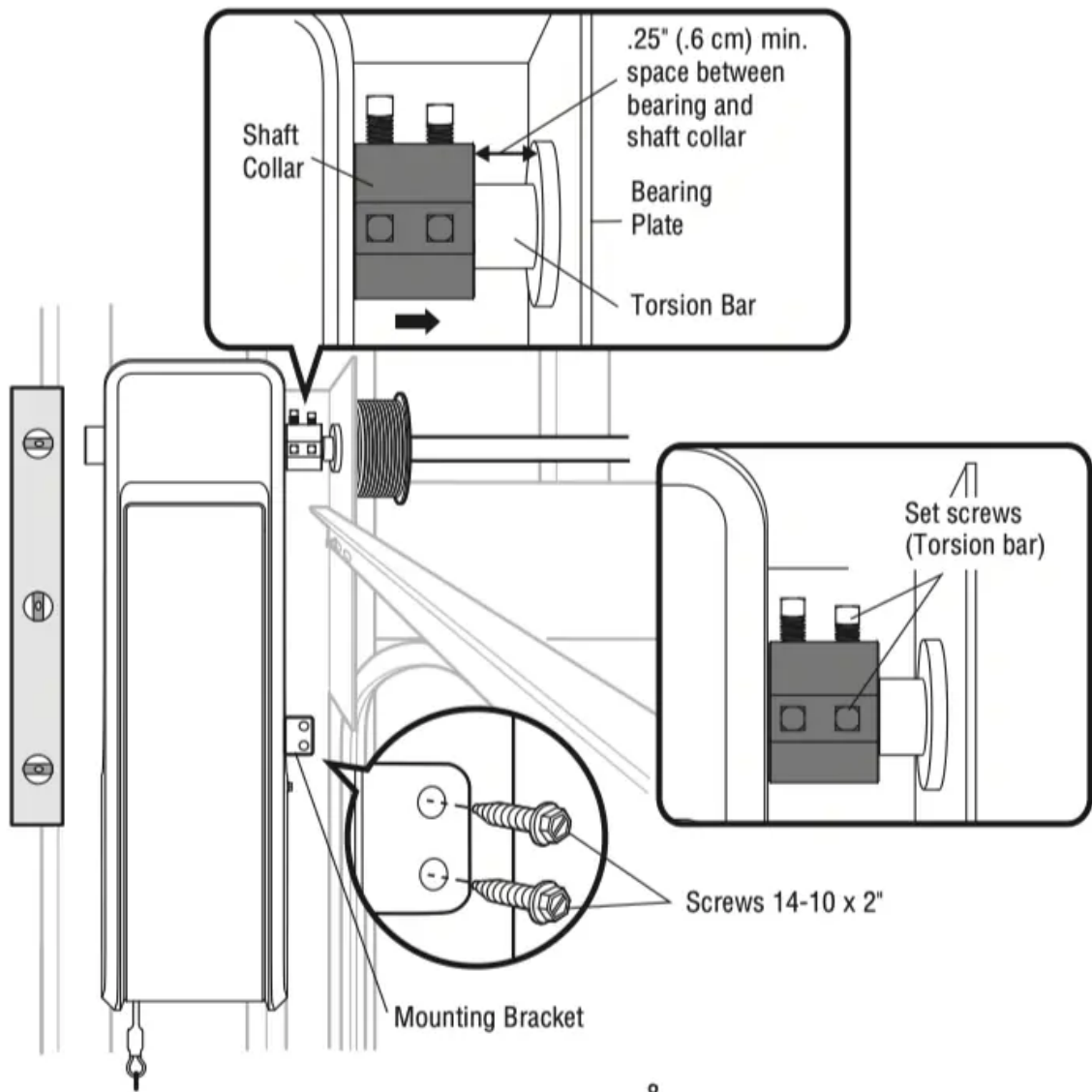
7. Tighten the 2 square head set screws on the torsion bar. For a hollow torsion bar, tighten screws 3/4 - 1 full turn after making contact with the bar. For a solid shaft torsion bar, tighten screws 1/4 - no more than 1/2 turn after making contact with the shaft. If installing on a keyed torsion bar, DO NOT tighten the screws into the keyway.

8. Secure the mounting bracket to the wall and to the door operator. Use the 14-10x2" screws to secure the mounting bracket to the wall.

WARNING

To prevent possible SERIOUS INJURY or DEATH:

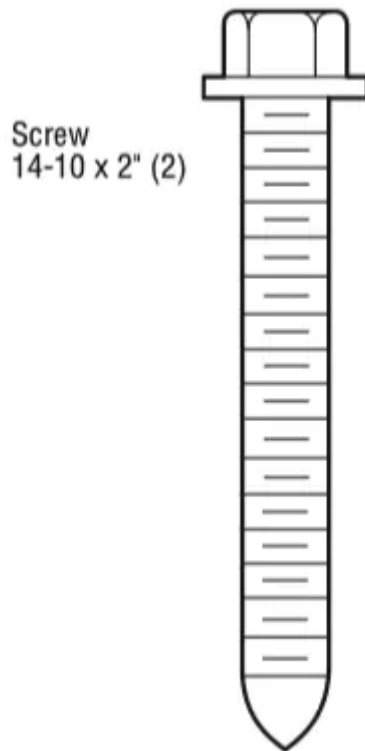
- Concrete anchors MUST be used if mounting bracket into masonry.
- NEVER try to loosen, move or adjust door, springs, cables, pulleys, brackets or their hardware, ALL of which are under EXTREME tension.
- ALWAYS call a trained door systems technician if door binds, sticks or is out of balance. An unbalanced door might NOT reverse when required.
- Operator MUST be mounted at a right angle to the torsion bar to avoid premature wear on the collar.



8

HARDWARE





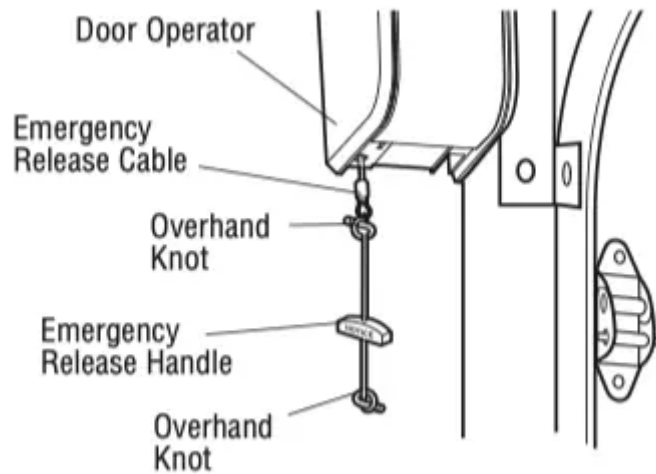
2. Attach the Emergency Release Rope and Handle

1. Insert one end of the emergency release rope through the handle. Make sure that "NOTICE" is right side up. Secure with an overhand knot at least 1" (2.5 cm) from the end of the rope to prevent slipping.
2. Insert the other end of the emergency release rope through the hole in the trolley release arm. Mount the emergency release within reach, but at least 6 feet (1.83 m) above floor, avoiding contact with vehicles to prevent accidental release and secure with an overhand knot.

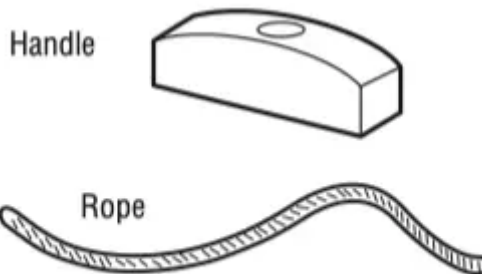
NOTE: If it is necessary to cut the rope, heat seal the cut end with a match or lighter to prevent unraveling.

WARNING To prevent possible SERIOUS INJURY or DEATH from a falling door:

- If possible, use emergency release handle to disengage door ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless doorway is clear of persons and obstructions.



HARDWARE



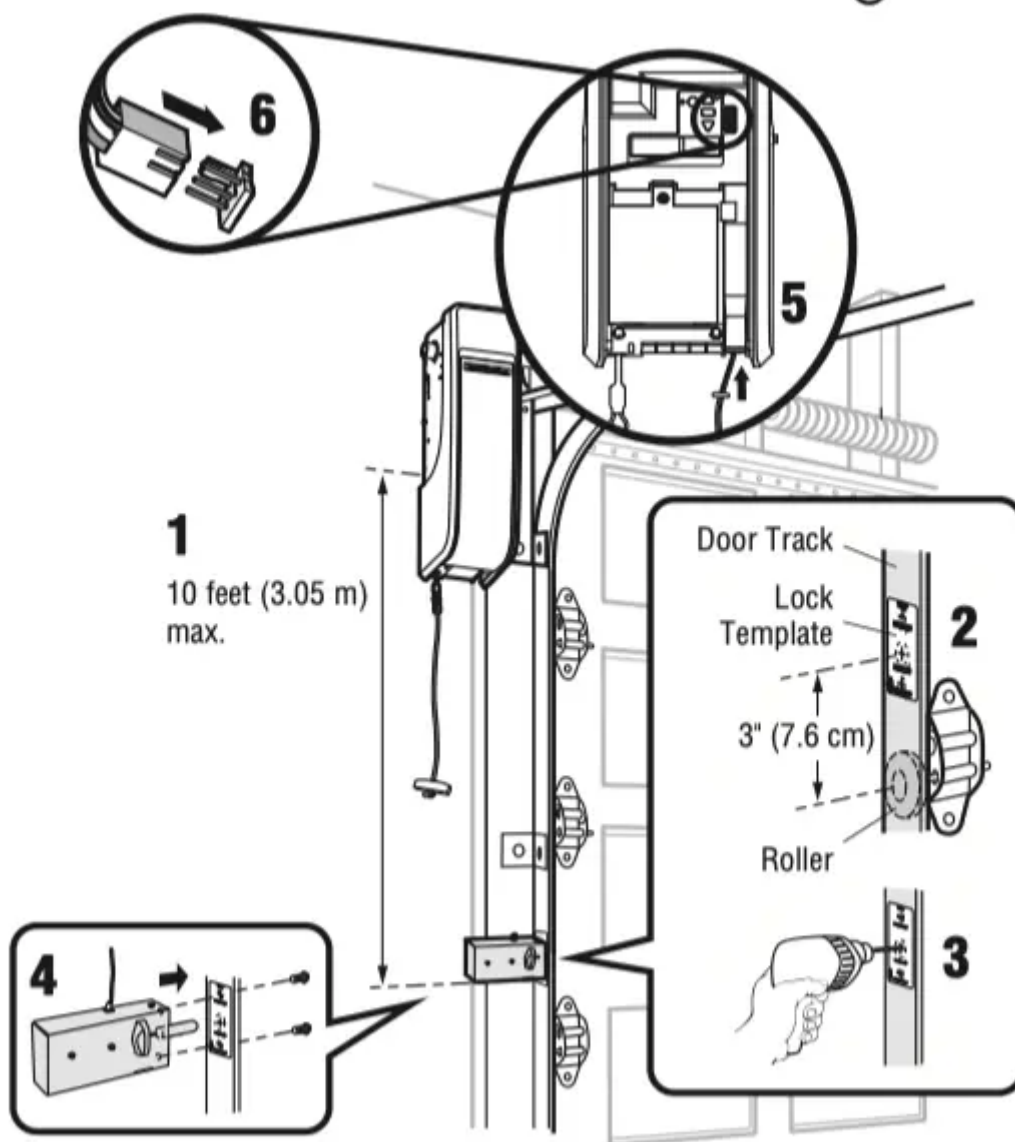
3. Install the Automatic Door Lock (Not Provided)

The automatic door lock (model 841LM) is used to prevent the door from being manually opened once the door is fully closed, see Accessories page 30.

