Installation instructions

For Sectional Type Doors

IMPORTANT SAFETY NOTES

Please read the instructions carefully! This garage door operator is designed to provide safe and reliable service if installed and tested as described in these instructions. A garage door is the largest mechanical appliance in a residence. Care must be taken to prevent injury or death during installation and operation of the garage door and garage door operator.

This type of warning note is used to indicate possible electrical shock hazards that may cause serious injuries or death.

WARNING

This type of warning note is used to indicate possible mechanical hazards that may cause serious injuries or death.

This type of warning note is used to indicate possible electrical hazards that may cause serious injuries or death.

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING

TO REDUCE THE RISK OF SEVERE INJURY OR DEATH TO PERSONS, REVIEW THESE INSTALLATION SAFETY STEPS BEFORE PROCEEDING.

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Install only on a properly balanced sectional garage door. An improperly balanced door could result in severe injury or death. Repairs to cables, spring assemblies, and other hardware must be made by a qualified service person before installation of the garage door operator.
3. Disassemble all links and remove all ropes connected to the garage door before installing the operator. Ropes connected to a garage door can cause entanglement and death.
4. If possible, install door opener 7 feet or more above the floor with the manual release handle mounted 6 feet above the floor.
5. Do not connect the opener to the power source until instructed to do so.
6. Locate the wall station or push button within sight of the door at a minimum height of 5 feet so that small children cannot reach it. Locate the wall station or push button away from all moving parts of the door.
7. Install the User Safety Label on the walladjacent to the wall station or push button.
8. Upon completion of the installation, the door must reverse when it comes in contact with a 1-1/2" high object or.the door travel isn’t smooth, have a qualified garage door professional adjust or repair the door.
9. DISCONNECT THE ELECTRIC POWER FROM THE GARAGE DOOR Operator BEFORE MAKING ANY REPAIRS OR REMOVING THE COVER.
10. (or a 2x4 laid flat at the center of the door) on the floor and when the infrared safety beam is blocked.

1. Raise the operator head and set it on top of a spacer. The rail should be close to level.
2. Attach the header bracket to the wall.
3. Place the operator head on the garage floor with cardboard underneath it to protect the finish.
4. Attach the rail to the operator head using a crosspiece. Have a qualified garage door professional adjust or repair the door.

1. Place the header bracket on the center line drawn above the door with the bottom edge of the bracket on the line marked above the high rise point.
2. Use a pencil to mark the two bracket holes.
3. Drill two 5/16" pilot holes about 2" deep.
4. Use a 1/8" socket to fasten the bracket with two 5/16" x 2" lag screws.

1. Attach the rail to the header bracket using a crosspiece. Have a qualified garage door professional adjust or repair the door.

1. Place assembled operator on the empty carton on the floor with carton towards the door.
2. Install the header bracket and rail.
3. Secure the clevis pin with the hitch pin.

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3. Drill two 5/16" pilot holes about 2" deep.
4. Use a 1/8" socket to fasten the bracket with two 5/16" x 2" lag screws.

1. Pull the chain or belt-drive rail over the clevis pin. Use two bolts and two keps nuts (not supplied).
2. Attach the trolley’s release lever to the red release handle with the cord supplied so the handle is at least 6 feet from the floor. Cut off any excess cord.

1. Check the Door Balance
2. Attach the Rail to the Operator

1. From outside the garage, slowly open the door all the way, and then close it all the way. Notice if there is any binding, sticking or rubbering. The door should move smoothly in both directions.
2. Raise the garage door about halfway up. Carefully release the door and see if the door balances. It should stay in place. Close the door.

IMPORTANT: If the garage door is unbalanced or the door travel isn’t smooth, have a qualified garage door professional adjust or repair the door.

1. Place the header bracket on the center line drawn above the door with the bottom edge of the bracket on the line marked above the high rise point.
2. Use a pencil to mark the two bracket holes.
3. Drill two 5/16" pilot holes about 2" deep.
4. Use a 1/8" socket to fasten the bracket with two 5/16" x 2" lag screws.

1. Install the Header Bracket

1. Place assembled operator on the empty carton on the floor with carton towards the door.
2. Install the header bracket and rail.
3. Secure the clevis pin with the hitch pin.

