

# INSTALLATION

- Twist the gray striped wires from both sensors together and insert them into the right door sensor terminal marked with G.
- Twist the white wires from both sensors together and insert them into the left terminal marked with W.
- For alignment instructions, see **Aligning the Safety Sensors** later in this section.

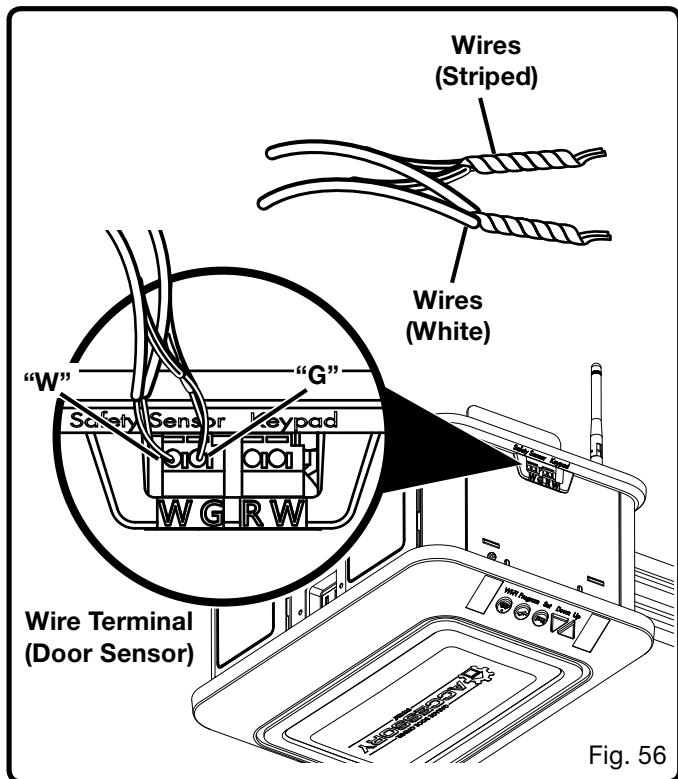


Fig. 56

## WARNING:

Make sure the keypad is mounted high enough to prevent unauthorized activation of the garage door opener. It should be placed at least five feet above the floor so that it is inaccessible to children. Unauthorized activation of the opener can result in death or serious personal injury.

## WARNING:

Do not start or stop the garage door opener if there is a person or object in the path of the door, the door has not been properly balanced, or if you cannot see the doorway. Failure to follow these instructions can result in death or serious personal injury.

## WARNING:

To avoid the risk of death, electric shock, or serious personal injury ensure that the garage door opener is unplugged before wiring the keypad.

## WARNING:

Connect the keypad using low voltage wires provided only. Using other wires may cause signal interference or malfunction and can result in electric shock or serious personal injury.

- Find desired location indoors and in sight of the garage door.

**NOTE:** The keypad should be at least five feet above the floor so it is inaccessible to children.

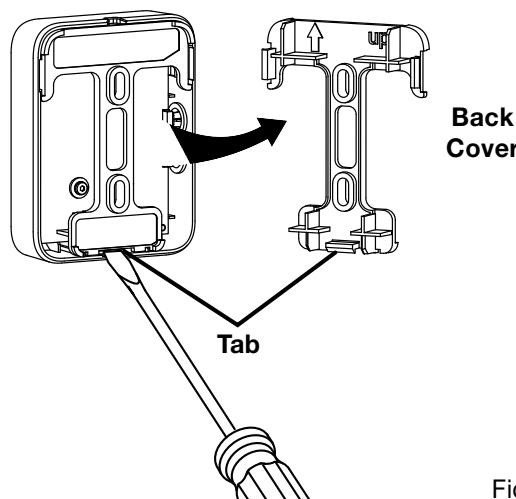


Fig. 57

## WARNING:

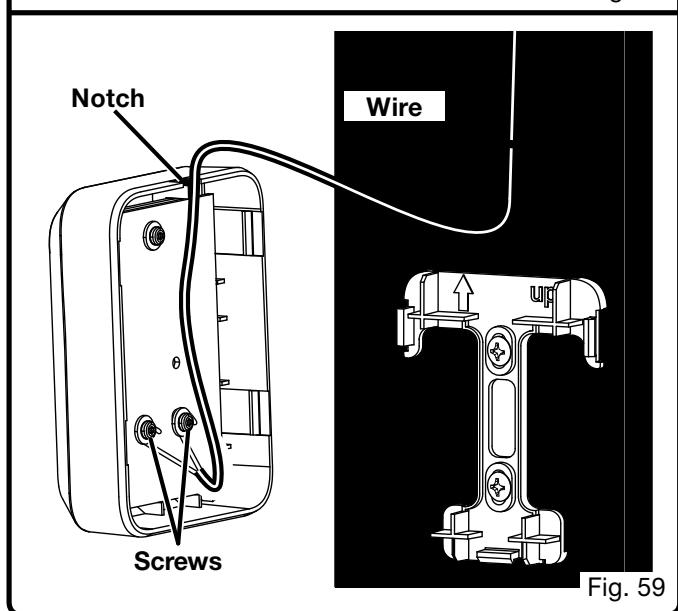
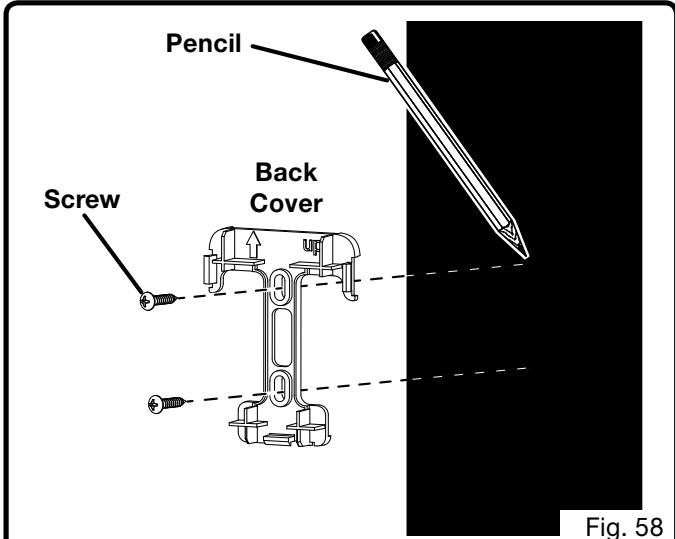
Do not use garage door opener if keypads or remotes do not start and stop the motor. An opener that cannot be controlled with a keypad or remote is dangerous, can result in death or serious personal injury, and must be repaired.

# INSTALLATION

- Insert a flat head screwdriver into the tabs on the indoor keypad and remove the back cover.
- Hold the back cover against the wall. Use a pencil and a level to mark screw hole placement.
- Mount the back cover to the wall using screws. Install screws using Phillips screwdriver.

**NOTE:** Use screws and drywall anchors when installing the keypad into drywall.

- Fit the wires included with the indoor keypad into the notch on the keypad.
- Connect the keypad to the back cover. Be careful not to damage the wires.
- Route the wires from the keypad to the keypad wire terminals. Attach the wires to the wall and ceiling using the insulated staples.
- Insert the red striped wire from the keypad into the left keypad terminal marked with R.

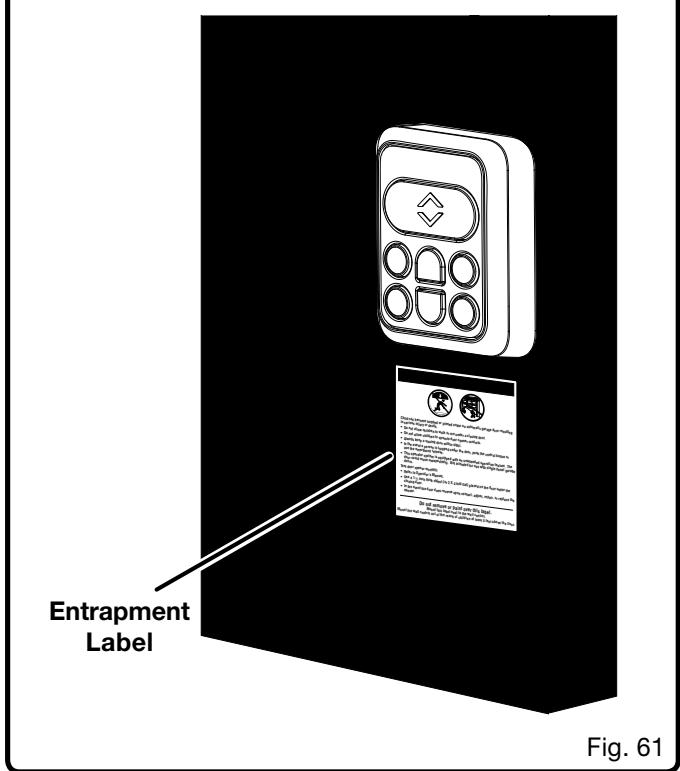
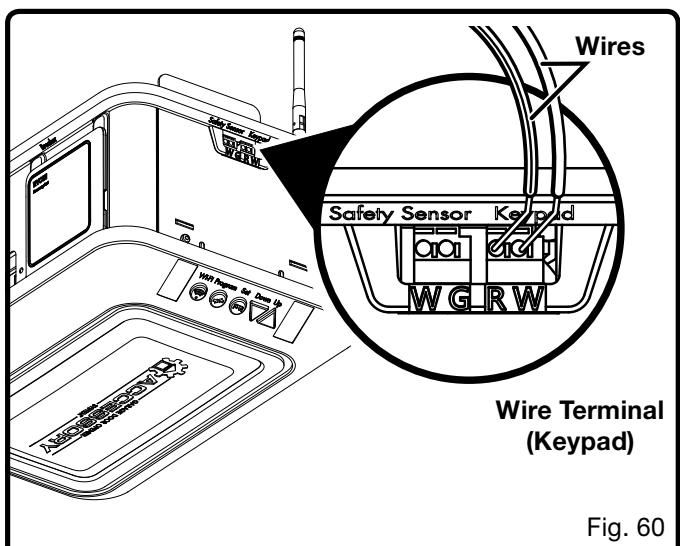


- Insert the white wire into the right terminal marked with W.

## WARNING:

The entrapment warning label contains important safety information. Install entrapment warning label next to the indoor keypad in a prominent location. Use insulated staples or other mechanical means if the label will not adhere to the wall.

- For details about using the indoor keypad, see **Using the Indoor Keypad** in the *Operations* section.



# INSTALLATION

## ALIGNING THE SAFETY SENSORS

See Figures 62 - 63.

### ⚠️ WARNING:

**DO NOT** operate the garage door opener unless the safety sensors are installed and working correctly. Failure to properly install and ensure that the safety sensors are working correctly can result in death or serious personal injury.

### ⚠️ WARNING:

The effectiveness of the safety sensors included in this system directly relates to the placement and installation of the sensors. Incorrect placement or installation could prevent the sensors from working as intended and result in death or serious personal injury.

### NOTICE:

This task requires the garage door opener to be connected to a power source.