NOTE: Older model 24 V door locks are incompatible.

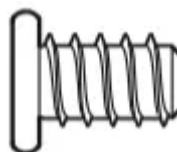
1. The lock must be mounted within 10 ft. (3.05 m) of door operator. If possible, mount on same side as door operator. The third roller from the bottom is ideal for most installations.
2. Ensure rail surface is clean and attach the lock template to the track so that the bolt hole is approximately 3" (7.6 cm) from the center of a door roller.
3. Drill holes as marked on the template.
4. Fasten automatic door lock to the outside of the door track with hardware provided.
5. Run bell wire up wall to door operator. Use insulated staples to secure wire in several places. Insert wire through the bottom of the door operator.
6. Plug the connector into either plug in the door operator.

A secondary door lock can be installed on the opposite side of the door following the instructions above



HARDWARE

Screw
1/4"-20x1/2" (2)



4. Attach the Cable Tension Monitor (Required)

NOTE: The cable tension monitor is shipped for left side installation. It is recommended that the cable tension monitor be installed on the same side of the door as the door operator. For right side installation, remove the snap-ring holding the roller in place and reassemble it on the opposite side of the cable tension monitor.

1. Make sure the door cable is approximately 3/4" (19 mm) from the mounting surface.

Door adjustments or shimming may be required to achieve proper depth for the door cable.

2. Position the cable tension monitor so the roller is 2"-6" from the drum and the roller extends 1/8"-1/4" past the cable. Make sure cable tension monitor is located over a wood support member and the roller is free from any obstructions. NOTE: There must be no obstructions in the installation area that prevent the cable tension monitor from closing completely when slack is detected.
3. Mark and drill 3/16" pilot holes for screws (pilot holes are not required for anchors).
4. Attach the cable tension monitor to the wall using the hardware provided. Make sure that the roller is on top of the cable.
5. Run bell wire to door operator. Use insulated staples to secure wire.
6. Connect bell wire to the green quick-connect terminals on the door operator (polarity is not important).

NOTE: Cable must have tension through entire door travel. Make sure there is no slack in cable on opposite side of door during normal operation. If slack occurs during door travel, adjust cables as required.

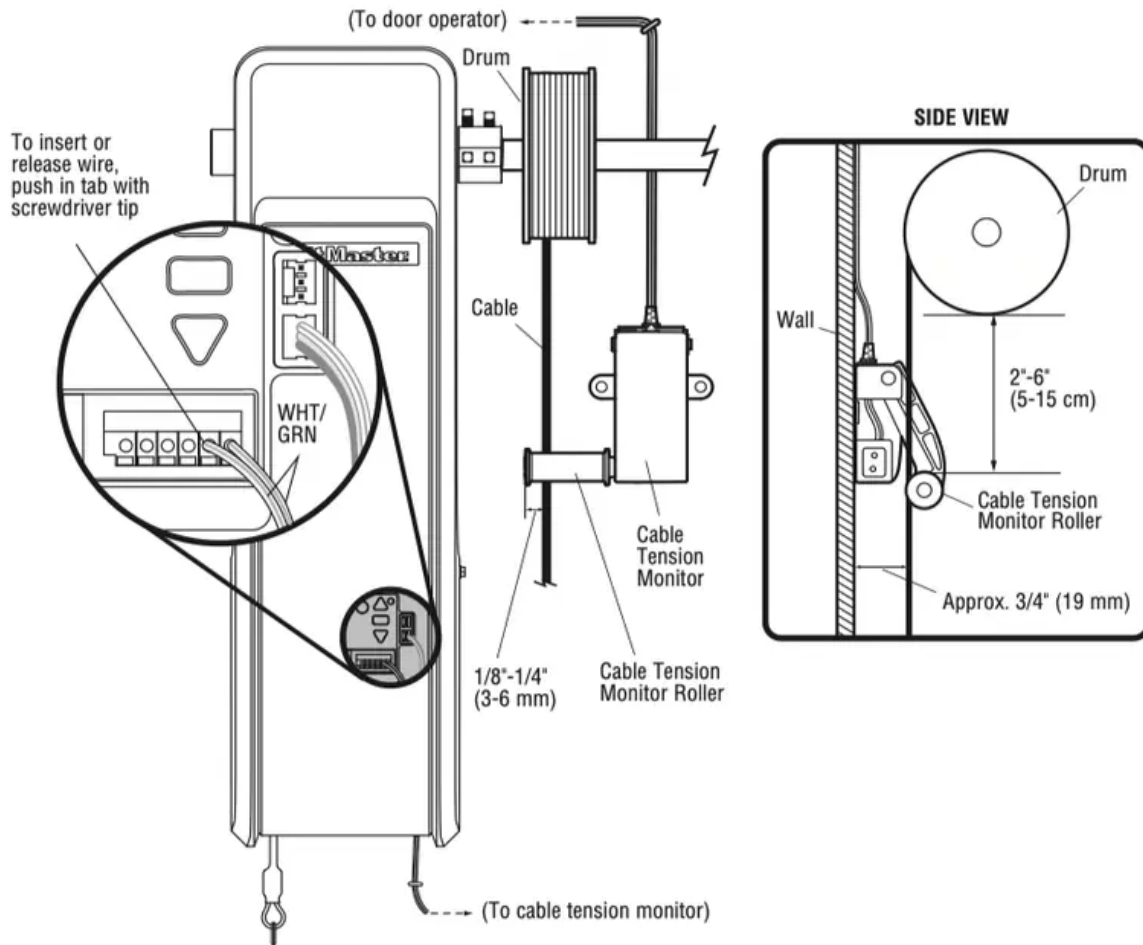
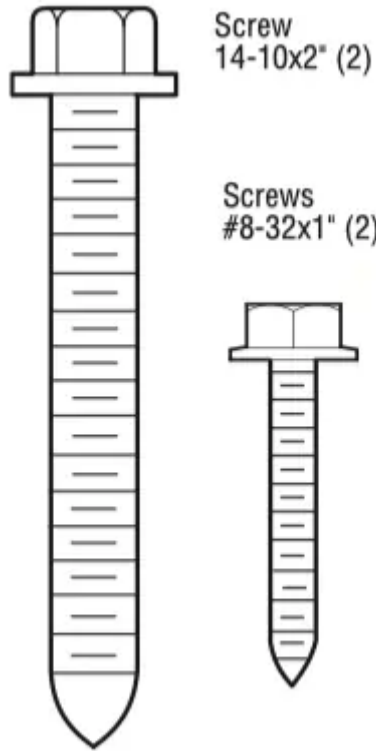
A second cable tension monitor may be installed for additional security. When two cable tension monitors are installed, the door will not move in the down direction or will reverse if one of the monitors detects slack or is disconnected.

If one of the cable tension monitors is removed, unplug both monitors from the operator. Then plug in the monitor you wish to use and unplug and plug in the operator three times to relearn the monitor to the operator.

The cable tension monitor **MUST** be connected and properly installed before the door operator will move in the down direction.

The cable tension monitor detects ANY slack that may occur in the cables and will reverse the door, eliminating service calls.

HARDWARE



5. Install the Single Button Control Station

Install door control within sight of door, out of reach of small children at a minimum height of 5 feet (1.5 m) above floors, landings, steps or any other adjacent walking surface, and away from ALL moving parts of door.

1. Remove the control station cover.
2. Fasten the control station to the wall at least 5' (1.5 m) above floors, landings, steps or any other adjacent walking surface. The installation surface must be smooth and flat.
3. Select appropriate knockout and run the wires to the operator.
4. Connect wires to the control station and replace the control station cover.
5. Fasten the warning placards to the wall next to the single button control station.

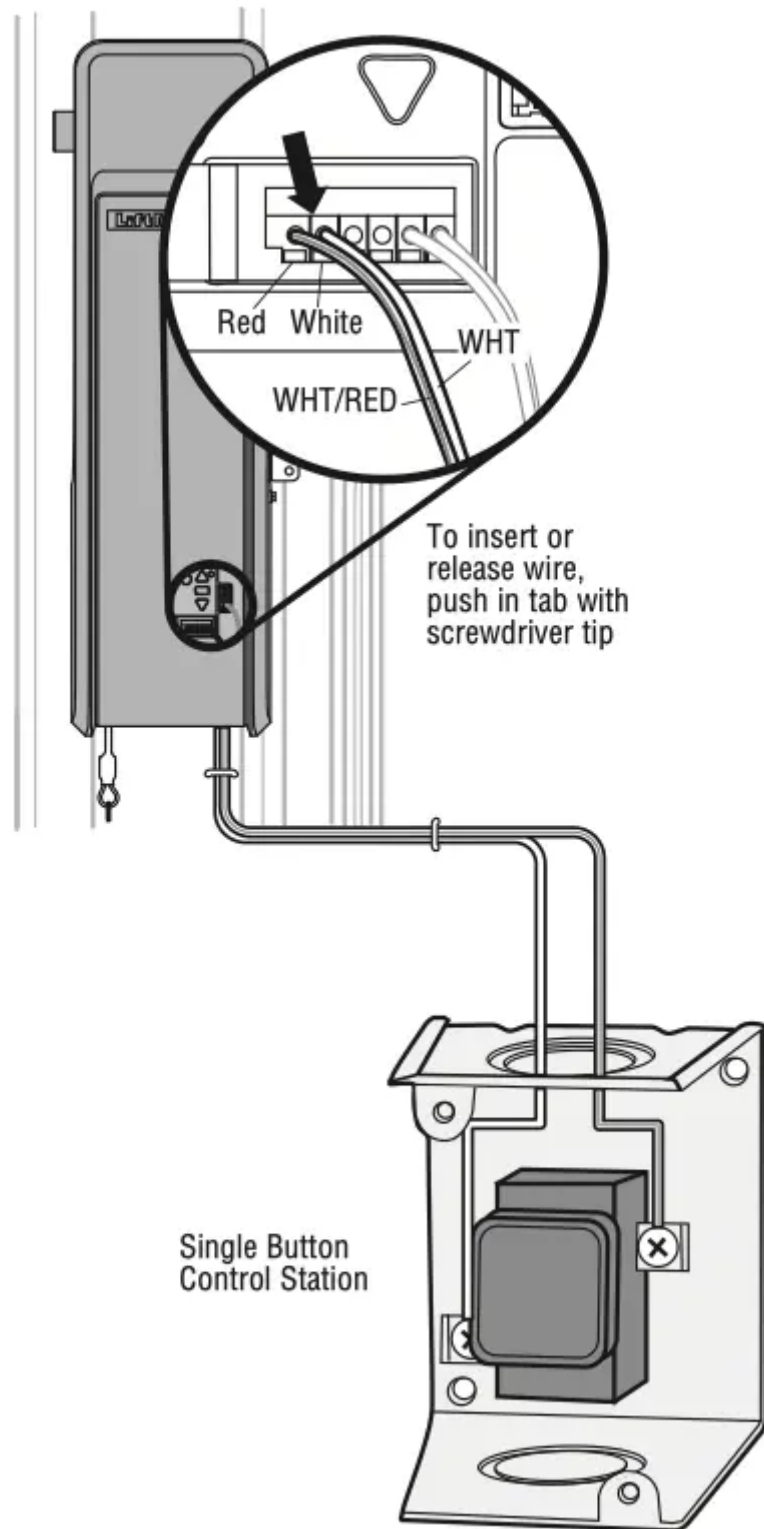
NOTE: DO NOT connect the power and operate the door operator at this time. The door will travel to the full open position but will not return to the close position until the safety reversing sensors are connected and properly aligned. See page 12.