1. Hang the Operator

Installation requirements vary with garage construction. Hanging brackets should be angled to provide rigid support. Hanging material is not provided. Angle iron and lag screws are recommended. DO NOT USE NAILS. Follow the typical operator hanging brackets method. Certain installations will require improvised methods.
1. Raise the operator head and set it on top of a step ladder (use extra spacers on top of ladder if it isn’t tall enough).
2. Carefully open the door to the full-up position. Lay a 2x4 across the top section of the door as a spacer. Adjust the operator height until the rail touches the spacer. The rail should be close to level.
3. Center the operator head and rail with the centerline mark on the top of the door.
4. For finished ceilings only: An angle iron cross piece between the two closest joists above the operator will be required. Mark mounting hole locations, drill pilot holes and attach the piece with two lag screws (not supplied).
5. Measure the distance from each of the operator’s hanging tabs to the ceiling joists or angle iron cross piece.
6. Cut two angle iron pieces to the required lengths for hanging brackets. Bend brackets if required.
   • For unfinished ceilings: Hold each bracket in place and punch a pencil hole at locations where they will be attached to the joists, drill pilot holes and attach the pieces with two lag screws (not supplied).
   • For finished ceilings with an angle iron cross piece: Attach the two hanging brackets to the cross piece with two bolts and two nuts (not supplied).
    7. Attach operator to hanging brackets. Insert the two 5/16-18 x 1" hex bolts and two 5/16-18 hex nuts (supplied) in the holes from the side of the operator. Tighten nuts with a 1/8" socket.
8. Tighten all hanging hardware.
9. Open and close the door manually. The door should clear the rail by at least 1".
10. Attach the trolley’s release lever to the red release handle with the cord supplied so the handle is at least 6 feet from the floor. Cut off any excess cord.

3. Locate the Header Bracket Position
4. Install the Header Bracket

2. From inside the garage, use a pencil to mark the vertical centerline of the door on the header wall and on the top panel of the door.
3. Examine the area above the center of the door on the door header wall for a header bracket mounting location.
4. Open the door to the high-rise point (the point where the top edge of the door is highest above the floor) and measure the distance to the floor.
5. Close the door and use a pencil to mark the header wall 1" above the measured high-rise point.

ATTACHING THE HEADER BRACKET TO THE CEILING

NOTE: On a finished ceiling, be sure there is a joint to fasten in under the sheetrock where the header bracket will be located (use a stud finder). If there is none, install a 2x4 cross piece between the two closest joists to fasten the header bracket onto.
1. Extend the center line drawn on the header wall along the ceiling.
2. Hold the bracket on the center line with the edge of the bracket no further than 6" from the header wall.
3. Use a pencil to mark the two bracket holes.
4. Drill two 5/16" pilot holes about 2" deep.
5. Use a 1/8" socket to fasten the bracket with two 5/16" x 2" lag screws.

1. Attach the rail to the header bracket using a crosspiece. Have a qualified garage door professional adjust or repair the door.

1. Place the header bracket on the center line drawn above the door with the bottom edge of the bracket on the line marked above the high-rise point.
2. Use a pencil to mark the two bracket holes.
3. Drill two 5/16" pilot holes about 2" deep.
4. Use a 1/8" socket to fasten the bracket with two 5/16" x 2" lag screws.

1. Attach the rail to the header bracket using a crosspiece. Have a qualified garage door professional adjust or repair the door.
1. Loosen the four housing screws and remove the housing.

2. Insert battery leads to battery.

3. Align the door bracket so that the holes in both arms overlap.

4. Secure the door bracket with two ¼-20 keps nuts (not supplied). Tighten with a 7/16” socket.

5. Install four low voltage Class 2 cable with equivalent or better wire. (The 24-pack Model HAE00009 wire and wire clip kit is recommended). Secure door bracket with two ¼-20 keps nuts (not supplied). Tighten with a 7/16” socket.

6. Pull white (neutral), black (hot) and green (ground) wires through the other hole on the door bracket. Secure the clevis pin with the hitch pin.

7. Insert the single hole end of the straight door arm into the slot in the trolley. Slide the 1/8” clevis pin through the hole and secure it with a hitch pin.

8. Flip the trolley release lever to disconnect the trolley.

9. Route the curved door arm upward to meet the straight door arm connected to the trolley. Align the two door arms so that the holes in both arms overlap.

10. Install the Battery Back-up

- • Never use an extension cord or change the plug in any way.
- • To prevent electrocution or fire, installation and wiring must be in compliance with local electrical and building codes.