- Install and wire the safety sensors as described earlier in the manual.
- Connect the garage door opener to an AC power supply.  
**NOTE:** Make sure the power supply is normal household voltage, 120 volts, AC only, 60 Hz.
- If wired correctly, the LED lights on both sensors should shine continuously. If one or both LEDs do not come on, unplug the garage door opener and ensure that the sensors are wired correctly. If problem persists, refer to the **Safety Sensor Diagnostic Feedback** chart later in the manual.
- If the LED lights on both sensors shine continuously, then the sensors are aligned and no adjustments are needed.
- If the red LED light is ON and the green LED light is flickering, then something may be interfering with the receiving sensor. The most common cause of interference is direct sunlight. If necessary, remove the fasteners securing the sensor and move it away from the garage door opening to avoid sunlight.
- If the red LED light is ON and the green LED light is off, then the sensors may need to be aligned.

### NOTICE:

The garage door will not close unless the safety sensors are installed, wired, and aligned correctly.

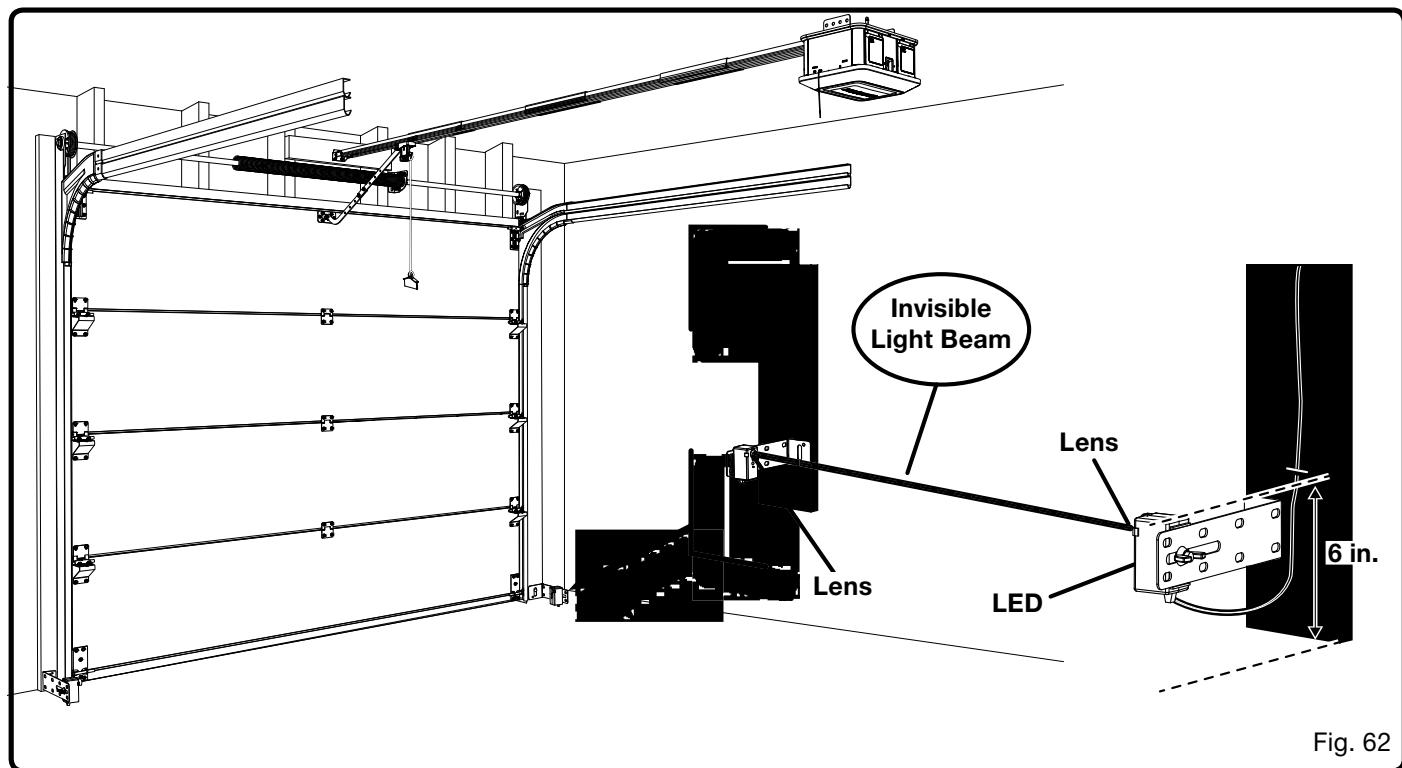


Fig. 62

# INSTALLATION

- **To align the safety sensors:** loosen, but do not remove, the fasteners securing the sensors in place and adjust the position of the sensors until the lens on the transmitter and receiver are directly facing one another.
- After the sensors have been aligned, retighten fasteners.
- When the sensor lenses are in the correct position, the invisible light beam emitted by the transmitter will be captured by the receiver and the LEDs will shine continuously.

**NOTE:** If an object crosses the path of the beam, an open garage door will not close and a closing garage door should stop and reverse to the fully open position.

## Aligning the safety sensors for multiple doors:

When multiple garage door openers are installed, extra care must be taken to prevent misalignment and crossed signals between each set of sensors.

- Where possible, install transmitting safety sensors on an adjacent surface facing away from each other and toward the receivers.
- Connect the garage door opener to an AC power supply. **NOTE:** Make sure the power supply is normal household voltage, 120 volts, AC only, 60 Hz.
- Align each set of sensors as described earlier.

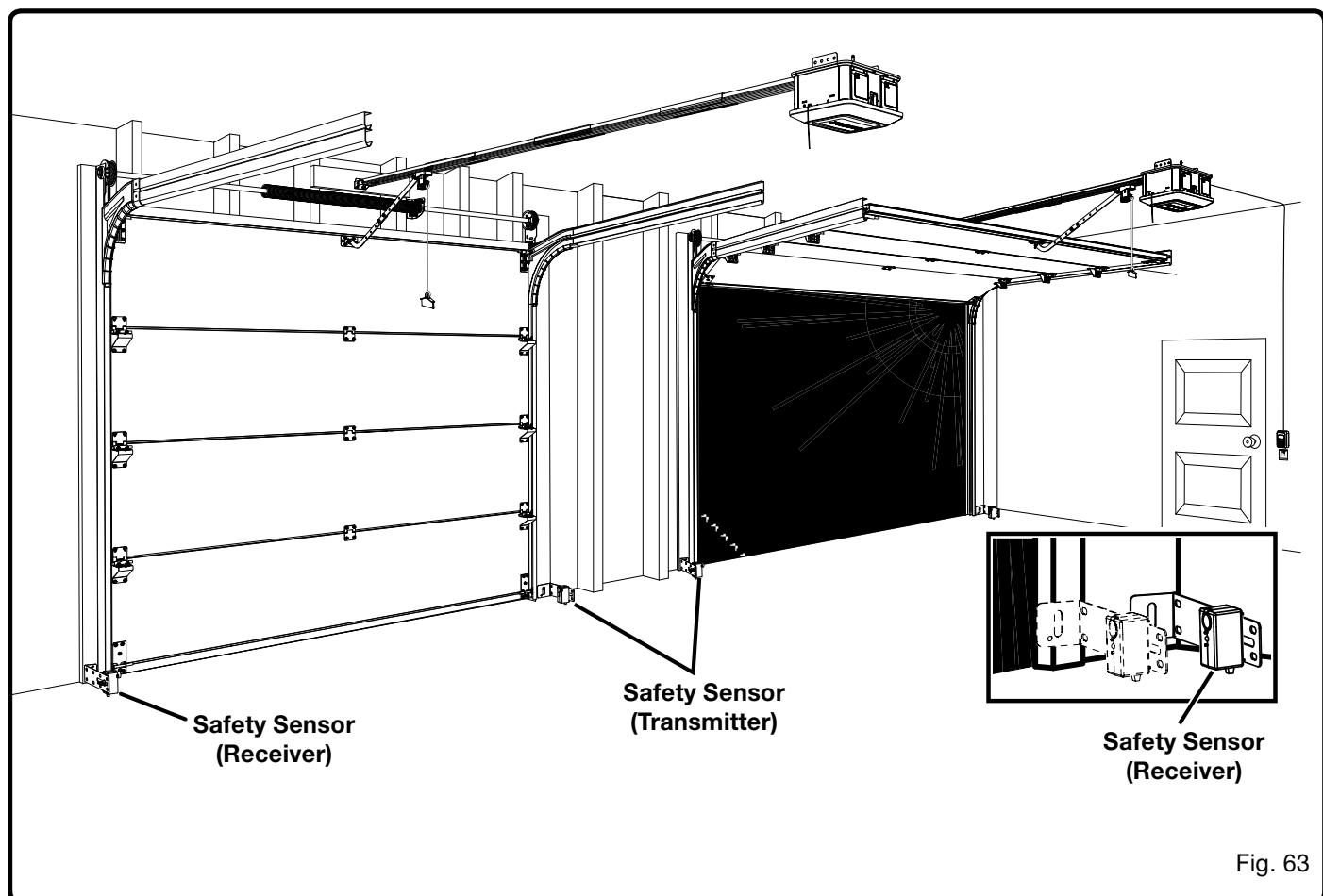


Fig. 63

# INSTALLATION

## SAFETY SENSOR DIAGNOSTIC FEEDBACK

LED FUNCTIONS			
RED LED (TRANSMITTER)	GREEN LED (RECEIVER)	PROBLEM	SOLUTION
ON	ON	No problem indicated	No action required
OFF	OFF	Power head is unplugged Wires from power head may be damaged Wires not connected Wires connected to the wrong terminal One or both sensors are defective	Connect to power supply Replace damaged or broken wires Connect wires to power head Connect wires to the correct terminal Contact customer service for assistance
OFF	ON	One or both sensors are defective	Contact customer service for assistance
ON	OFF	The safety sensors are out of alignment The safety sensors are obstructed One or both sensors are defective Safety sensor (transmitter) is not sending beam	Align the safety sensors Remove all objects between the safety sensors Contact customer service for assistance Contact customer service for assistance
ON	FLICKERING	Safety sensor (receiver) is in direct sunlight One or both sensors are defective	Change the position of the sensor (receiver) or reverse the positions of both sensors (See figure 63) Contact customer service for assistance

# INSTALLATION

## SETTING THE DOOR TRAVEL LIMITS

See Figures 64 - 71.

### **DANGER:**

Ensure that the safety sensors are installed and working properly. Without the proper safety devices in place, a closing garage door could kill or seriously injure someone in its path.

### **NOTICE:**

This task requires the garage door opener to be connected to a power source.

The console on your garage door opener makes it easy to set the open and close positions of your door. The opener will automatically sense the weight of your door and provide the force required to open and close it.