WARNING To prevent possible SERIOUS INJURY or DEATH from electrocution:

- Be sure power is NOT connected BEFORE installing door control.
- Connect ONLY to 24 VOLT low voltage wires.

To prevent possible SERIOUS INJURY or DEATH from a closing door:

- Install door control within sight of door, out of reach of children at a minimum height of 5 feet (1.5 m) above floors, landings, steps or any other adjacent walking surface, and away from ALL moving parts of door.
- NEVER permit children to operate or play with door control push buttons or remote controls.
- Activate door ONLY when it can be seen clearly, is properly adjusted and there are no obstructions to door travel.
- ALWAYS keep door in sight until completely closed. NEVER permit anyone to cross path of closing door.



DO NOT EXCEED 10 DOOR OPERATIONS PER HOUR.
FASTEN LABEL ADJACENT TO DOOR.





6. Install the Protector System

WARNING

Be sure power is NOT connected to the door operator BEFORE installing the safety reversing sensor.

To prevent SERIOUS INJURY or DEATH from a closing door:

- Correctly connect and align the safety reversing sensor. This required safety device MUST NOT be disabled.
- Install the safety reversing sensor so beam is NO HIGHER than 6" (15 cm) above floor.

The safety reversing sensor must be connected and aligned correctly before the door will move in the down direction. This is a required safety device and cannot be disabled. The LiftMaster Light Curtain LC36A may be installed as an optional secondary safety device, see page 15.

IMPORTANT INFORMATION ABOUT THE SAFETY REVERSING SENSORS

When properly connected and aligned, the safety reversing sensor will detect an obstacle in the path of its electronic beam. The sending sensor (with an amber indicator light) transmits an invisible light beam to the receiving sensor (with a green indicator light).

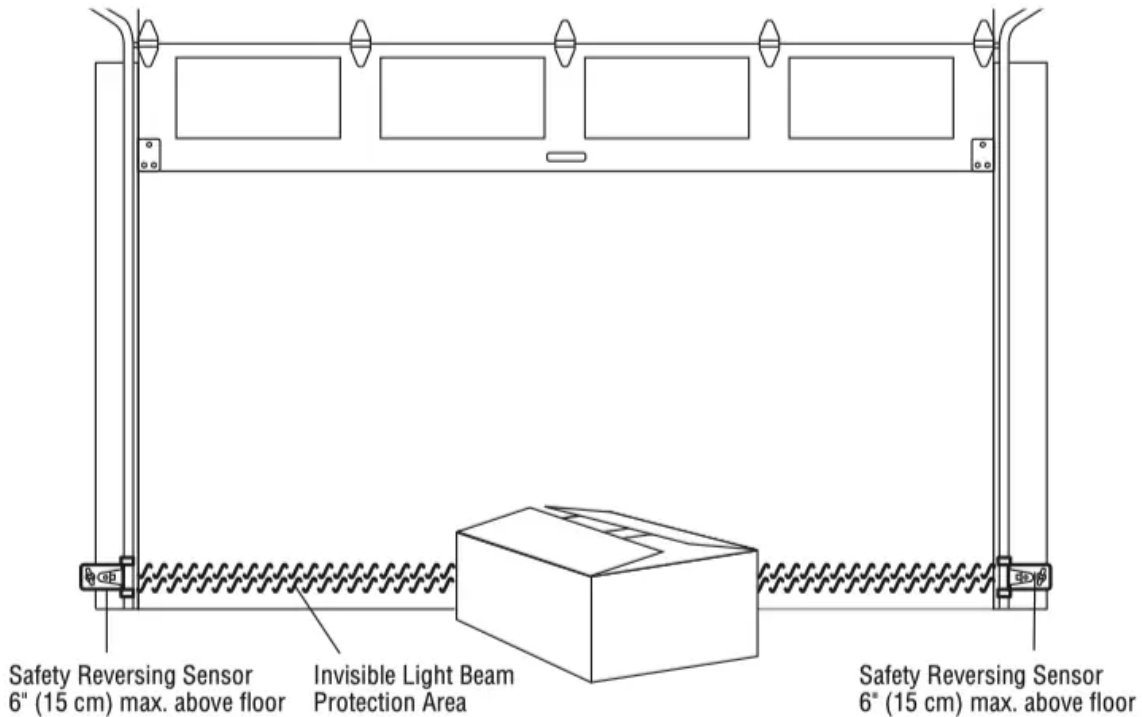
If an obstruction breaks the light beam while the door is closing the door will stop and reverse to the full open position.

The sensors must be installed inside the building so that the sending and receiving sensors face each other across the door, no more than 6" (15 cm) above the floor. Either can be installed on the left or right of the door as long as the sun never shines directly into the receiving sensor lens.

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

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

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



Facing the door from inside the building.

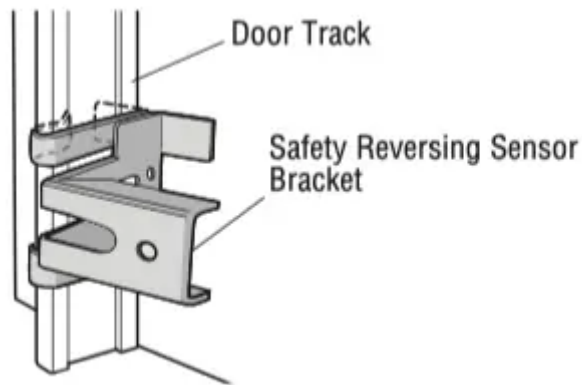
INSTALLING THE BRACKETS

Be sure power to the operator is disconnected. Install and align the brackets so the safety reversing sensors will face each other across the door, with the beam no higher than 6" (15 cm) above the floor. Choose one of the following installations.

OPTION A: TRACK INSTALLATION

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

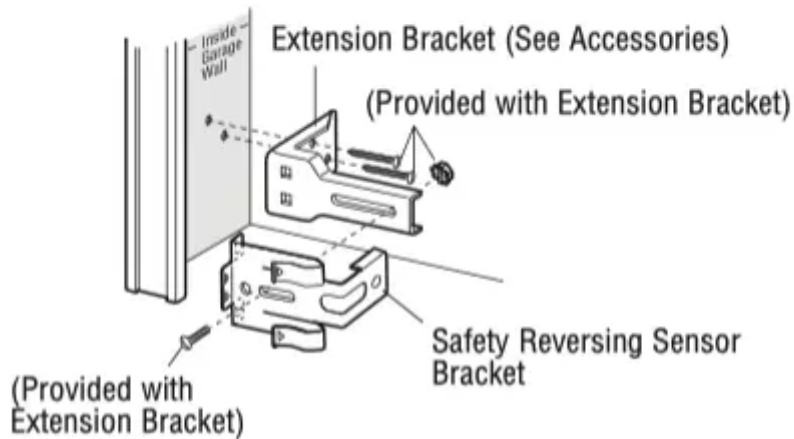
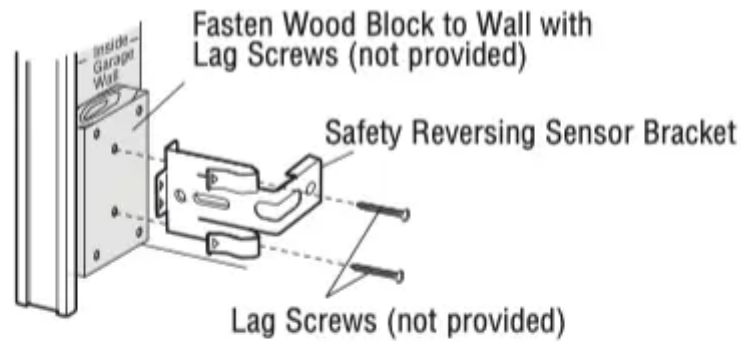
If your door track will not support the bracket securely, wall installation is recommended.



OPTION B: WALL INSTALLATION

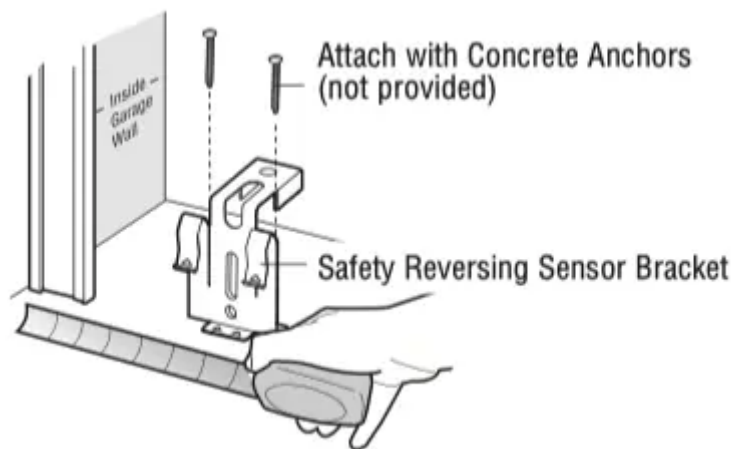
1. Place the bracket against the wall with curved arms facing the door. Be sure there is enough clearance for the sensor beam to be unobstructed.
2. If additional depth is needed, an extension bracket (see Accessories) or wood blocks can be used.
3. Use bracket mounting holes as a template to locate and drill (2) 3/16" diameter pilot holes on the wall at each side of the door, no higher than 6" (15 cm) above the floor.
4. Attach brackets to wall with lag screws (not provided).

If using extension brackets or wood blocks, adjust right and left assemblies to the same distance out from the mounting surface. Make sure all door hardware obstructions are cleared.