11. Connect the Operator to Power Source

- • To prevent electrocution or fire, installation and wiring must be in compliance with local electrical and building codes.
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12. Use a smart phone, connect it to your Wi-Fi network, and take a photo of the Wi-Fi signal to determine whether or not the Smart Control Wall Station will connect to your Wi-Fi network.

13. If it receives strong signal from your home’s Wi-Fi router, go to step 14. If not, connect to your Wi-Fi network.

14. If it does not connect, contact a licensed electrical contractor to install an outlet.

Card and Outlet Connection

The operator should be connected to a grounded receptacle on the ceiling or near the operator head. If none is available, the Smart Control Wall Station must be grounded at the outlet. Use 12 Volts, 250V, 2-wire/ground electrical wiring, and a grounded three-wire outlet.

Permanent Wiring

- • To prevent electrocution or fire, installation and wiring must be in compliance with local electrical and building codes.
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15. Connect the conduit to the wall box. Secure wiring with staples or tacks to help the label remain in place over time.

16. IMPORTANT! DO NOT PLUG THE OPERATOR AT ANY TIME! Move installation to a more comfortable location.

17. Install the Door Bracket and Door Arm

18. Fully close the door. Hold the door bracket against the side of the door, then flip it over to the center of the door, then along the top of the rail (or ceiling), and back to the operator. Cut the wires back to length, and then the wires from the door arm needed to reach the door operator terminals. Trim back 1/8” of insulation from the ends of the wires.

19. For non-prewired installations, pull all the wires to the wall and ceiling with insulated staples (not supplied). Staples must be used on all ends to prevent shorts. Secure the wire to the wall and ceiling with insulated staples (not supplied).

20. Attach the twisted connection to the operator’s BEAM terminal. Connect the other twisted connection to the operator’s COMMON terminal.

21. Secure the wires away from all moving parts with a strain relief bushing.

22. Add a neutral ground wire to the wall box.

23. Use wire nuts (not supplied) to connect the wires to the matching color terminals inside the operator head.

24. Secure the wires away from all moving parts with a zip-tie as shown in the figure.

25. Replace the operator cover and the four side screws.

26. Connect the conduit wires to the power source at junction box.

27. Connect the conduit wires to the power source. Secure the wires away from all moving parts with a strain relief bushing.

28. For permanent wiring only!

29. For permanent wiring only!

30. For permanent wiring only!

31. For permanent wiring only!
12 Aligning the Infrared Safety Beam

The safety beam has two components, a sender and a receiver. The sender produces a narrow infrared beam that travels across the bottom of the door opening to the infrared receiver. If an object blocks the infrared safety beam, it will be caused by mis-alignment or something blocking the beam. Adjust the safety beam sender and receiver while watching the receiver’s red light (out of the beam while aligning it). When the red light stays on, rotate the sender towards the ceiling and stop when the red light on the receiver begins to flicker. Rotate the sender back towards a horizontal position with the floor and stop as soon as the red light on the receiver (solid). The beam is now properly aligned.

13 Remote Controls

The operator is supplied with a three-button remote control (the second and third buttons can be used to control additional operators). Additional single and multi-button remote controls can be purchased. The short wire to the receiver is free of obstructions and adjusted properly.

14 Adjusting the Open and Close Limits

The limit settings control how far the door will open and close. Set the limits so the door opens just short of any door stops, and closes at the floor level. But of the box, the operator is preset on its close limit and the open limit is preset for a typical 7-foot high door.

Use the wall station or a transmitter to test operate the door. If required, use the following steps to adjust the limits.

Adjusting the Open Limit
1. Press and hold the UP button and the LEARN button.
2. Release both buttons. When the light blinks and the alarm beeps 2 times, the limit is ready to be set.
3. Press and hold the UP button as needed to move the door and release the UP button when the desired position is reached.
4. If necessary, use the UP or DOWN buttons to jog the door at slow speed to fine-tune the open limit position.
5. Press and release the LEARN button. The light blinks and the alarm beeps 2 times to confirm setting.

Adjusting the Close Limit
1. Press and hold the DOWN button and LEARN button for approximately 3 seconds.
2. Release both buttons. When the light blinks and the alarm beeps 2 times, the limit is ready to be set.
3. Press and hold the DOWN button as needed to move the door and release the DOWN button when the desired position is reached.
4. If necessary, use the UP and DOWN buttons to jog the door at slow speed to fine-tune the open limit position.
5. Press and release the LEARN button. The light blinks and the alarm beeps 2 times to confirm setting.