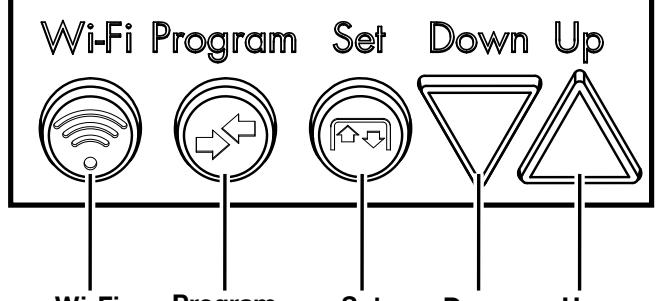
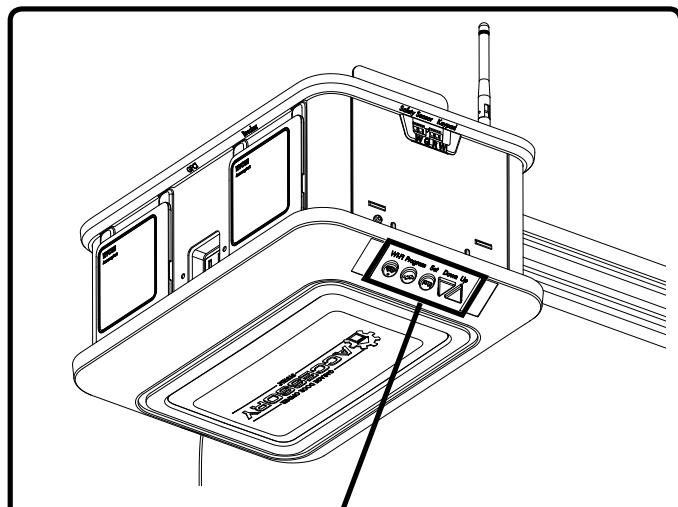


Fig. 64

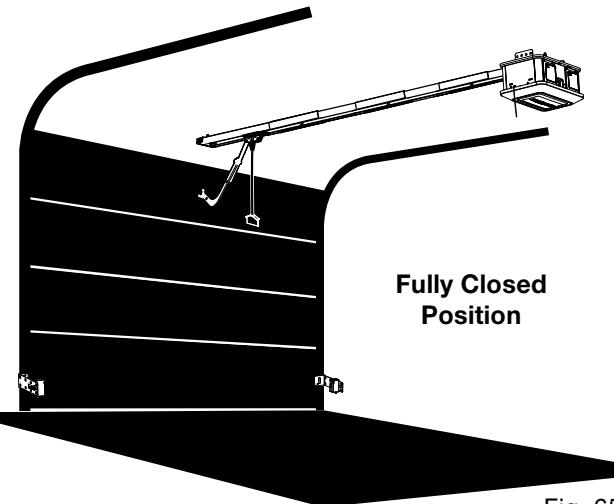


Fig. 65

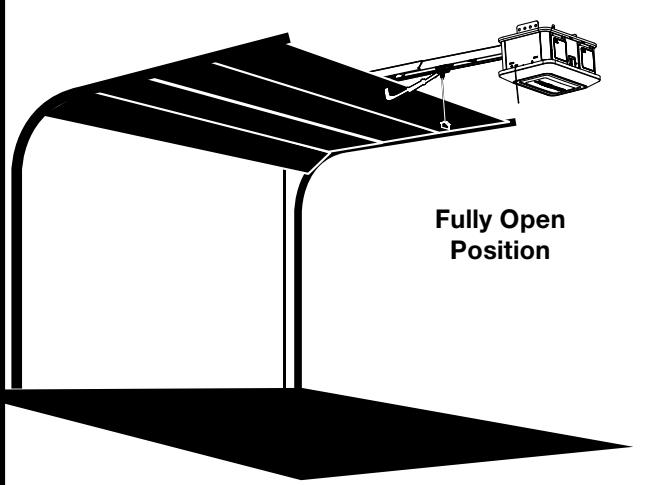


Fig. 66

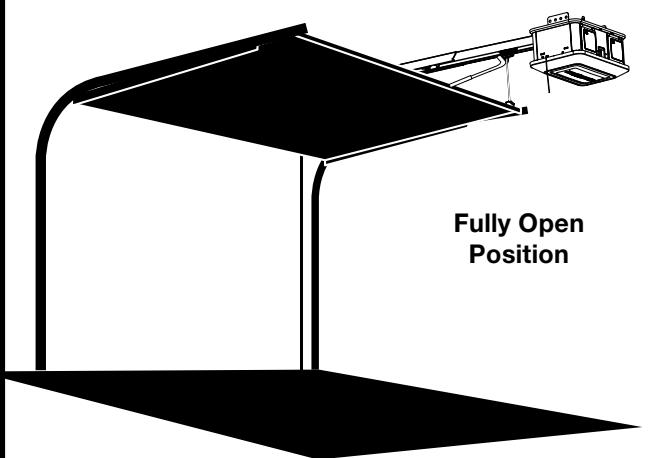


Fig. 67

# INSTALLATION

When a garage door is fully closed, there shouldn't be any space between the door and the garage floor. When a door is fully open, it should provide enough clearance for vehicles to travel safely underneath it. Use caution when setting the open position for single-panel garage doors. If a single-panel door is opened so far that it begins to slant backwards, excessive bouncing and jerking may occur as the door moves, see figure 68.

## NOTICE:

Do not open or close the garage door using the indoor keypad or remotes until the travel limits have been properly set. Doing so could cause severe damage to the garage door or the garage door opener.

- Connect the garage door opener to an AC power supply.

**NOTE:** Make sure the power supply is normal household voltage, 120 volts, AC only, 60 Hz.

### Before setting the travel limit:

- Pull the emergency release rope down and manually open the garage door until the outer trolley engages the inner trolley.

## WARNING:

Confirm that the inner trolley is in the orientation shown in figure 69. An incorrectly installed inner trolley could result in the garage door opener operating in the opposite direction from its intended movement and result in death or serious personal injury from the moving garage door.

Once you begin setting the travel limits, you have two minutes to complete each step. If a step is not completed within two minutes, travel limit information for the open and closed position will be erased.

### To set the travel limit for the open position:

- Press and hold the **UP** button for three seconds. After you release the button, it will begin blinking and continue blinking until the travel limit has been set.
- Press and hold the **UP** button to move the garage door to the open position.
- For fine adjustments, press and release the **UP** or **DOWN** buttons.
- Once the door is in the desired open position, press the **SET** (◀) button to store the travel limit. Once the travel limit is stored, the **UP** button will stop blinking and shine continuously.

**NOTE:** If the safety sensors are obstructed during this process, travel limit information for the open and closed position will be erased.

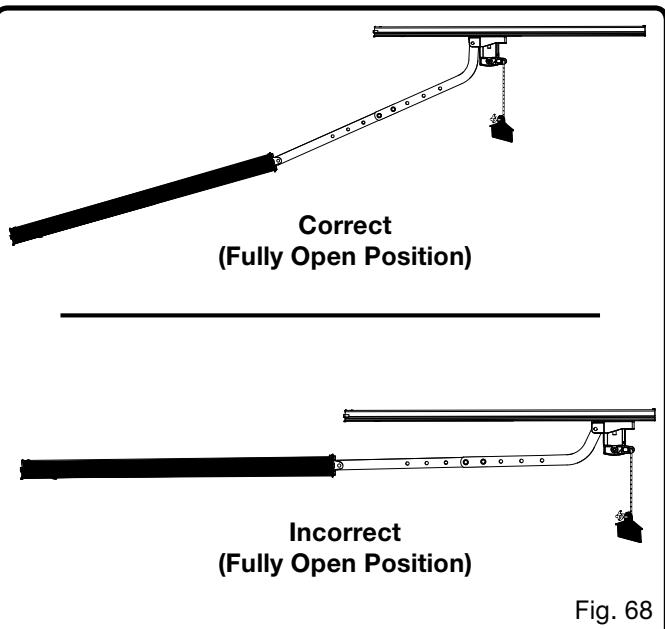


Fig. 68

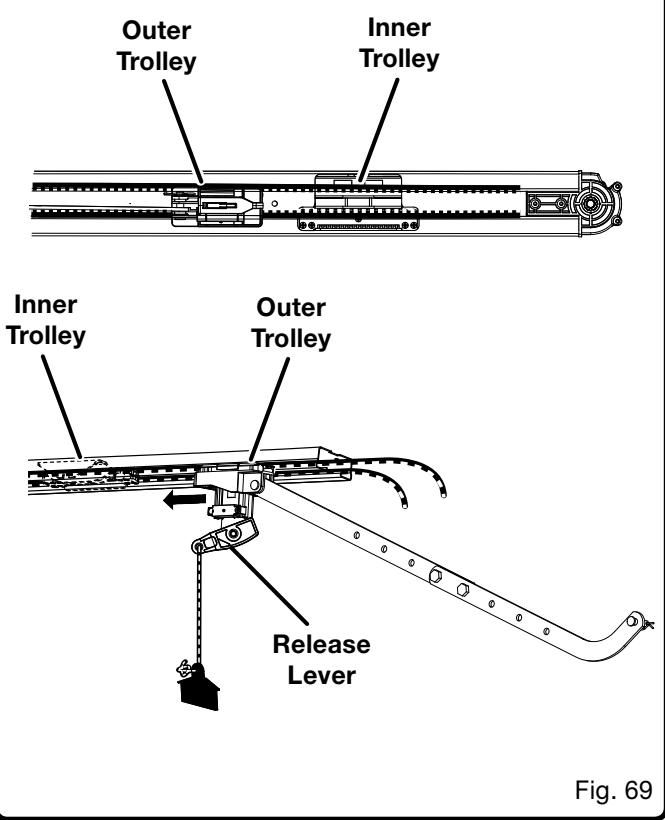


Fig. 69

# INSTALLATION

## WARNING:

If you are not able to first set the travel limit for the open position, do not skip ahead and attempt to set the travel limit for the closed position. If the travel limits do not set and the door does not move in the intended direction as described in this section of the Operator's Manual, do not use the garage door opener and contact customer service or a qualified service person for assistance. The use of a garage door opener that is not operating the garage door in the correct direction can kill or seriously injure someone in the moving door's path.

### To set the travel limit for the closed position:

- Press and hold the **DOWN** button for three seconds. After you release the button, it will begin blinking and continue blinking until the travel limit has been set.
- Press and hold the **DOWN** button to move the garage door to the closed position.
- For fine adjustments, press and release the **UP** or **DOWN** buttons.
- Once the door is in the desired closed position, press the **SET** (¶) button to program the travel limit. Once the travel limit is set, the **DOWN** button will stop blinking and shine continuously.

**NOTE:** If the safety sensors are obstructed during this process, travel limit information for the open and closed position will be erased.

### To test the travel limits:

**NOTE:** The garage door opener will not respond to the remotes or keypads until the travel limits have been tested.

- Press and release the **UP** button and ensure that the door moves to the programmed open position. The button will blink as the door moves, then shine continuously once the door is in the open position.
- Press and release the **DOWN** button to ensure that the door moves to the programmed down position. The button will blink as the door moves, then shine continuously once the door is in the down position.

**NOTE:** After testing is complete, the light for both the **UP** and **DOWN** buttons will turn off.

- If the travel limits were set incorrectly, they can be cleared by pressing and holding the **UP** button for three seconds.