OPTION C: FLOOR INSTALLATION

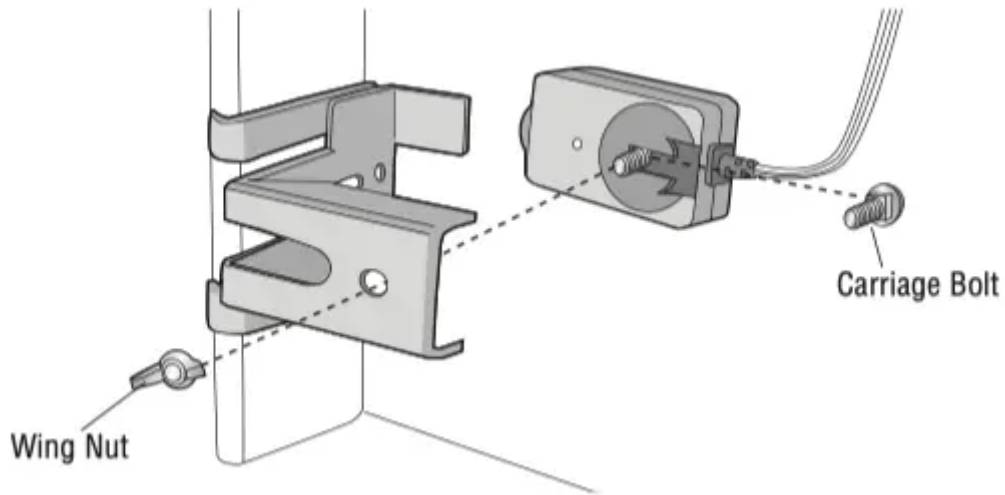
1. Use wood blocks or extension brackets (see Accessories) to elevate sensor brackets so the lenses will be no higher than 6" (15 cm) above the floor.
2. Carefully measure and place right and left assemblies at the same distance out from the wall. Be sure all door hardware obstructions are cleared.
3. Fasten to the floor with concrete anchors as shown.



MOUNTING THE SAFETY REVERSING SENSORS

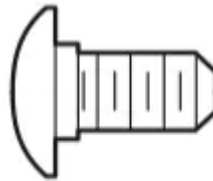
1. Slide a 1/4"-20x1/2" carriage bolt head into the slot on each sensor.

2. Use wing nuts to fasten safety reversing sensors to brackets, with lenses pointing toward each other across the door. Be sure the lens is not obstructed by a bracket extension.
3. Finger tighten the wing nuts.



HARDWARE

Carriage Bolt
1/4"-20x1/2" (2)

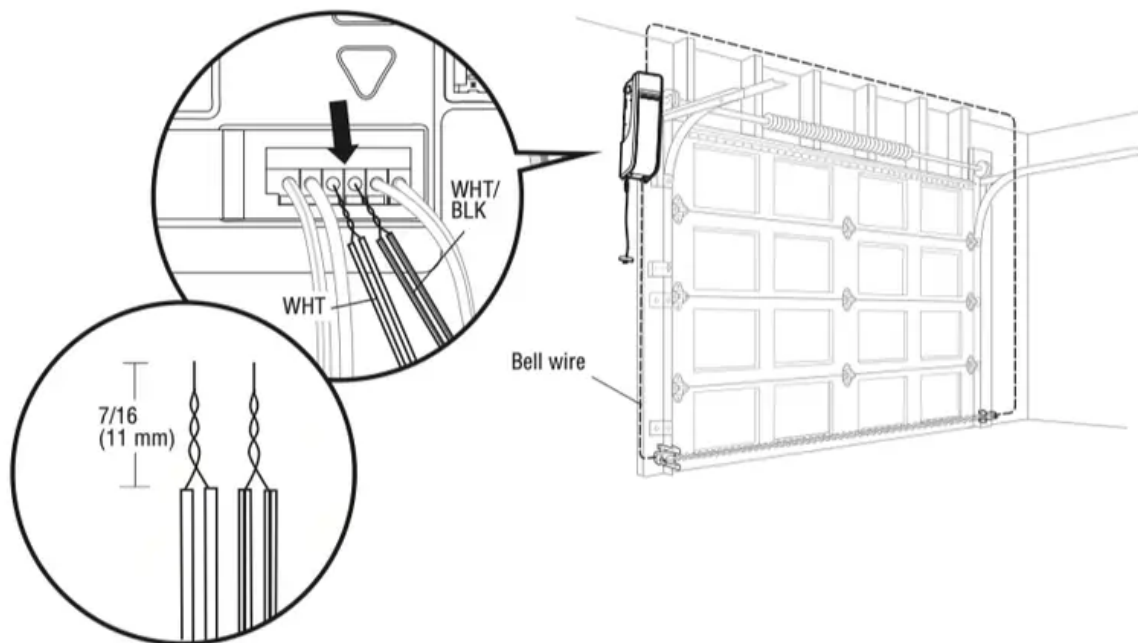


Wing Nut
1/4"-20 (2)



WIRE THE SAFETY REVERSING SENSORS

1. Run the wire from both sensors to the door operator. Attach the ceiling with the staples. wire to the wall and
2. Strip 7/16" (11 mm) of insulation from each set of wires. Separate the wires. Twist the white wires together. Twist the white/black wires together.
3. Insert the white wires into the white terminal on the door operator. Insert the white/ black wires into the grey terminal on the door operator. To insert or remove the wires from the terminal, push in the tab with a screwdriver tip.



7. Install the Light Curtain (Not Provided)

WARNING

To prevent possible SERIOUS INJURY or DEATH from a closing door:

- Be sure to DISCONNECT POWER to the operator BEFORE installing the Light Curtain.
- The door MUST be in the fully opened or closed position BEFORE installing the Light Curtain.
- Correctly connect and align the Light Curtain transmitter and receiver.
- The Light Curtain is for use with LiftMaster Commercial Doors. Use with ANY other product voids the warranty.
- DO NOT use this product for the protection of dangerous machinery or in explosive atmospheres or radioactive environments. Use ONLY specific and approved types of devices for such applications.
- The Light Curtain MUST be installed ONLY by authorized and fully trained personnel.
- LiftMaster Monitored Entrapment Protection devices are required in addition to the Light Curtain. The Light Curtain may NOT be used as the sole entrapment protection device for ANY entrapment zone.

The following are general instructions for a typical installation, refer to the complete instructions included with the Light Curtain.

The plug-in power supply accessory (model 100MAPS) is required to power the Light Curtain. LiftMaster Light Curtain (Model LC-36A) is an ancillary entrapment protection device designed with 8 optical sensors that form 22 total invisible light beams which create a cross-pattern or netting

effect for maximum protection against entrapment. If an obstruction breaks any light beam while the door is closing, the operator will stop and reverse to the full open position. The Light Curtain Transmitter must be installed facing the Light Curtain Receiver across the entrapment zone, 12" (30.5 cm) above the primary monitored entrapment protection device. The minimum installation width is 3 ft. (.91 m) and the maximum width is 33 ft. (10 m).

NOTE: Ensure that no part of the door, door tracks, springs, hinges, rollers, cords or other hardware interrupts the light beam while the door is closing.

INSTALLATION

1. Fasten the mounting brackets loosely to both Light Curtains with the screws provided.
2. Measure a minimum of 12" above the safety reversing sensors. Mark this location. The Light Curtain must be installed above this point.
3. Hold the Light Curtain up to the desired mounting location with the cable end pointing upward. Secure the bottom mounting bracket to the mounting surface. The mounting brackets must be securely fastened to a solid surface such as a wall framing.
4. Make sure the Light Curtain is level and secure the upper mounting bracket to the mounting surface.
5. Tighten the screws to secure the Light Curtain to the mounting bracket.
6. Secure the other Light Curtain to the opposite side of the door following steps 2 - 5, making sure they are aligned.

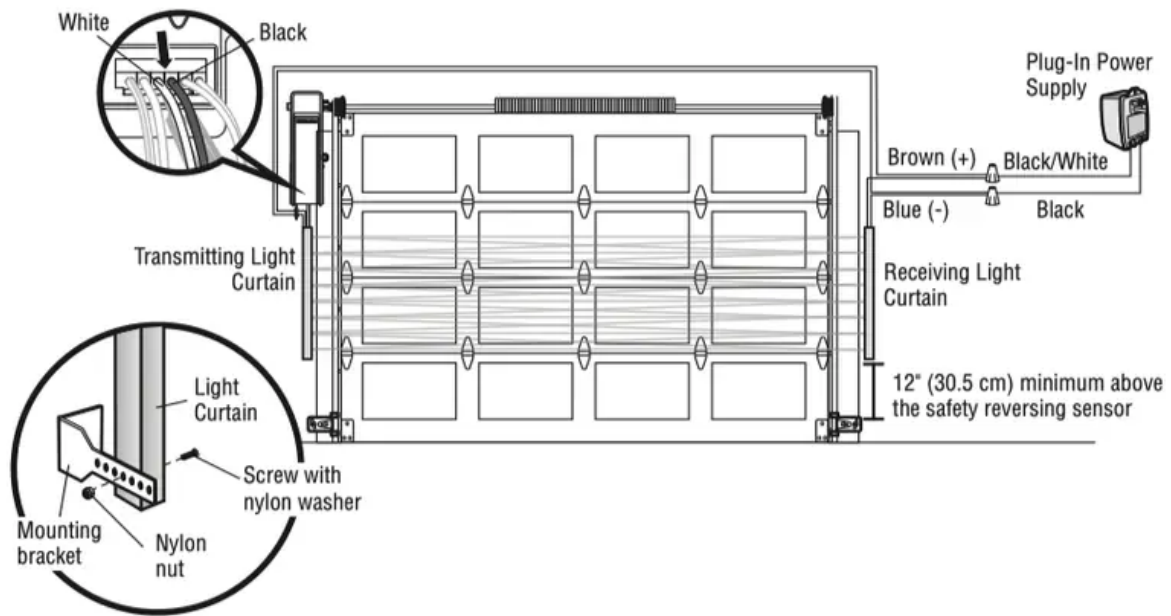
WIRING

Transmitting Light Curtain:

- White Wire to white terminal on door operator
- Black Wire to gray terminal on door operator

Transmitting and Receiving Light Curtains:

- Brown Wire (+) to White/Black on power supply
- Blue Wire (-) to Black on power supply



8. Connect Power

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

To reduce the risk of electric shock, your door operator 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.

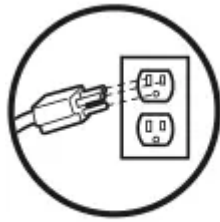
WARNING To prevent possible SERIOUS INJURY or DEATH from electrocution or fire:

- Be sure power is NOT connected to the operator, and disconnect power to circuit BEFORE removing cover to establish permanent wiring connection.
- Door installation and wiring MUST be in compliance with ALL local electrical and building codes.
- NEVER use an extension cord, 2-wire adapter or change plug in ANY way to make it fit outlet. Be sure the operator is grounded.