NOTE: If the operator is fixed reset per Section 19, both the open and close limits must be adjusted and the automatic door force setup must be completed for proper operation.

15 Automatic Door Force Setup

The operator automatically measures the door force throughout the entire travel of the door each time the operator cycles to the reverse position. The following steps are all that’s required to setup the safety reversal system.

1. Press both the UP and DOWN buttons for three seconds. The red and green indicators and operator’s light will come on an obstacle before the operator reacts to the obstruction. As door hardware conditions change over time with weather, the calculation of the maximum door force setting for the current cycle (the cycle time and any door obstructions) will return to normal operation at its previous force factor setting.

2. Use the wall station or a transmitter to test operate the door. Do not cycle the operator full travel without the door connected. The automatic door force setting will adjust to the unloaded condition and may trip the safety reversal system when the door is connected.

3. Do not cycle the operator full travel without the door connected. The automatic door force setting will adjust to the unloaded condition and may trip the safety reversal system when the door is connected.

4. If necessary, use the UP and DOWN buttons to jog the door at slow speed to fine-tune the open limit position.

5. Press and release the LEARN button. The light blinks and the alarm beeps 2 times to confirm setting.

CAUTION: Always perform the Safety Reversal System Test monthly. Any components to the operator must perform the SAFETY REVERSAL SYSTEM TEST NIGHTLY.

16 Safety Reversal System Test

The operator determines that there is an obstruction if a higher than expected amount of force is detected during the door cycle. If the calculated maximum force setting is exceeded during the current door cycle, the operator reacts to the obstruction. As door hardware conditions change over time with weather, the calculation of the maximum door force setting for the current cycle will return to normal operation at its previous force factor setting.

To operate the door through four full open and close cycles.

17 Adjusting the Force Factor (Installation Option, Normally Not Used)

The operator uses the peak force measured during each of the last four complete cycles plus a “force factor” to calculate the maximum allowed force setting for the current door cycle. If the calculated maximum force setting is exceeded during the current door cycle, the operator reacts to the obstruction. As door hardware conditions change over time with weather, the calculation of the maximum door force setting for the current cycle will return to normal operation at its previous force factor setting.

As an installation option, the operator’s “force factor” can be adjusted to change the amount of pressure exerted on an obstacle before the operator reacts to the obstruction. Press both the UP and DOWN buttons for three seconds. The red and green indicators and operator’s light will flash twice.

2. Use the UP or DOWN buttons to set the force factor. Pressing the UP button increases the force factor, pressing the DOWN button decreases the force factor.

3. After selecting the force factor, press the LEARN button to store the setting and exit setup. The red and green indicators and the operator’s light will flash twice. (If the force factor is not set within one minute, the operator will return to normal operation at its previous force factor setting.)

4. After changing the force factor setting, perform the Safety System Reversal Test.

WARNING: Always perform the Safety Reversal System Test monthly. Any components to the operator must perform the SAFETY REVERSAL SYSTEM TEST NIGHTLY.
A MOVING GARAGE DOOR CAN CAUSE INJURY OR DEATH! TO REDUCE THE RISK OF DEATH OR SEVERE INJURY:

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. NEVER LET CHILDREN OPERATE, OR PLAY WITH DOOR CONTROLS! KEEP REMOTE CONTROL AWAY FROM CHILDREN!
3. Always keep moving door in sight and away from people and objects until it is completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
4. NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.

5. Test door operator monthly. The garage door MUST reverse on contact with a 1-1/2 inch object (or a 2x4 board laid flat) at the center of the door on the floor if adjusting either the force or the limit of travel, or lest the door operator failure. Adjust the operator properly may cause severe injury or death.

6. If possible, use the red emergency release handle only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may cause the door to fall rapidly, causing injury or death.

7. KEEP GARAGE DOORS PROPERLY BALANCED. (See Garage Door Operator Maintenance) An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assembly and hardware.

8. This operator system is equipped with an unattended operation feature. The door could move unexpectedly. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR. Only use the Smart Wall control station for unattended operation when installed with a sectional residential overhead door.

SAVE THESE INSTRUCTIONS.

Opening the Door

1. With the door in view, press the wall station's UP/ DOWN ARROW button or the button assigned to the operator on the remote control, or enter a valid access code and press START/STOP on a remote keypad.

2. If the operator is activated, the operator's light will turn on and the door will begin to open.

3. The door will open until the open limit is reached. If an obstacle is encountered (operator's light flashes four times and the alarm beeps four times) while the door is opening, the door will stop.