**If a buzzer sounds while you are setting or testing the travel limits, the garage door opener has detected a problem. Travel limit information for the open and closed position will be erased and cannot be reset until the problem is resolved. For details, refer to the *Troubleshooting* section later in the manual.**

Wi-Fi Program Set Down Up

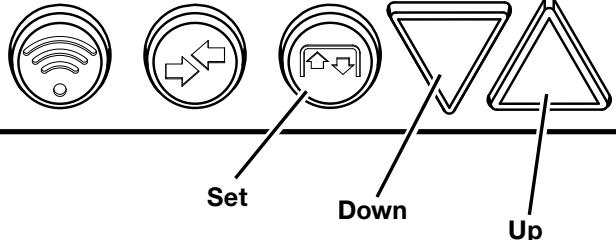


Fig. 70

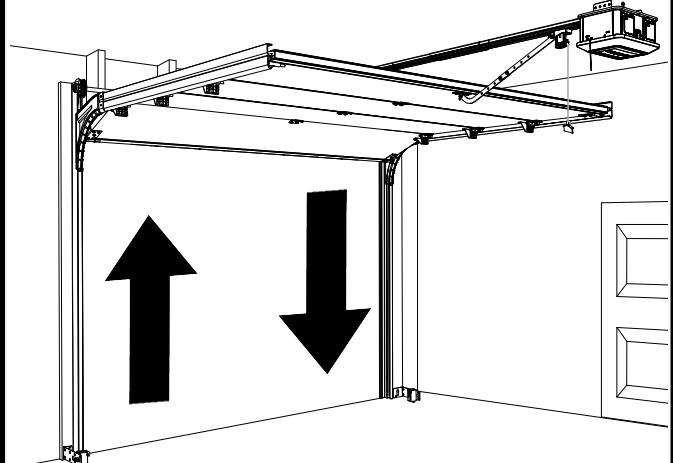


Fig. 71

## TESTING THE AUTOMATIC REVERSAL SYSTEM

See Figure 72.

## DANGER:

Test the automatic reversal system after installation, prior to first use, every month, and after any adjustments are made to the garage door travel limits. If the door contacts an object higher than 1-1/2 in. off the garage floor (approx. the size of a 2x4 laid flat), it should stop and reverse to the fully open position. If the automatic reversal system does not function properly, a closing garage door could kill or seriously injure someone in its path.

# INSTALLATION

## WARNING:

**DO NOT** operate the garage door opener unless the automatic reversal system is working correctly. Following this rule will reduce the risk of death or serious personal injury.

## NOTICE:

This task requires the garage door opener to be connected to a power source.

- Install and wire the indoor keypad as described earlier in the *Installation* section.
- Connect the garage door opener to an AC power supply.

**NOTE:** Make sure the power supply is normal household voltage, 120 volts, AC only, 60 Hz.

- Press and release the **UP/DOWN** button on the indoor keypad to raise the garage door.
- Place a 1-1/2 in. board (approx. the size of a 2x4 laid flat) on the garage floor beneath the door.
- Press and release the **UP/DOWN** button on the indoor keypad to lower the garage door. When the door strikes the board, it should reverse direction immediately.
- If the garage door reverses direction after contacting the board, the reversal system is working properly and no adjustments are needed.
- If the garage door stops before striking the board or strikes the board and then stops, increase the travel limit for the closed position and repeat the test.
- If the automatic reversal system continues to fail, contact customer service or a qualified service person for assistance.

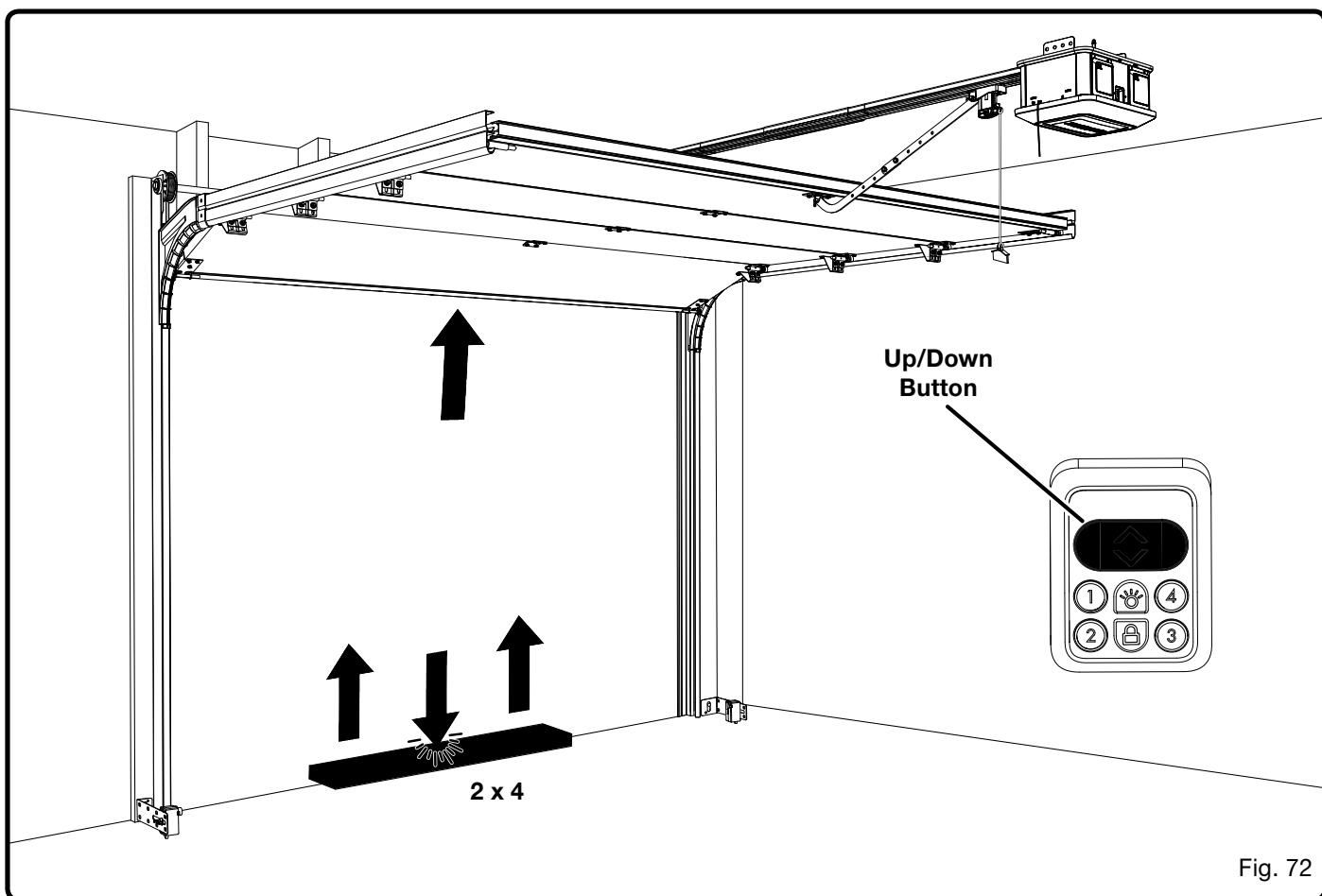


Fig. 72

# INSTALLATION

Upon completion of installation and setup of your garage door opener and controls, perform all of the items on the following checklist to ensure the garage door opener functions properly:

## **WARNING:**

Failure to complete the Installation Verification Checklist and verify proper function of the garage door opener can result in death or serious personal injury.

	
Use the indoor keypad to open and close the garage door. Ensure garage door moves smoothly from fully open to fully closed and from fully closed to fully open.	
With the garage door raised, place a 1-1/2 in. Board (approximately the size of a 2x4 laid flat) on the garage floor beneath the door and attempt to close the door on the object. Ensure the garage door automatically reverses direction upon contacting the object.	
With the garage door raised, press the UP/DOWN button on the indoor keypad to close the door. Pass an object, such as a broomstick, between the safety sensors to break the safety beam while the door is lowering. Ensure the garage door automatically raises when the beam is broken.	
With the garage door lowered, pull the safety handle to disengage the door from the drive unit. Ensure the door is free to move once the outer trolley disengages from the inner trolley. Once this is confirmed, use the indoor keypad to cycle the drive unit and reengage the door to the drive unit.	
If the garage door opener has been connected to the RYOBI Garage Door Opener Accessory System app feature, test this feature prior to use. With the garage door raised, attempt to lower the door using the smartphone app. Ensure that the garage door opener light flashes and a beeping sound is emitted for a few seconds prior to the door beginning to lower.	

If any one of the above items fails to function as described in this Operator's Manual, do not use the garage door opener and contact customer service or a qualified service person for assistance.

# OPERATION

## IMPORTANT SAFETY INSTRUCTIONS

### **⚠ WARNING: TO REDUCE THE RISK OF SEVERE INJURY OR DEATH:**

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Never let children operate or play with door controls. Keep the remote control away from children.
3. Always keep the 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 opener monthly. The garage door MUST reverse on contact with a 1-1/ 2 inch object (or a 2 by 4 board laid flat) on the floor. After adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.
6. For products requiring an emergency release, if possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may allow the door to fall rapidly, causing injury or death.
7. KEEP GARAGE DOOR PROPERLY BALANCED. See owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other 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.

### **9. SAVE THESE INSTRUCTIONS.**

### **⚠ WARNING:**

Do not allow familiarity with products to make you careless. Remember that a careless fraction of a second is sufficient to cause death or serious injury.

### **⚠ WARNING:**

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious death or personal injury.

### **⚠ WARNING:**

To prevent SERIOUS INJURY or DEATH, DO NOT open garage door if fire is present unless you must escape through it. CALL 911 or the fire department. Opening the garage door will introduce fresh air and may cause fire to spread rapidly.

### **NOTICE:**

Before each use, inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service for assistance.

## **CONNECTING THE GARAGE DOOR OPENER TO A POWER SUPPLY**

*See Figure 73.*

- Assemble and mount the garage door opener as described earlier in the *Installation* section.
- Connect the garage door opener to an AC power supply.  
**NOTE:** Make sure the power supply is normal household voltage, 120 volts, AC only, 60 Hz.
- Ensure that the power cord does not droop excessively or contact moving parts.

# OPERATION

## INSTALLING ACCESSORIES

See Figures 74-75.

The garage door opener can power a variety of AC and DC accessories. **For a complete list of accessories, visit [www.ryobitools.com](http://www.ryobitools.com).**

### ⚠ WARNING:

Installing and removing accessories will require the use of a ladder. Use extreme care when standing on a ladder. Ensure someone is holding the ladder on the ground to keep it stable. Failure to safely use a ladder can cause a fall and result in death or serious personal injury.

### ⚠ WARNING:

Use only recommended accessories listed on our website, in this manual, or in addendums. Use of accessories that are not listed may cause the risk of personal injury. Instructions for safe use of accessories are included with the accessory.

### ⚠ WARNING:

Ensure accessories are properly and securely connected to their port on the garage door opener. Failure to properly secure the accessory can cause it to fall and could result in serious personal injury or property damage.