There are two options for connecting power:

OPTION A: TYPICAL WIRING

1. Plug in the door operator into a grounded outlet.
2. DO NOT run door operator at this time.



RIGHT



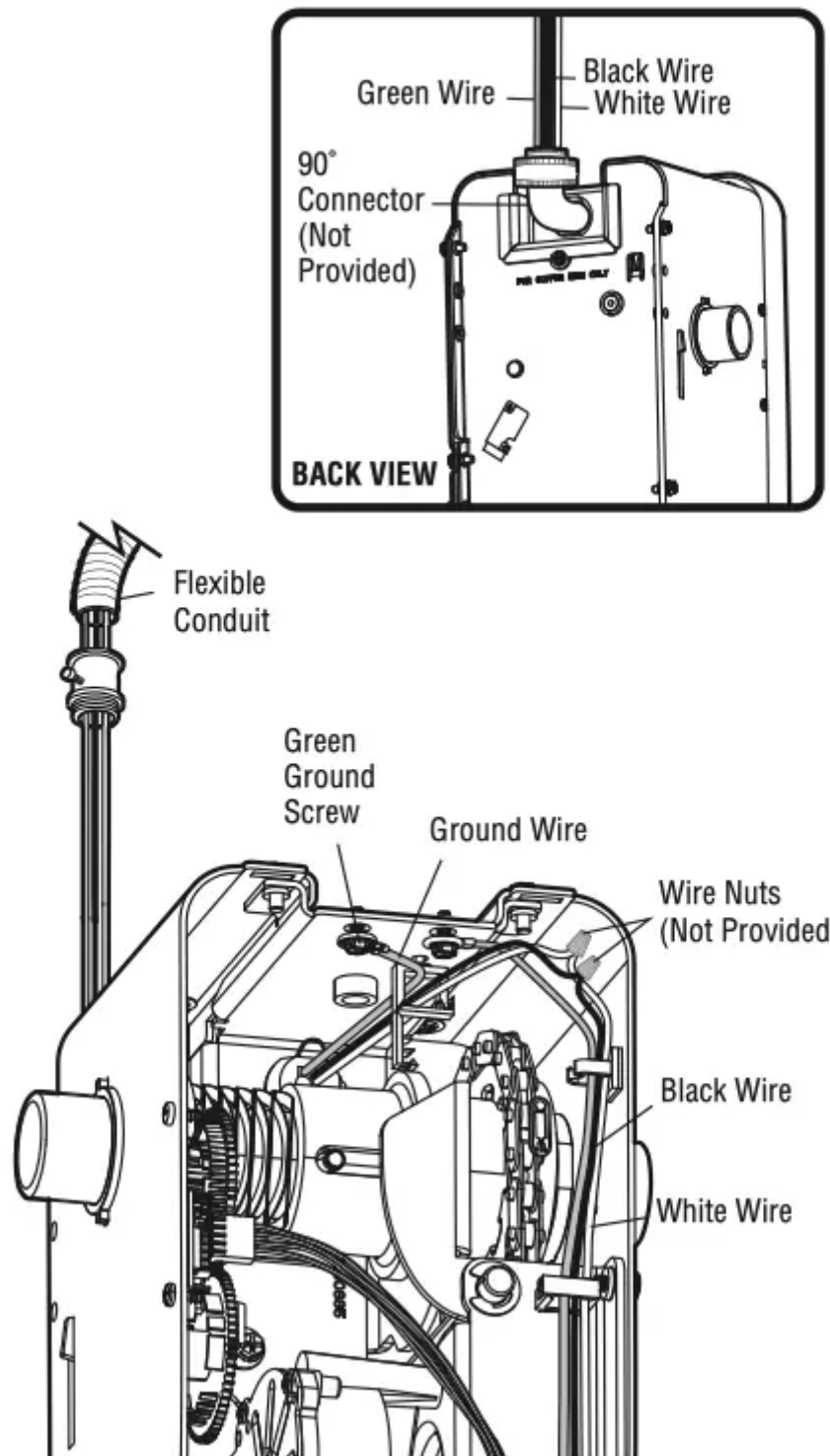
WRONG

OPTION B: PERMANENT WIRING CONNECTION

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

To make a permanent connection through the 7/8" hole in the back of the door operator (according to local code):

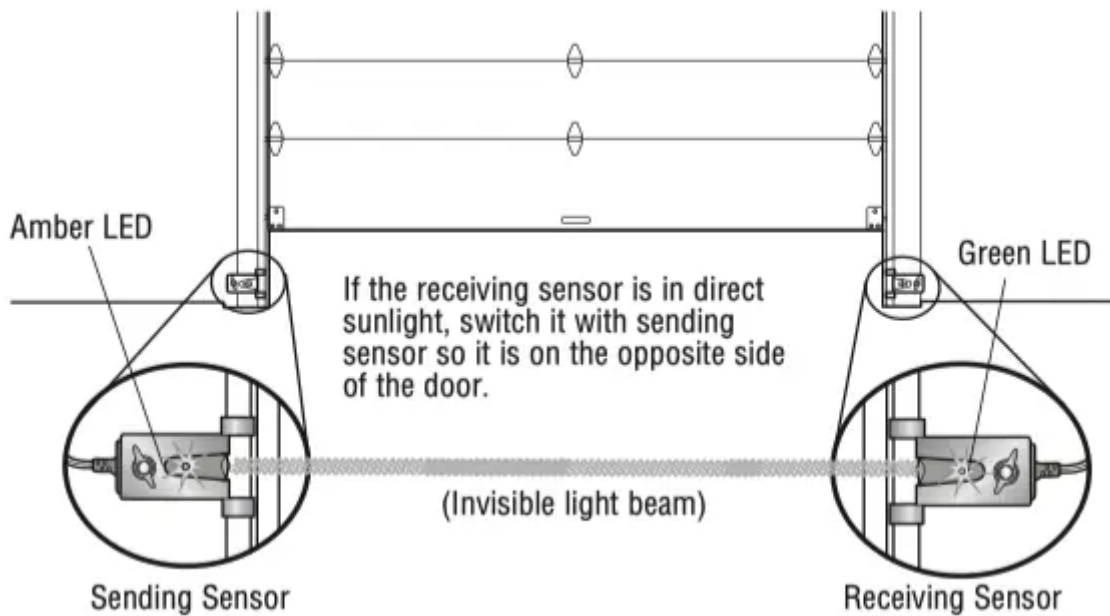
1. Be sure power is NOT connected to the door operator, and disconnect power to circuit.
2. Remove the door operator from the torsion bar, remove cover screws and set the cover aside.
3. Cut the line cord 6" (15.2 cm) above the strain relief.
4. Squeeze the strain relief and push into motor unit, then remove the strain relief from the line cord.
5. Install a 90° conduit (not provided) or flex cable adapter (not provided) to the 7/8" hole. Reinstall door operator to torsion bar.
6. Run wires through conduit, cut to proper length and strip insulation.
7. Strip 1/2" (1.3 cm) of insulation from the existing black, white and green wires.
8. Connect the line to the black wire and neutral to the white wire with wire nuts (not provided). Connect ground wire to the green ground screw.
9. Properly secure wires under plastic ties so that they do not come into contact with moving parts.
10. Reinstall cover.



ENSURE THE SAFETY REVERSING SENSORS ARE ALIGNED

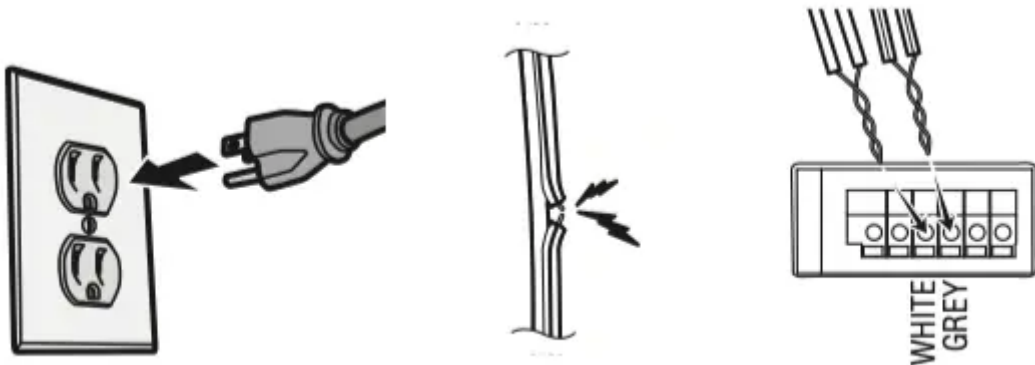
The door will not close if the sensors have not been installed and aligned correctly. When the light beam is obstructed or misaligned while the door is closing, the door will reverse. If the door is already open, it will not close. The sensors can be aligned by loosening the wing nuts, aligning the sensors, and tightening the wing nuts.

1. Check to make sure the LEDs in both sensors are glowing steadily. The LEDs in both sensors will glow steadily if they are aligned and wired correctly.



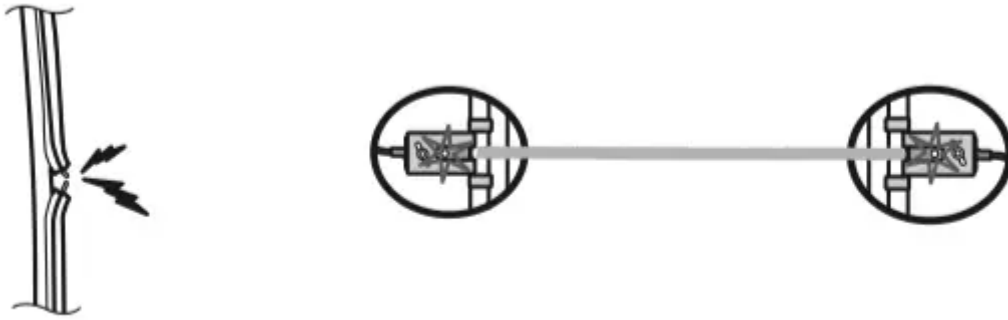
IF THE AMBER LED ON THE SENDING SENSOR IS NOT GLOWING:

- Make sure there is power to the door operator.
- Make sure the sensor wire is not shorted/broken.
- Make sure the sensor has been wired correctly: white wires to white terminal and white/black wires to grey terminal.



IF THE GREEN LED ON THE RECEIVING SENSOR IS NOT GLOWING:

- Make sure the sensor wire is not shorted/broken.
- Make sure the sensors are aligned.



9. Install the Battery Backup (Not Provided)

WARNING

To reduce the risk of FIRE or INJURY to persons:

- Disconnect ALL electric and battery power BEFORE performing ANY service or maintenance.
- Use ONLY LiftMaster part # 485LM for replacement battery.
- DO NOT dispose of battery in fire. Battery may explode. Check with local codes for disposal instructions.

CAUTION

ALWAYS wear protective gloves and eye protection when changing the battery or working around the battery compartment.

When in Battery Backup mode, myQ Smartphone Control and wireless myQ devices will be disabled.

1. Unplug the door operator.
2. Use a Phillips head screwdriver to remove the battery cover on the door operator.
3. Partially insert the battery into the battery compartment with the terminals facing out.
4. Connect red (+) and black (-) wires from the door operator to the corresponding terminals on the battery.
5. Replace the battery cover.
6. Plug in the door operator.

BATTERY STATUS LED

Green LED:

All systems are normal.

- A solid green LED light indicates the battery is fully charged.
- A flashing green LED indicates the battery is being charged.

Orange LED:

The door operator has lost power and is in battery backup mode.