4. The operator's light will stay on for about five minutes after the door stops.

Closing the Door

1. With the door in view, press the wall station's UP/ DOWN ARROW button or the button assigned to the operator on the remote control, or enter a valid access code and press START/STOP on a remote keypad.

2. When the operator is activated, the operator's light will turn on and the door will begin to close.

3. The door will close until the close limit is reached. If an obstacle is encountered (operator's light flashes four times), or the safety beam is interrupted (operator's light flashes three times) during closing, the door will stop, then re-open.

4. The operator's light will stay on for about five minutes after the door stops.

Stopping the Door Mid-travel

The door can be stopped immediately at any time by pressing the wall station's STOP button. Press the remote control's pushbutton, or press the START/ STOP button on a remote keypad if the remote keypad was used to start the door.

The next time the operator is activated, the door will move in the opposite direction.

Vacation Lock for Additional Security

1. Flip the large button up to access the wall station's programming buttons. The LOCK button will prevent remote controls from opening the door after the door is completely closed. The blue LED on the wall station will flash while the Vacation Lock is active. The remote can close the door, but not open it. The door can still be opened by pressing the wall station's UP/ DOWN ARROW pushbutton.

NOTE: To signal that the vacation switch is locked, the operator's light and red light will flash five times if a remote is activated in an open attempt to open the door.

2. Press the wall station's LOCK button again to return the operator to normal operation.

Controlling the Operator's Light

1. The operator's light can be lit by pushing the wall station's UP/ DOWN ARROW button. The light will remain on until the light button is pressed again or the operator is disconnected.

2. If the operator's light is on, push the wall station's LIGHT button to turn the operator's light off.

Disconecting the Door from the Operator

1. In any position (properly closed), carefully hold the red release handle. USE CAUTION IF THE DOOR IS OPEN, THE DOOR MAY DROP.

2. The disconnected door can be opened or closed as necessary.

3. To re-connect the operator, flip the release lever up. Raise or lower the door manually until the operator reconnects.

Troubleshooting – Operator

1. Fault/Prob. Description

   Remote control is not being recognized by operator. Make sure remote control is programmed. Check wall station programming. Correct for radio interference or reprogram remote.

   Door won't operate
   Operate from wall station, from wall station
   Door is stuck on an object
   Flash twice.

   Remote was not set up properly
   Press and hold DOWN ARROW button for 10 seconds. The red and green indicators and the operator's light will flash twice.

   Remote was activated while in vacation mode
   Activate vacation mode switch on wall station to exit vacation mode.

   Remote was no longer receiving a signal
   Check for obstructions or damage to garage door.

   Batteries were removed from remote control
   Replace batteries immediately.

   Safety sensor not receiving a signal
   Check for obstruction or damage to garage door.

2. Cause

   Check for the operator is in the correct position on the receiver.

   Check for obstruction to the sensor

   Check for damage to garage door or operator.

   Check for the operator is in the correct position on the receiver.

   Check for damage to garage door or operator.

3. Solution

   Check for radio interference or reprogram remote.

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   Check for radio interference or reprogram remote.

Troubleshooting – Battery

Number of Years

Fault/Prob. Description

2

Lack of battery

Battery is low

Solution

Check that AC power is connected and battery is charged. Check if charger is working properly.

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FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and radiates 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.

LIMITED WARRANTY

GTO warrants all parts of this product, excluding batteries, in normal household use for the periods of time indicated. Batteries are warranted for 90 days.

1 year

Garage Door Operator Parts

1 year

Garage Door Operator Motor

10 years

Garage Door Operator Case

10 years

Garage Door Operator Transmitter

10 years

GTO will, at its option, repair or replace this product if it is defective in materials or workmanship. This warranty is non-transferable. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

To Obtain Service

For warranty service and shipping instructions contact制造商 at the telephone number shown below. In order to protect your warranty, save your proof of purchase and record the serial number of your product in a safe place. This information will be necessary if you need warranty service. The warranty does not cover normal wear and tear, or damage caused by improper maintenance or misuser. Products repaired or replaced under warranty are warranted only for the remaining portion of the original warranty period. Products repaired under warranty are warranted only for the remaining portion of the original warranty period. Products repaired under warranty are warranted only for the remaining portion of the original warranty period. Products repaired under warranty are warranted only for the remaining portion of the original warranty period.

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