#### For DC accessories:

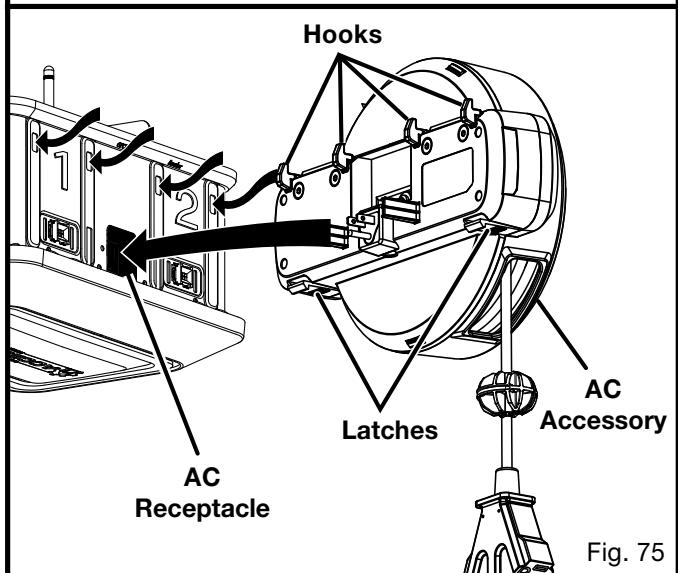
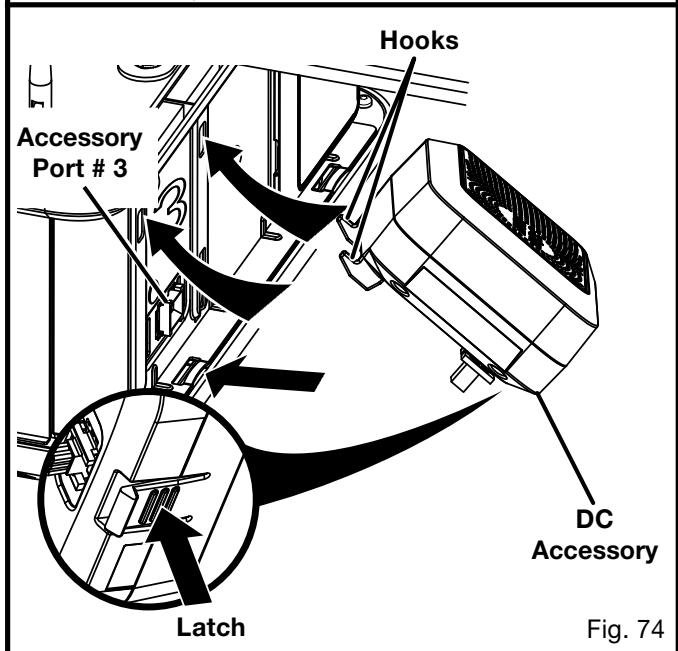
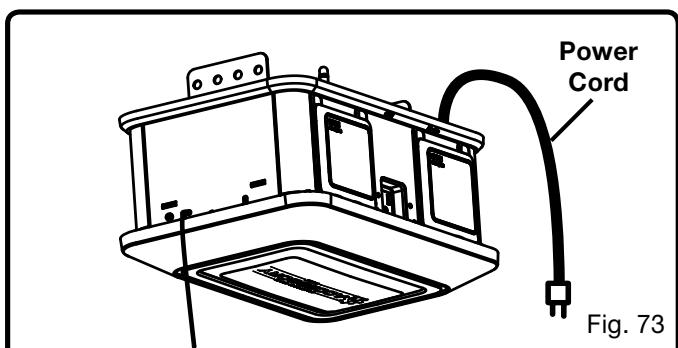
- Select one of the accessory ports to power your DC accessory.
- Hook the accessory to the top of the garage door opener and insert it into the accessory port. Ensure the bottom latch on the accessory is secured to the port on the garage door opener.

**NOTE:** DC accessories will not receive power unless the accessory port has been activated. See **Using the Indoor Keypad** later in this section.

- Depress latches to release and remove the accessory.

#### For AC accessories:

- Remove accessory port covers on the left and right of the AC receptacle.
- Insert AC accessory into the AC receptacle as shown.
- Secure the accessory in place by hooking it to the top of the garage door opener and ensure the bottom latch on the accessory is secured to the port on the garage door opener.
- Depress latches to release and remove the accessory.



# OPERATION

## USING THE INDOOR KEYPAD

See Figure 76.

### **WARNING:**

Keep moving door in sight when using indoor keypad. Contact with moving door can cause DEATH or serious injury.

The indoor keypad has backlights that turn on when garage door opener is connected to a power supply. When the keypad is locked, the backlights will blink.

- Install and wire the indoor keypad as described earlier in the *Installation* section.
- To raise or lower the garage door, press and release the **UP/DOWN** button.
- To enter and exit vacation mode, press and hold the **LOCK** (🔒) button on the indoor keypad for one second. When the unit is in vacation mode, it can only be controlled using the indoor keypad and smartphone app. The unit will not respond to car remotes.

**NOTE:** The LEDs in the indoor keypad will blink when the unit is in vacation mode.

- To turn the LED lights on and off, press and release the **LIGHT** (💡) button.

**NOTE:** When the **LIGHT** (💡) button is pressed, the LED light will illuminate for three minutes.

- Use the **PROGRAM** (➡) button to connect car remotes to the garage door opener. Refer to **Programming the Car Remotes** later in this section.

- Use the **Wi-Fi** (WiFi) button to connect the garage door opener to a wireless network. Refer to **Using the Smartphone App** later in this section.

### Activating and deactivating accessory ports:

- To activate a accessory port, press the number on the indoor keypad corresponding with the desired port. For example, to activate accessory port #2, press **NUMBER 2** on your keypad.

**NOTE:** An active accessory port can be used to power DC accessories. Multiple ports can be activated at once.

- To deactivate a accessory port, press the number on the indoor keypad corresponding with the port.

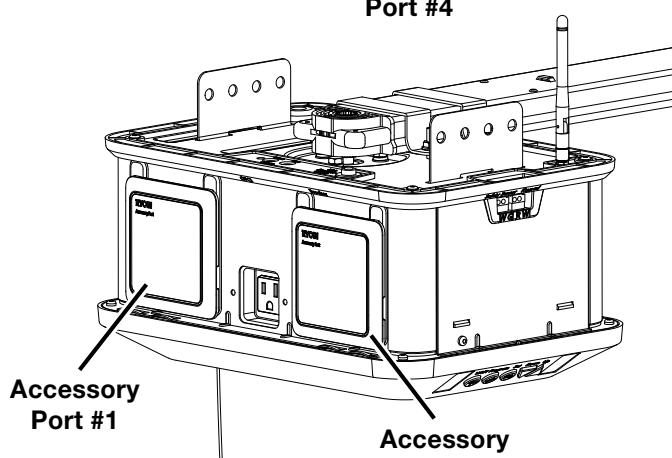
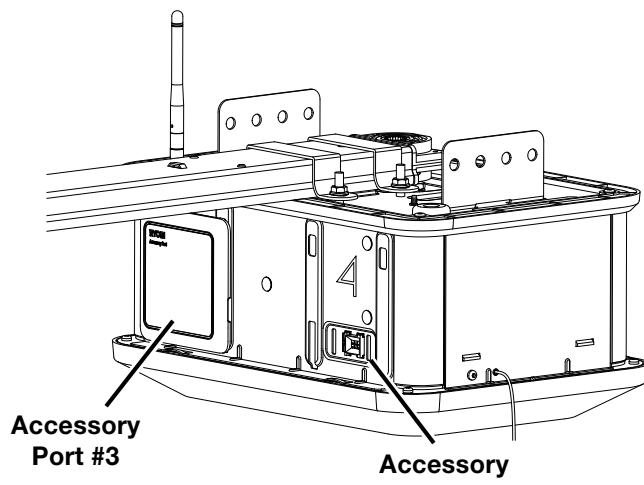
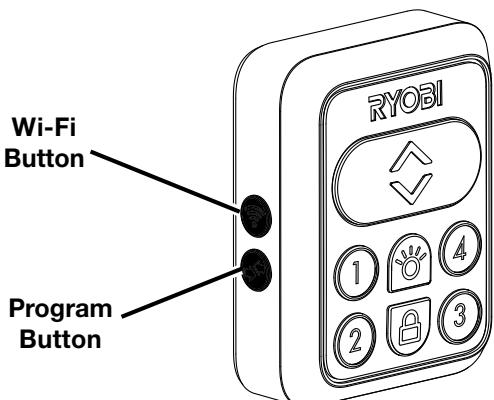
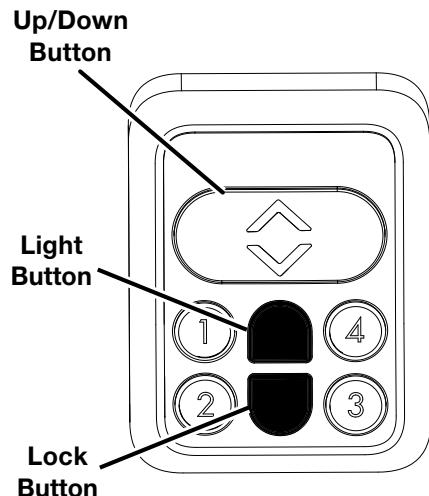


Fig. 76

# OPERATION

## TESTING THE AUTOMATIC REVERSAL SYSTEM

See Figure 77.

### ⚠ DANGER:

Test the automatic reversal system after installation, prior to first use, every month, and after any adjustments are made to the garage door travel limits. If the door contacts an object higher than 1-1/2 in. off the garage floor (approx. the size of a 2x4 laid flat), it should stop and reverse to the fully open position. If the automatic reversal system does not function properly, a closing garage door could kill or seriously injure someone in its path.

### ⚠ WARNING:

**DO NOT** operate the garage door opener unless the automatic reversal system is working correctly. Following this rule will reduce the risk of death or serious personal injury.

- Press and release the **UP/DOWN** button on the indoor keypad to raise the garage door.
- Place a 1-1/2 in. board (approx. the size of a 2x4 laid flat) on the garage floor beneath the door.
- Press and release the **UP/DOWN** button on the indoor keypad to lower the garage door. When the door strikes the board, it should reverse direction immediately.
- If the garage door reverses direction after contacting the board, the reversal system is working properly and no adjustments are needed.
- If the garage door stops before striking the board or strikes the board and then stops, increase the travel limit for the closed position and repeat the test.
- If the automatic reversal system continues to fail, contact customer service or a qualified service person for assistance.