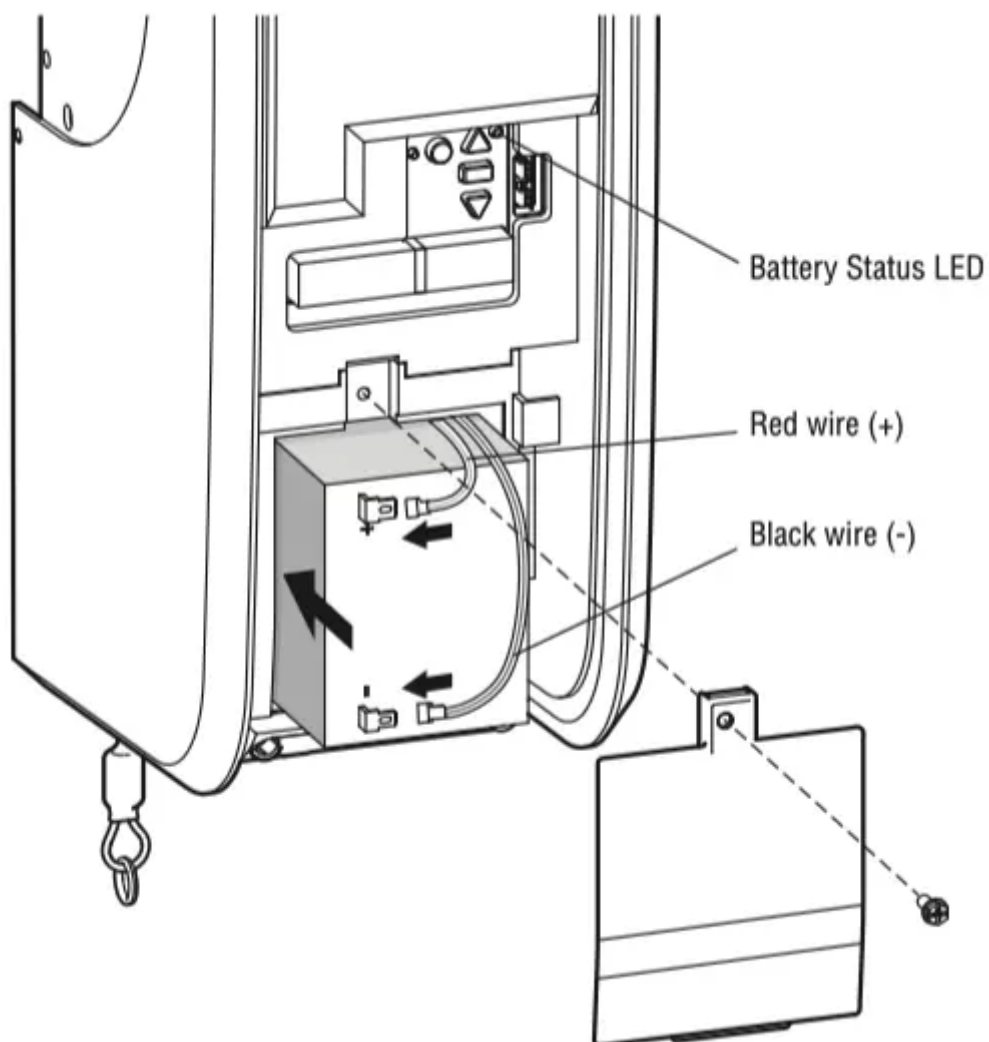
- A solid orange LED with beep, sounding approximately every 2 seconds, indicates the door operator is operating on battery power.
- A flashing orange LED with beep, sounding every 30 seconds, indicates the battery is low.

Red LED:

The door operator's 12V battery needs to be replaced.

- A solid red LED with beep, sounding every 30 seconds, indicates the 12V battery will no longer hold a charge and needs to be replaced. Replace the battery to maintain the battery backup feature.

NOTE: Battery does not have to be fully charged to activate the door operator.



Adjustments

1. Program the Travel

Travel limits regulate the points at which the door will stop when moving up or down.

While programming, the UP and DOWN buttons can be used to move the door as needed.

1. Press and hold the Adjustment Button until the UP Button begins to flash and/or a beep is heard.
2. Press and hold the UP Button until the door is in the desired UP position.
3. Once the door is in the desired UP position press and release the Adjustment Button. The door operator will beep and the DOWN button will flash.
4. Press and hold the DOWN Button until the door is in the desired DOWN position.
5. Once the door is in the desired DOWN position press and release the Adjustment Button. The door operator will beep and the UP button will flash.
6. Press and release the UP Button. When the door travels to the programmed UP position, the DOWN Button will begin to flash.
7. Press and release the DOWN Button. The door will travel to the programmed DOWN position. Programming is complete.

If you are unable to program the travel:

- Ensure the cable tension monitor is correctly installed (see page 10).
- Check to see if the safety reversing sensors are misaligned or obstructed (refer to page 17). When the sensors are aligned and unobstructed, cycle the door through a complete up and down cycle using the remote control or the UP and DOWN buttons. If you are unable to operate the door up and down, repeat the steps above.

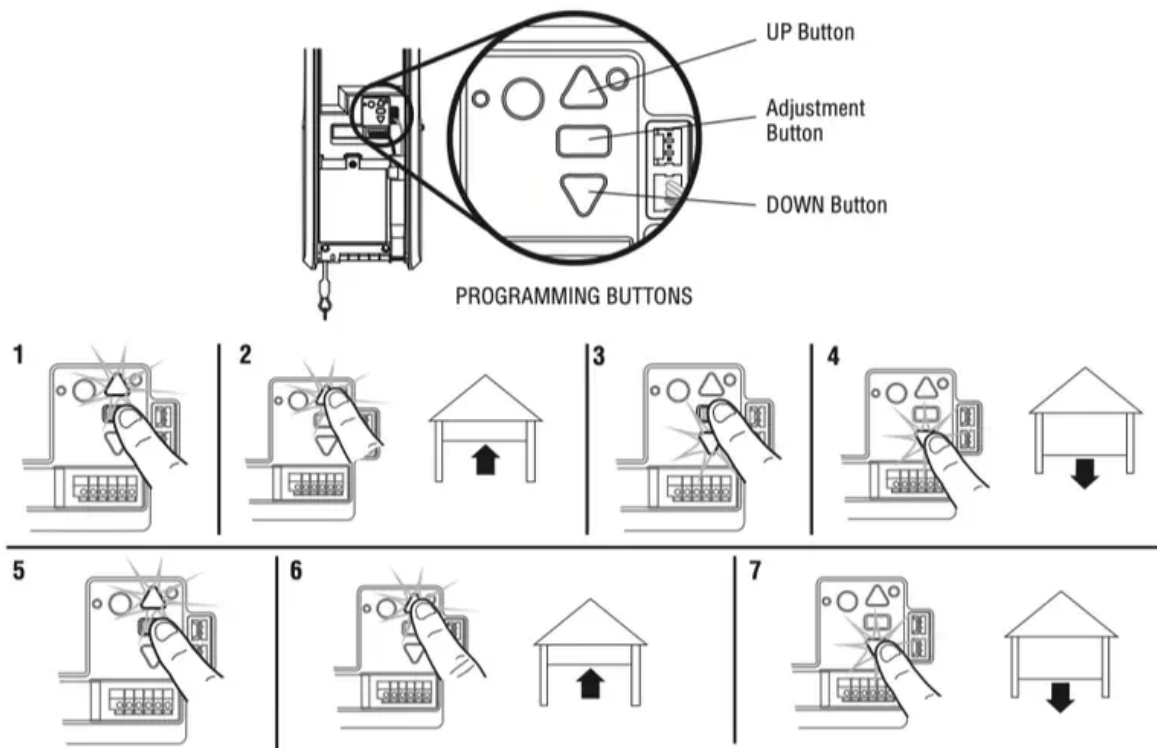
WARNING

Without a properly installed safety reversal system, persons (particularly small children) could be **SERIOUSLY INJURED** or **KILLED** by a closing door.

- Incorrect adjustment of door travel limits will interfere with proper operation of safety reversal system.
- After ANY adjustments are made, the safety reversal system **MUST** be tested. Door **MUST** reverse on contact with 1-1/2" high (3.8 cm) object (or 2x4 laid flat) on floor.

CAUTION

To prevent damage to vehicles, be sure fully open door provides adequate clearance.



2. Test the Safety Reversal System

TEST

1. With the door fully open, place a 1-1/2" (3.8 cm) board (or a 2x4 laid flat) on the floor, centered under the door.
2. Operate the door in the down direction. The door MUST reverse when it makes contact with the board.

ADJUST

If the door stops but does not reverse:

1. Review the installation instructions provided to insure all steps were followed;
2. Repeat Program the Travel (see Adjustment Step 1);
3. Repeat the Safety Reversal test. If the test continues to fail, call a trained door systems technician.

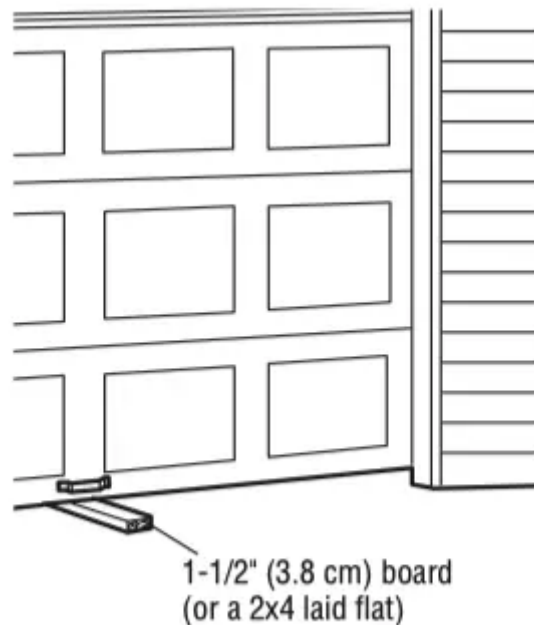
IMPORTANT SAFETY CHECK:

Test the Safety Reverse System after:

- Each adjustment of limits.
- Any repair to or adjustment of the door (including springs and hardware).
- Any repair to or buckling of the floor.
- Any repair to or adjustment of the operator.

WARNING Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing door.

- Safety reversal system **MUST** be tested every month.
- After ANY adjustments are made, the safety reversal system **MUST** be tested. Door **MUST** reverse on contact with 1-1/2" (3.8 cm) high object (or 2x4 laid flat) on the floor.



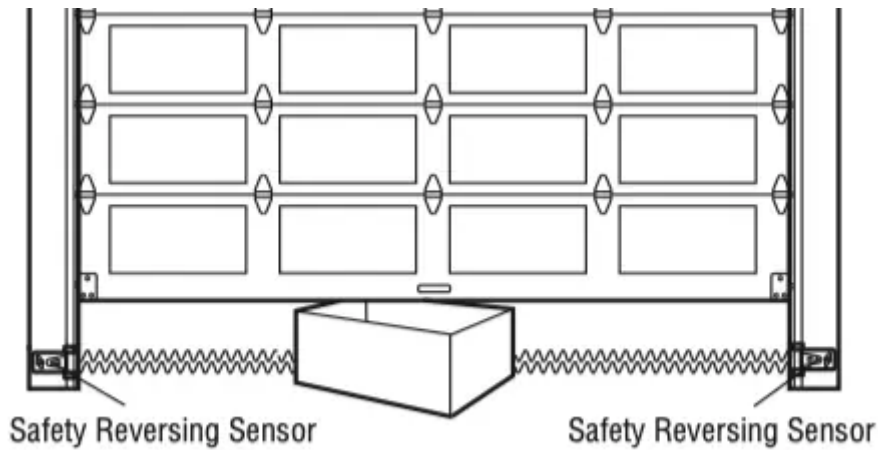
3. Test the Protector System

1. Press the control station button to open the door.
2. Place the operator carton in the path of the door.
3. Press the control station button to close the door. The door will not move more than an inch (2.5 cm).

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

If the door operator closes the door when the safety reversing sensor is obstructed, do not operate the door. Call for a trained door systems technician.

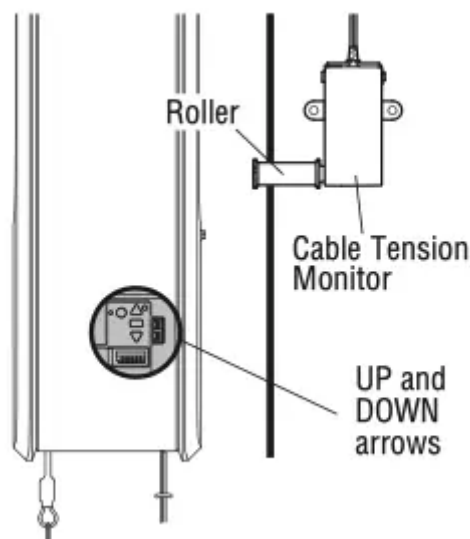
WARNING Without a properly installed safety reversing sensor, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing door.



4. Test Cable Tension Monitor

1. With the door fully closed, push on the front of the cable tension monitor. A click should be heard. If there is no click, the roller may be hitting the jamb and not allowing the switch to detect slack in the cable. Make sure the cable tension monitor is mounted flush with the wall and the roller is free from any obstructions.

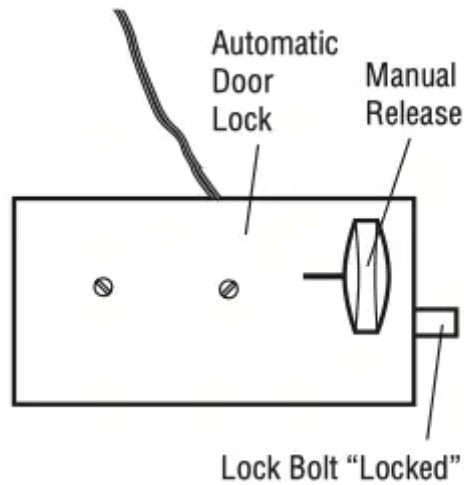
If your cable tension monitor has been activated the UP and DOWN arrows will flash diagnostic code 3-5, see page 26.



5. Test Automatic door lock (Not Provided)

1. With the door fully closed, the automatic door lock bolt should be protruding through the track.
2. Operate the door in the open direction. The automatic door lock should retract before the door begins to move.
3. Operate the door in the down direction. When the door reaches the fully closed position, the automatic door lock should move into lock position to secure the door.

NOTE: If the automatic door lock does not function, the lock can be manually released by sliding the manual release handle to the open position.



6. To Open the Door Manually

Disengage any door locks before proceeding. The door should be fully closed if possible. Pull down on the emergency release handle until a click noise is heard from the door operator and lift the door manually.

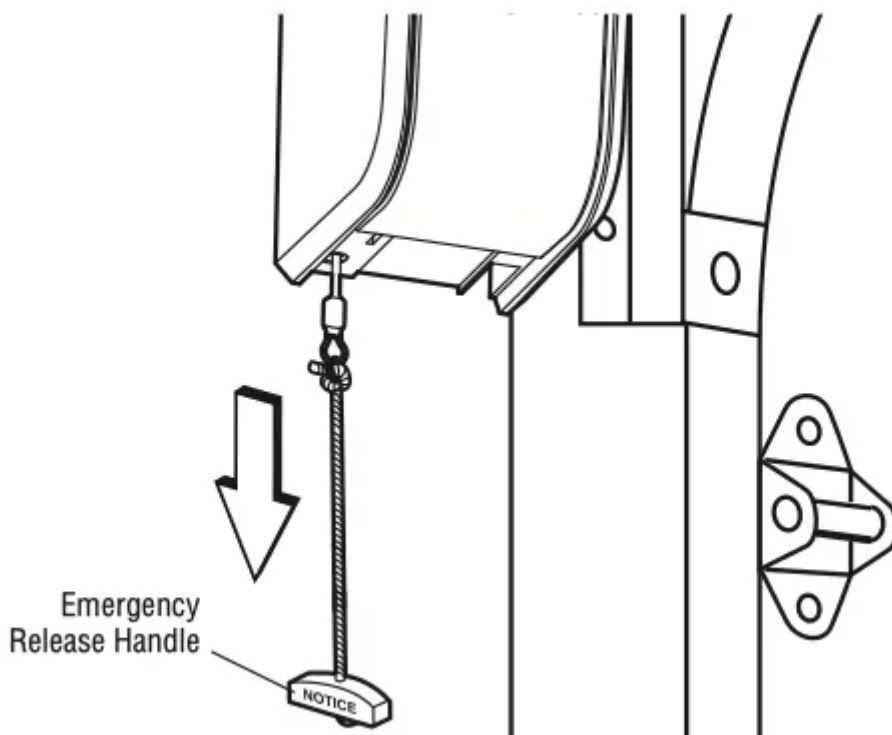
To reconnect the door to the door operator, pull the emergency release handle straight down a second time until a click noise is heard from the door operator. The door will reconnect on the next UP or DOWN operation.

TEST THE EMERGENCY RELEASE:

1. Make sure the door is closed.
2. Pull the emergency release handle. The door should then be able to be opened manually.
3. Return the door to the closed position.
4. Pull the emergency handle a second time.
5. Reconnect the door to the door operator.

WARNING To prevent possible SERIOUS INJURY or DEATH from a falling door:

- If possible, use emergency release handle to disengage door ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless doorway is clear of persons and obstructions.



Operation

WARNING To reduce the risk of SEVERE INJURY or DEATH:

1. READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS.
2. ALWAYS keep remote controls out of reach of children.
NEVER permit children to operate or play with door control push buttons or remote controls.
3. ONLY activate door when it can be seen clearly, it is properly adjusted and there are no obstructions to door travel.
4. ALWAYS keep door in sight and away from people and objects until completely closed.
NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
5. NO ONE SHOULD GO UNDER A STOPPED, PARTIALLY OPENED DOOR.
6. If possible, use emergency release handle to disengage door ONLY when door is CLOSED. Use caution when using this release with the door open. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly and increasing the risk of SEVERE INJURY or DEATH.
7. NEVER use emergency release handle unless doorway is clear of persons and obstructions.
8. After ANY adjustments are made, the safety reversal system MUST be tested. Failure to adjust the door operator properly may cause SEVERE INJURY or DEATH.

9. Safety reversal system MUST be tested every month. Door MUST reverse on contact with 1-1/2" (3.8 cm) high object (or a 2x4 laid flat) on the floor. Failure to adjust the door operator properly may cause SEVERE INJURY or DEATH.

10. ALWAYS KEEP DOOR PROPERLY BALANCED (see page 4). An improperly balanced door may NOT reverse when required and could result in SEVERE INJURY or DEATH.

11. ALL repairs to cables, spring assemblies and other hardware, ALL of which are under EXTREME tension, MUST be made by a trained door systems technician.

12. To avoid SERIOUS PERSONAL INJURY or DEATH from electrocution, disconnect ALL electric and battery power BEFORE performing ANY service or maintenance.

13. This door operator system is equipped with an unattended operation feature. The door could move unexpectedly. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.

14. SAVE THESE INSTRUCTIONS.

Using Your Door Operator

FEATURES

Your door operator is equipped with features to provide you with greater control over your door operation.

myQ

myQ allows you to control your door operator from your mobile device or computer from anywhere. myQ technology uses a 900Mhz signal to provide two way communication between the door operator and myQ enabled accessories. The door operator has an internal gateway that allows the door operator to communicate directly with a home Wi-Fi network and access your myQ account.

THE PROTECTOR SYSTEM (SAFETY REVERSING SENSORS)

When properly connected and aligned, the safety reversing sensors will detect an obstruction in the path of the infrared beam. If an obstruction breaks the infrared beam while the door is closing, the door will stop and reverse to full open position. If the door is fully open, and the safety reversing sensors are not installed, or are misaligned, the door will not close from a remote control. However, you can close the door if you hold the button on the door control or keyless entry until the door is fully closed. The safety reversing sensors do not affect the opening cycle. For more information see page 12.

ENERGY CONSERVATION

For energy efficiency the door operator will enter sleep mode when the door is fully closed. The sleep mode shuts the door operator down until activated. When the door operator enters sleep mode, the sensor LEDs will turn off and whenever the door operator is activated, the sensor LEDs will light. The door operator will not go into the sleep mode until the door operator has completed 5 cycles upon power up.

USING YOUR DOOR OPERATOR

The door operator can be activated through a wall-mounted door control, remote control, wireless keyless entry or myQ accessory. When the door is closed and the door operator is activated the door will open. If the door senses an obstruction or is interrupted while opening the door will stop. When the door is in any position other than closed and the door operator is activated the door will close. If the door operator senses an obstruction while closing, the door will reverse. However, you can close the door if you hold the button on the door control or keyless entry until the door is fully closed. The safety reversing sensors do not affect the opening cycle. The safety reversing sensor must be connected and aligned correctly before the door operator will move in the down direction.

BATTERY BACKUP (OPTIONAL)

The battery backup system allows access in and out of your building, even when the power is out. When the door operator is operating on battery power, the door operator will run slower, the Battery Status LED will glow solid orange, and a beep will sound approximately every 2 seconds.

MEMORY CAPACITY

SECURITY+ 2.0 ®ACCESSORIES	MEMORY CAPACITY.
Remote Controls	Up to 40
Keyless Entries	Up to 4
myQ Accessories	Up to 16

Programming

Remote Control (Not Provided)

Up to 40 Security+ 2.0 remote controls can be programmed to the door operator.

Older LiftMaster remote controls are NOT compatible, see page 30 for compatible accessories. To program additional accessories refer to the instructions provided with the accessory or visit LiftMaster.com. If your vehicle is equipped with a Homelink® , you may require an external adapter depending on the make, model, and year of your vehicle. Visit www.homelink.com for additional information.

To Erase the Memory

ERASE ALL REMOTE CONTROLS AND KEYLESS ENTRIES

1. Press and hold the LEARN button on door operator until the learn LED goes out (approximately 6 seconds). All remote control and keyless entry codes are now erased.

Reprogram any accessory you wish to use.

ERASE ALL DEVICES (INCLUDING myQ ENABLED ACCESSORIES)

1. Press and hold the LEARN button on door operator until the learn LED goes out (approximately 6 seconds).
2. Immediately press and hold the LEARN button again until the learn LED goes out. All codes are now erased.