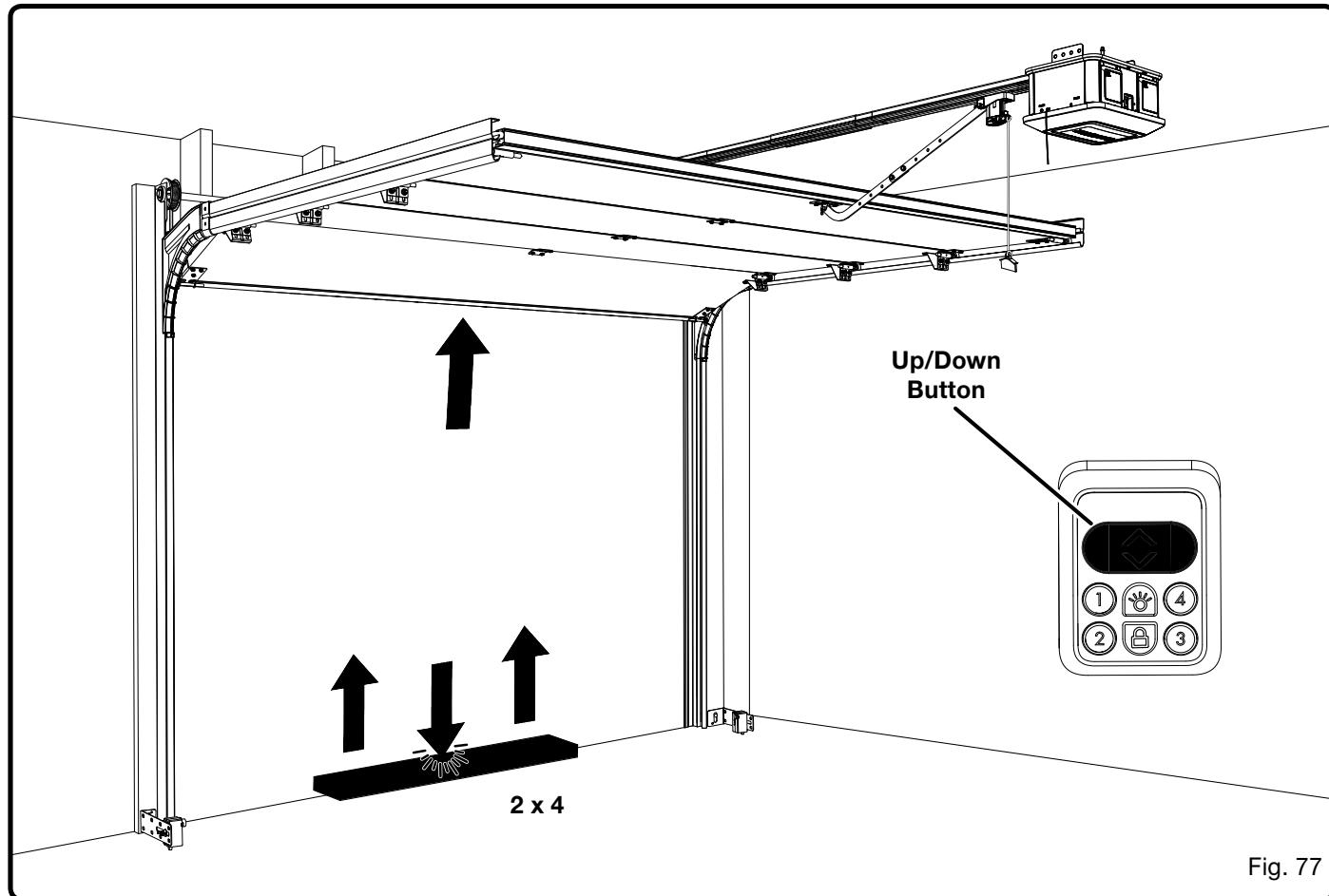


Fig. 77

# OPERATION

## PROGRAMMING THE CAR REMOTES

See Figure 78.

### ⚠️ WARNING:

Keep moving door in sight when using car remotes. Contact with moving door can cause DEATH or serious injury.

Once you begin programming the car remotes, you have two minutes to complete each step. If a step is not completed within two minutes, programming information will be erased.

- Press the **PROGRAM** (➡) button on the garage door opener's console or indoor keypad.
- The main garage door opener's LEDs will turn off and the **PROGRAM** (➡) button will flash three times.
- Select button **1** or **2** on the car remote. Press the button once.
- The car remote's green LED will flash.
- The **PROGRAM** (➡) button on the main unit and indoor keypad will flash three times.
- The garage door opener main unit LEDs will turn on.
- To verify that the program is set, press the car remote button you selected earlier.
- The garage door will open or close.
- Repeat this process to sync the garage door opener with an additional remote.

**NOTE:** Buttons **1** and **2** cannot both be programmed to the same garage door opener.

**NOTE:** Safety sensors must always be connected properly for the door to operate from the car remote.

**NOTE:** The garage door opener cannot be operated with a car remote until travel limits have been set.

## USING THE SMARTPHONE APP

See Figure 79.

### ⚠️ WARNING:

To reduce the risk of injury to persons – Only enable the RYOBI Garage Door Opener Accessory System App feature when installed with a sectional door.

### ⚠️ WARNING:

Devices or features, such as the RYOBI Garage Door Opener Accessory System App, that allow you to open and close the garage without the garage door being in view should only be used with sectional garage doors.

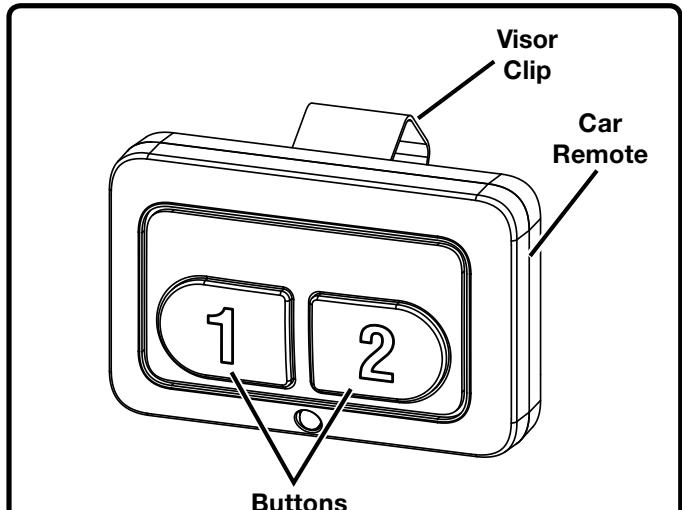


Fig. 78

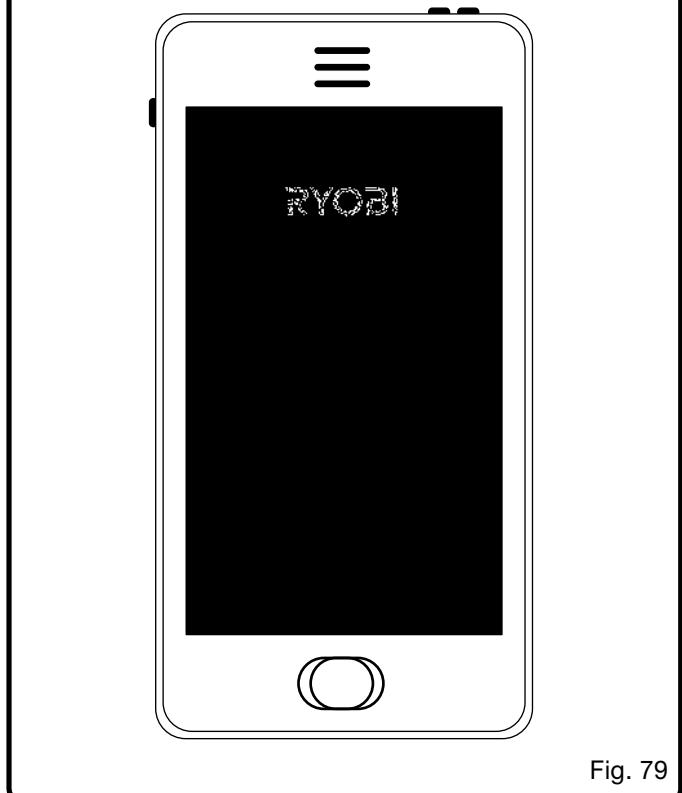


Fig. 79

**NOTE:** A Wi-Fi router connected to the internet is required to use the smartphone app. You will not be able to open your garage door or receive other information from installed accessories using the smartphone app if your home's Wi-Fi connection with your garage door opener is not connected or functioning properly.

- Download the RYOBI™ Garage Door Opener Accessory System™ App from the **App Store** or **Google Play Store**.
- Follow the instructions provided in the app and app guide to control your garage door opener and accessories. For more information, visit [www.ryobitools.com](http://www.ryobitools.com).

# MAINTENANCE

## IMPORTANT SAFETY INSTRUCTIONS

### **⚠ WARNING:**

### **TO REDUCE THE RISK OF SEVERE INJURY OR DEATH:**

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Never let children operate or play with door controls. Keep the remote control away from children.
3. Always keep the 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 opener monthly. The garage door MUST reverse on contact with a 1-1/ 2 inch object (or a 2 by 4 board laid flat) on the floor. After adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.
6. For products requiring an emergency release, if possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may allow the door to fall rapidly, causing injury or death.
7. KEEP GARAGE DOOR PROPERLY BALANCED. See owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other 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.

### **9. SAVE THESE INSTRUCTIONS.**

### **⚠ WARNING:**

Before inspecting, cleaning or servicing the machine, lower the garage door, shut off motor, wait for all moving parts to stop, disconnect unit from power supply, and remove all accessories. Failure to follow these instructions can result in serious personal injury or property damage.

### **⚠ WARNING:**

When servicing, use only identical replacement parts. Use of any other parts could create a personal injury hazard or cause product damage.

### **⚠ WARNING:**

Periodically inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service for assistance. Loose, missing, or damaged parts can result in death, serious personal injury, or property damage.

### **⚠ WARNING:**

If you feel uncomfortable performing any of the maintenance steps described in this manual, have the maintenance performed by a qualified service person. Improper maintenance of the garage door opener can result in death, serious personal injury, or property damage.

### **⚠ WARNING:**

Many of the steps described in this MAINTENANCE section require the use of a ladder. Use extreme care when standing on a ladder. Ensure someone is holding the ladder on the ground to keep it stable. Failure to safely use a ladder can cause a fall and result in death or serious personal injury.

### **GENERAL MAINTENANCE**

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

# MAINTENANCE

## ⚠ WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which could result in serious personal injury.

## POWER SUPPLY CORD REPLACEMENT

## ⚠ WARNING:

If replacement of the power supply cord is necessary, this must be done by the manufacturer in order to avoid a safety hazard.

## LOWERING THE POWER HEAD AND REMOVING THE RAIL ASSEMBLY

See Figures 80 - 85.

It is recommended that you lower the power head and disconnect it from the rail assembly before performing any maintenance. **Use extreme caution if maintenance is performed while the unit is mounted to a ceiling.**

- Lower the garage door completely.
- Place a 6 or 7 foot ladder directly beneath the power head and climb up to gain access to the unit.

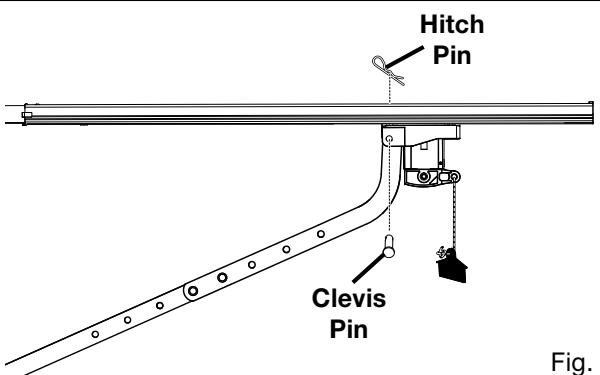


Fig. 80

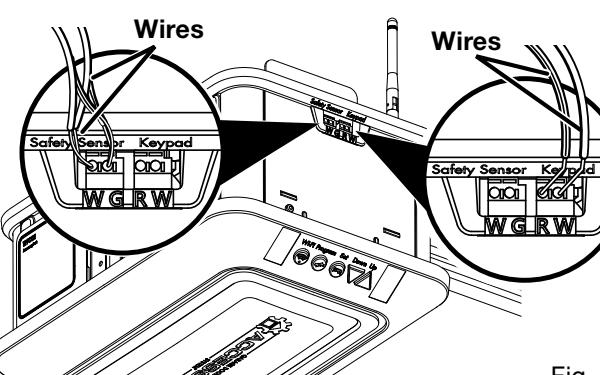


Fig. 81

- Unplug the power head from AC power supply.
- Remove the clevis pin and hitch pin securing the door arm to the outer trolley.
- Disconnect the wires for the keypad and sensors.
- Using a 7/16 in. socket, remove bolts and nuts connecting the power head to the mounting straps.
- Carefully lower the power head and place it on top of the ladder.
- With someone's help, slowly descend the ladder and bring the power head down with you.

**NOTE:** Be careful when lowering the power head. Do not allow the power head and rail assembly to fall or pull away from the header bracket.

- While holding the power head, have someone remove the 6 or 7 foot ladder.
- Place the power head on top of a prop or on the ground with a towel beneath it.

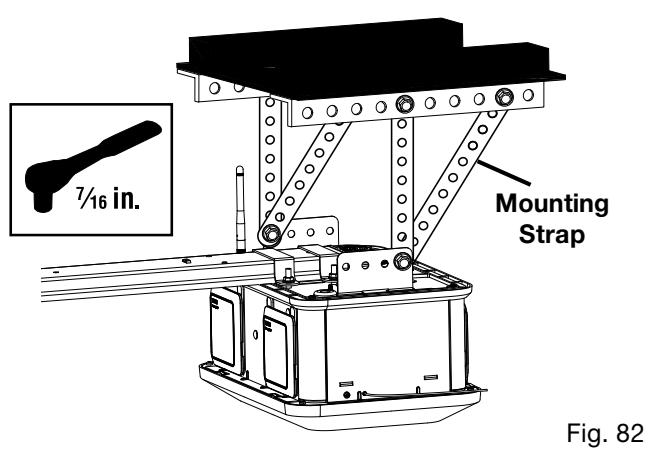


Fig. 82

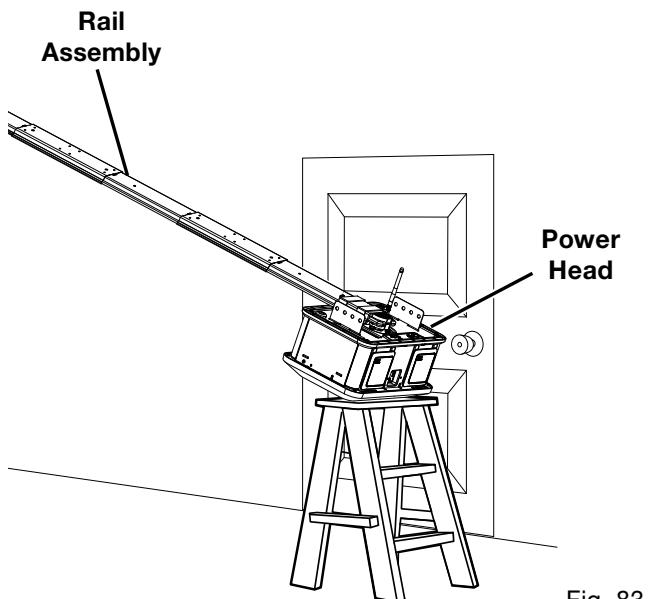


Fig. 83

# MAINTENANCE

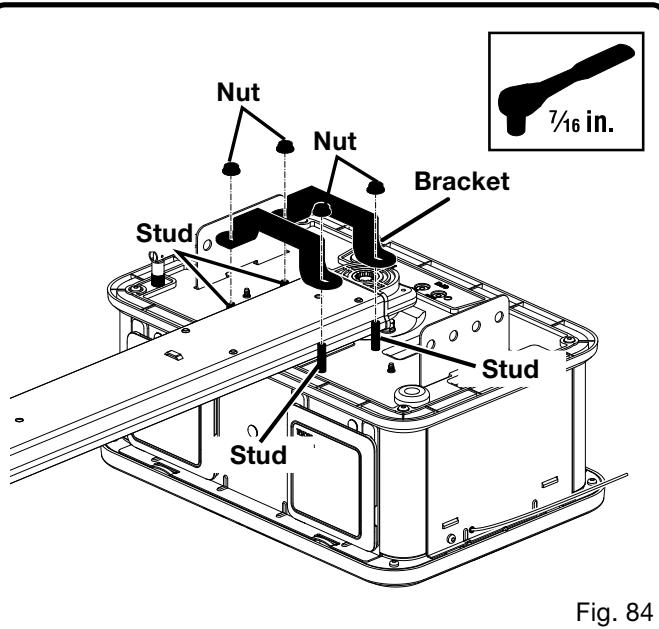
- Using a 7/16 in. socket, remove the nuts and bracket securing the rail assembly to the power head.
- Remove the rail assembly and sprocket from the power head.

## To raise and mount the power head:

- Secure the rail assembly to the power head as described in the *Assembly* section on page 8.
- Mount the power head to the ceiling bracket as described in the *Installation* section on pages 24 and 25.
- Use the door arms to connect the outer trolley to the door bracket as described in the *Installation* section on pages 28 and 29.
- Insert the keypad and sensor wires into the appropriate terminals as described in the *Installation* section on pages 30 - 32.
- Plug the power head into an AC power supply.
- Make sure the safety sensors are aligned, set the door travel limits, and test the automatic reversal feature as described in the *Installation* section on pages 33 - 39.
- Upon completion of installation and setup of your garage door opener and controls, perform all of the items on the **Installation Verification Checklist** on page 40 to ensure the garage door opener functions properly.

## ⚠ WARNING:

Failure to complete the Installation Verification Checklist and verify proper function of the garage door opener can result in death or serious personal injury.

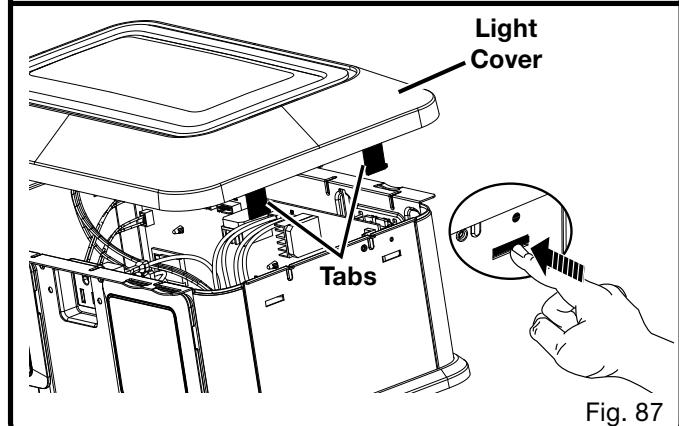
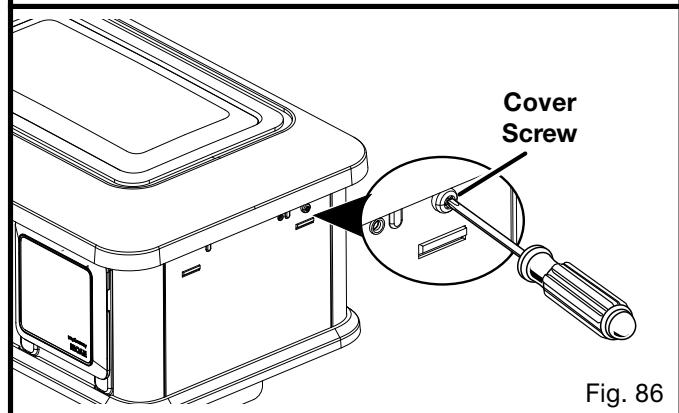
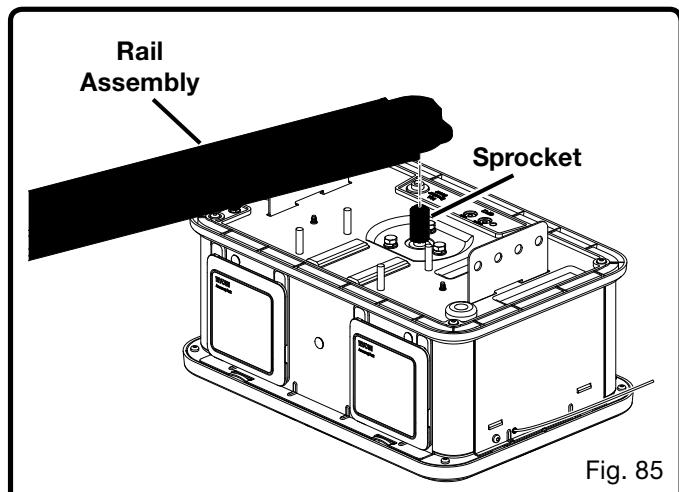


## REMOVING THE LIGHT COVER

See Figures 86 - 87.

- Lower the power head and disconnect the rail assembly.
- Place the power head on top of a prop or on the ground with a towel beneath it with the light cover facing up.
- Loosen and remove the two cover screws on both sides of the power head.
- Push in the four tabs and gently raise the light cover away from the power head.

**NOTE:** Use caution when removing the light cover to avoid damaging the wires inside.



# MAINTENANCE

## CIRCUIT BOARD

See Figure 88.

## WARNING:

Ensure the garage door opener power head is disconnected from the power supply before disconnecting any wires from the circuit board assembly. Have the maintenance performed by a qualified service person if you are not comfortable performing any of these procedures. Improper handling of electrical and electronic components of the garage door opener can result in death, serious personal injury, or property damage.

Some maintenance procedures will require you to disconnect wires from the circuit board assembly. Use the circuit board schematic below to locate pin connections for the main hall, secondary hall, keyboard, ant, motor (-), motor (+), and LED board wires.