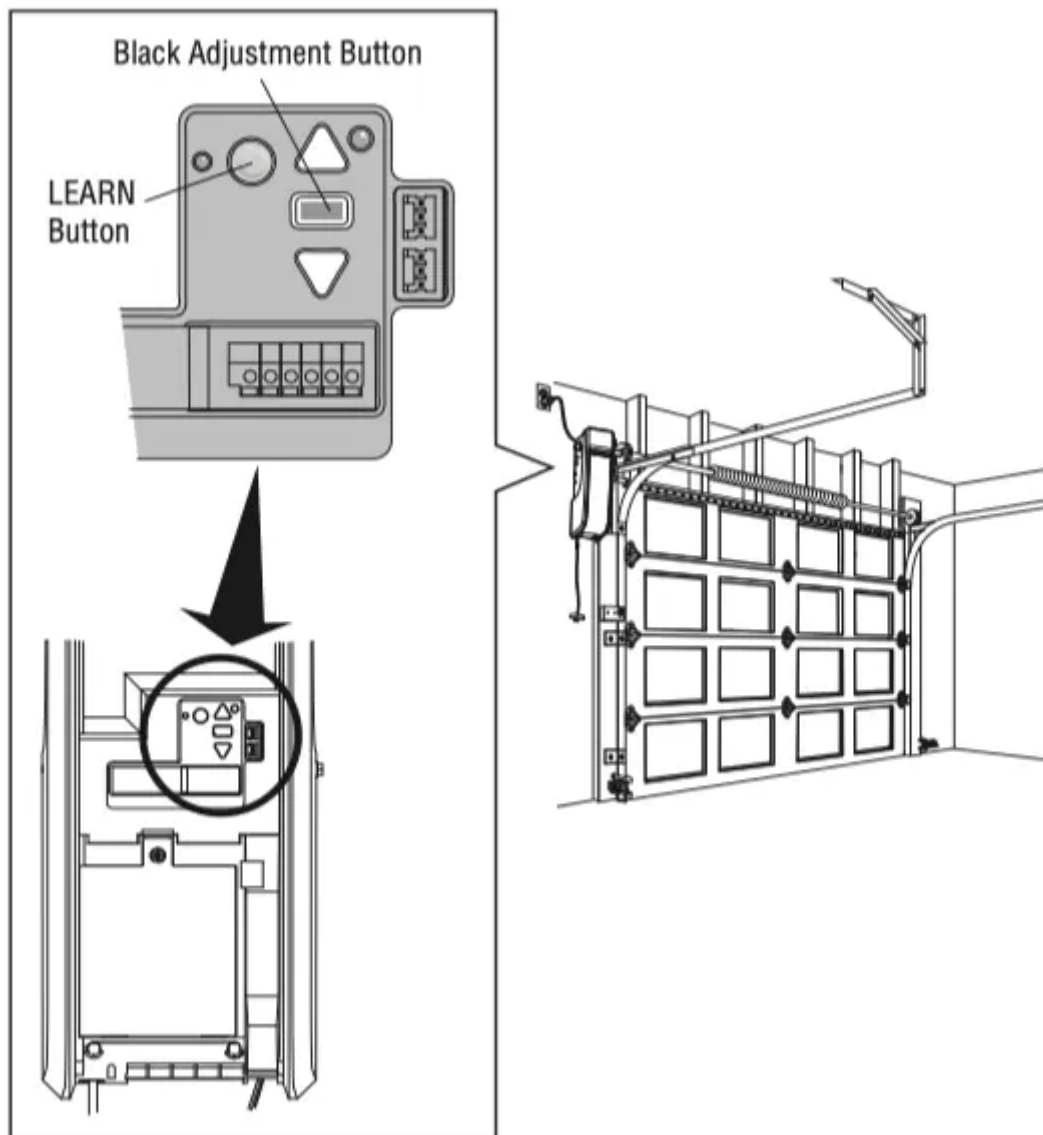
Reprogram any accessory you wish to use.

ERASE THE Wi-Fi NETWORK FROM THE DOOR OPERATOR

Press and hold the black adjustment button until 3 beeps are heard (approximately 6 seconds).

ERASE A myQ ACCOUNT

Go to myLiftMaster to delete your myQ account.



Maintenance

Care of Your Door Operator

MAINTENANCE SCHEDULE

Once a Month

- Manually operate door. If it is unbalanced or binding, call a trained door systems technician.
- Check to be sure door opens and closes fully. Adjust limits if necessary (see Adjustment Step 1).
- Repeat the safety reverse test. Make any necessary adjustments (see Adjustment Step 2).

Once a Year

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

NOTICE: This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device must be installed to ensure a minimum 20 cm (8 in.) distance is maintained between users/bystanders and device.

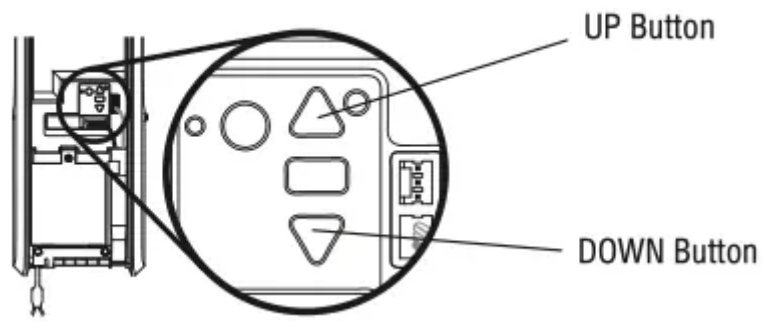
This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules and Industry Canada ICES standard. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Troubleshooting

Diagnostic Chart

Your door operator is programmed with self-diagnostic capabilities. The UP and DOWN arrows on the door operator flash the diagnostic codes.



DIAGNOSTIC CODE		DIAGNOSTIC CODE	SOLUTION
Up Arrow Flash(es)	Down Arrow Flash(es)		
1	1	The door operator will not close.	Safety reversing sensors are not installed, connected or wires may be cut. Inspect sensor wires for a disconnected or cut wire.
1	2	The door operator will not close.	There is a short or reversed wire for the safety reversing sensors. Inspect sensor wire at all staple points and connection points and replace wire or correct as needed.
1	3	The door control will not function.	The wires for the door control are shorted or the door control is faulty. Inspect sensor wire at all staple points and connection points and replace wire or correct as needed.
1	4	The door operator will not close.	Safety reversing sensors are misaligned or were momentarily obstructed. Realign both sensors to ensure both LEDs are steady and not flickering. Make sure nothing is hanging or mounted on the door that would interrupt the sensor's path while closing.
1	5	Door moves 6-8" (15-20 cm) stops or reverses.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Check wiring connections at travel module and at the logic board. Replace travel module if necessary.
		No movement, only a single click.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Replace logic board if necessary.
		Door operator hums for 1-2 seconds no movement.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. Replace motor if necessary.



1	6	Door coast after it has come to a complete stop.	Program travel to coasting position or have door balanced by a trained technician.
2	1-5	No movement or sound.	Replace logic board.
3	1	The door operator moves slightly, then stops	Activate the door operator again. If problem persists, replace logic board.
3	3	The battery status LED is constantly flashing green.	Battery backup charging circuit error, replace logic board.
3	5	The door operator will not close or door reverses during travel.	If two cable tension monitors were previously installed and one has been removed, unplug and plug in the operator three times to relearn the monitor to the operator.
4	1-4	Door is moving stops and or reverses	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock, correct as needed. If the door is binding or sticking contact a trained door systems technician. If door is not binding or sticking attempt to reprogram travel (refer to page 19).
4	5	Door operator runs approximately 6-8" (15-20 cm), stops and reverses.	Communication error to travel module. Check travel module connections, replace module if necessary.
4	6	The door operator will not close.	Safety reversing sensors are misaligned or were momentarily obstructed. Realign both sensors to ensure both LEDs are steady and not flickering. Make sure nothing is hanging or mounted on the door that would interrupt the sensor's path while closing.

Additional Troubleshooting

The door operator doesn't operate from the single button control station:

- Does the door operator have power? Plug a lamp into the outlet. If it doesn't, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)
- Have you disabled all door locks? Review installation instruction warnings on page 7.
- Are the wiring connections correct? Review Installation Step 5.
- Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction.
- The door spring may be broken. Have it replaced (see page 3 for reference).

The door operator operates from the single button control station, but not from a remote control:

- Reprogram the remote control and replace the battery if necessary. Repeat with all remote controls.

The door opens and closes by itself:

- Be sure that all remote control push buttons are off.
- Remove the bell wire from the single button control station terminals and operate from the remote only. If this solves the problem, the single button control station is faulty, or there is an intermittent short in the wire. Replace the control station.
- Erase the memory and reprogram all remote controls (refer to the instructions provided with the remote control or visit LiftMaster.com).

The door doesn't open completely:

- Disable any door locks.
- Is something obstructing the door? Is it out of balance, or are the springs broken? Remove the obstruction or repair the door.

The door opens but won't close:

- Check that cable tension monitor is correctly installed. If a second cable tension monitor has been removed, follow the instructions to relearn a single cable tension monitor (See Installation Step 4).
- The safety reversing sensor must be connected and aligned correctly before the door operator will move in the down direction. If you are able to close the door using constant pressure, verify the safety reversing sensors are properly installed, aligned and free of any obstructions (see page 17).

Repeat the safety reverse test after the adjustment is complete.

The door reverses for no apparent reason:

- Check that cable tension monitor is correctly installed. If a second cable tension monitor has been removed, follow the instructions to relearn a single cable tension monitor (See Installation Step 4).
- Is something obstructing the door? Pull the emergency release handle. Operate the door manually. If it is unbalanced or binding, call a trained door systems technician.
- Clear any ice or snow from the floor area where the door closes. Repeat safety reverse test after adjustments.

The door operator strains to operate door:

- The door may be out of balance or the springs may be broken. Close the door and use the emergency release handle to disconnect the door. 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 door operator and call a trained door systems technician.

The door operator motor hums briefly, then won't work:

- The door springs may be broken. See above.
- If the problem occurs on the first operation of the door operator, door may be locked. Disable any door locks.

The door operator won't operate due to power failure:

- Disable any door locks. Use the emergency release handle to disconnect the door. The door can be opened and closed manually.

When power is restored, pull manual release a second time.

- When in battery backup mode, battery power will last for 30 hours or up to 20 cycles over a 24 hour period.

Door loses limits:

- Collar not tightened securely. Tighten collar and reprogram limits (see Adjustment Step 1).
The door operator moves when the door is in operation:
- Some minor movement is normal for this product. If it is excessive the collar will wear prematurely.
- Check to make sure the torsion bar is not moving left/right excessively.
- Check to make sure the torsion bar is not visibly moving up and down as it rotates.
- Check that the door operator is mounted at a right angle to the Jackshaft. If not, move the position of the mounting bracket.

Automatic door lock connector will not fit the door operator plug:

Older model 24V door locks are incompatible. Use automatic door lock model 841LM, see Accessories page 30.

The door operator is beeping:

- Indicates unattended closure. The operator has been activated by the myQ App or the Garage and Gate Monitor.
- A solid orange LED with beep, sounding approximately every 2 seconds, indicates the door operator is operating on battery power.
- A flashing orange LED with beep, sounding every 30 seconds, indicates the battery is low.
- A solid red LED with beep, sounding every 30 seconds, indicates the 12V battery will no longer hold a charge and needs to be replaced.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