**NOTE:** The schematic is oriented with the motor (+) pin connection in the bottom right corner.

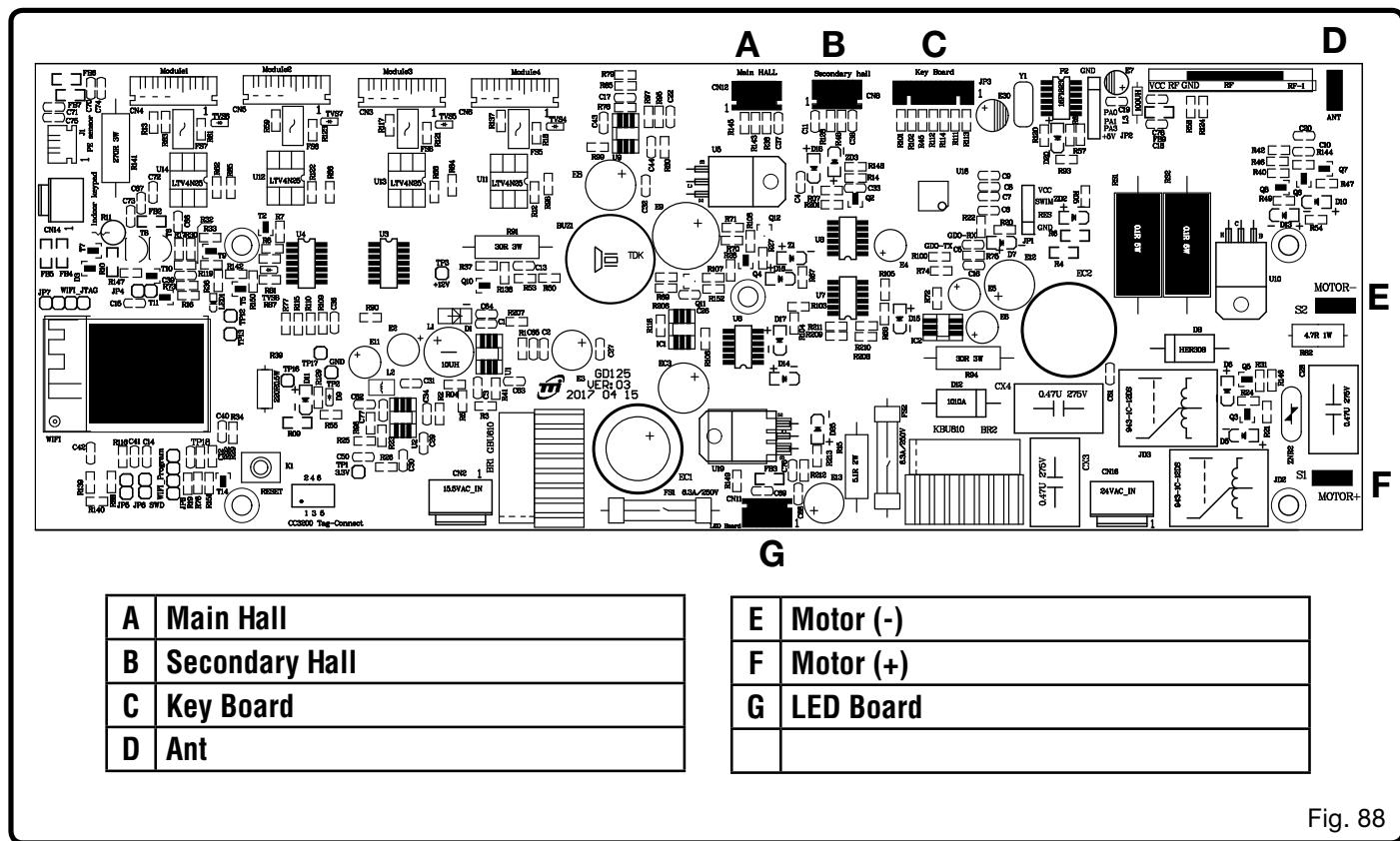


Fig. 88

# MAINTENANCE

## REPLACING THE LED BOARD

See Figures 90 - 91.

- Lower the power head and disconnect the rail assembly.
- Remove the light cover.
- Disconnect the LED board and button board wires from the circuit board.
- Remove the four screws securing the upper portion of the light cover to the lower portion.
- Lift the upper portion of the light cover away from the lower portion.
- Place the upper portion of the light cover on a flat surface with the old LED board facing up.
- Squeeze the top of the plastic pins to release the old LED board.
- Remove the old LED board and wire.
- Align the holes in the LED board with the plastic pins.
- Install the LED board with the LEDs facing up.
- Route the LED board wire through the hole in the upper portion of the light cover.
- Reassemble the light cover.
- Connect the LED board wire to the **LED board connection** on the circuit board, *refer to schematic*.
- Connect the button board wire to the **key board connection** on the circuit board, *refer to schematic*.
- Attach the light cover to the power head.
- Raise and mount the power head as described earlier.

## REPLACING THE BUTTON BOARD

See Figure 92.

- Lower the power head and disconnect the rail assembly.
- Remove the light cover.
- Disconnect the LED board and button board wires from the circuit board.
- Remove the four screws securing the upper portion of the light cover to the lower portion.
- Lift the upper portion of the light cover away from the lower portion.
- Pull the button board wire through the hole in the upper portion of the light cover.
- Place the lower portion of the light cover on a flat surface with the old button board facing down.
- Remove the screws securing the old button board and remove the board.
- Place the new button board onto the lower portion of the light cover and secure with screws.
- Route the button board wire through the hole in the upper portion of the light cover.
- Reassemble the light cover.
- Connect the LED board wire to the **LED board connection** on the circuit board, *refer to schematic*.

- Connect the button board wire to the **key board connection** on the circuit board, *refer to schematic*.
- Attach the light cover to the power head.
- Raise and mount the power head as described earlier.

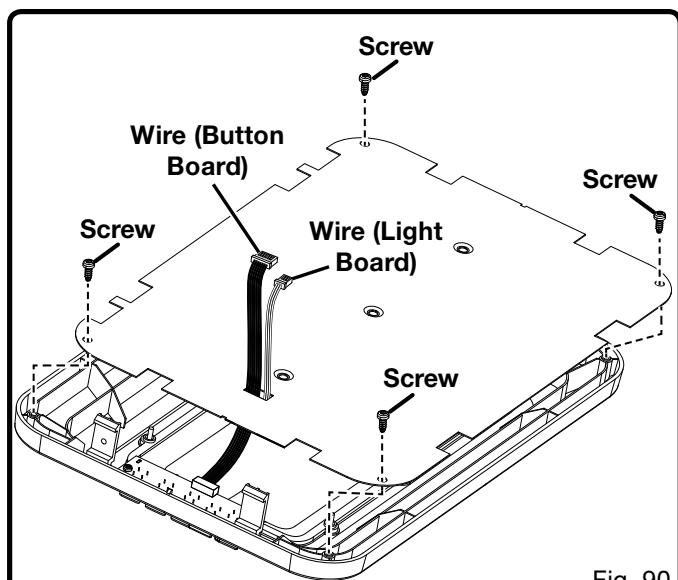


Fig. 90

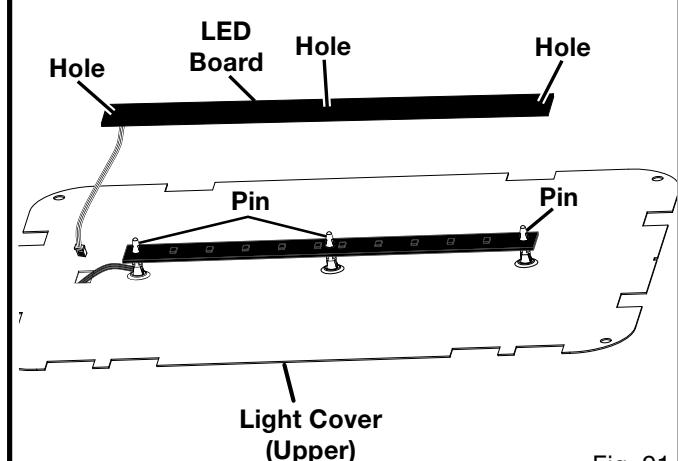


Fig. 91

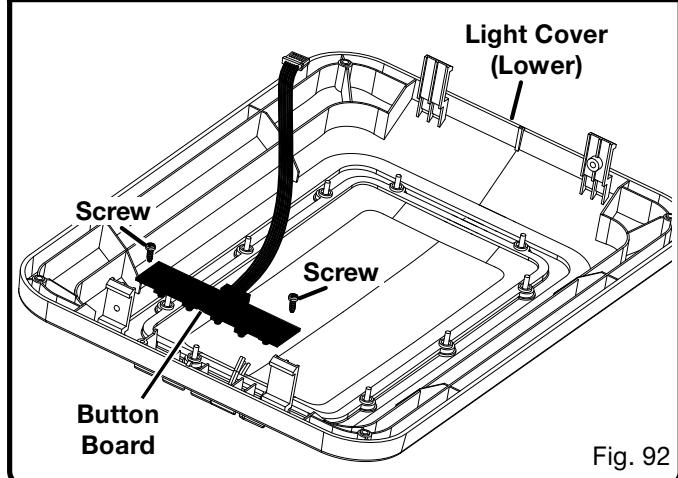


Fig. 92

# MAINTENANCE

## REPLACING THE HALL SENSORS

See Figure 93.

- Lower the power head and disconnect the rail assembly.
- Remove the light cover.
- Disconnect the LED board and button board wires from the circuit board.
- Set the light cover aside.
- Place the power head on a flat surface with the top of the motor facing up.
- Locate the old main and secondary hall sensors on top of the motor.
- Remove the old main hall sensor from the motor and disconnect the main hall sensor wire from the circuit board.
- Connect the new main hall sensor to the motor and connect the main hall sensor wire to the **main hall connection** on the circuit board, *refer to schematic*.
- Remove the old secondary hall sensor from the motor and disconnect the secondary hall sensor wire from the circuit board.
- Connect the new secondary hall sensor to the motor and connect the secondary hall sensor wire to the **secondary hall connection** on the circuit board, *refer to schematic*.
- Connect the LED board wire to the **LED board connection** on the circuit board, *refer to schematic*.
- Connect the button board wire to the **key board connection** on the circuit board, *refer to schematic*.
- Attach the light cover to the power head.
- Raise and mount the power head as described earlier.

- Connect positive lead for the motor power cable to the **motor (+) connection** and the negative lead to the **motor (-) connection** on the circuit board, *refer to schematic*.
- Connect the LED board wire to the **LED board connection** on the circuit board, *refer to schematic*.
- Connect the button board wire to the **key board connection** on the circuit board, *refer to schematic*.
- Attach the light cover to the power head.
- Raise and mount the power head as described earlier.

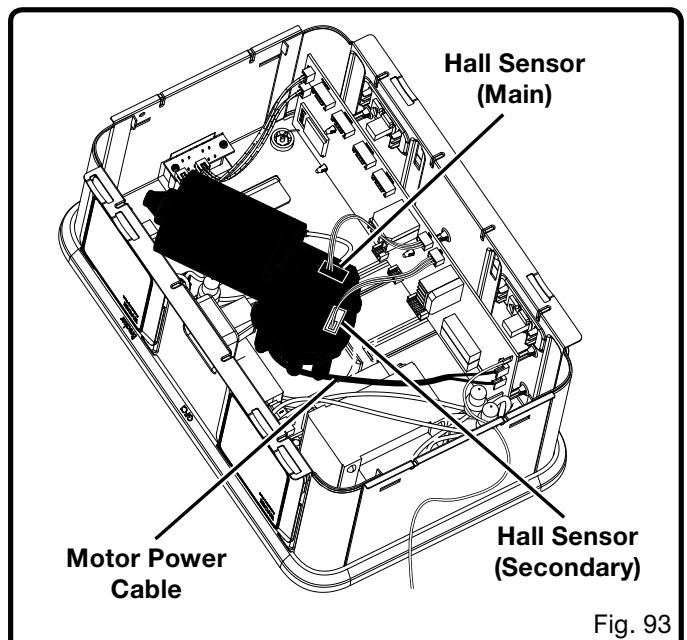


Fig. 93

## REPLACING THE MOTOR

See Figures 93 and 94.

- Lower the power head and disconnect the rail assembly.
- Remove the light cover.
- Disconnect the LED board and button board wires from the circuit board.
- Set the light cover aside.
- Place the power head on a flat surface with the top of the motor facing up.
- Disconnect the main and secondary hall sensor wires from the circuit board.
- Disconnect the positive and negative leads for the motor power cable from the circuit board.
- Loosen and remove the motor bolts on the underside of the motor.
- Remove old motor and wires.
- Place new motor in power head and secure with bolts.
- Connect the main hall sensor wire to the **main hall connection** on the circuit board, *refer to schematic*.
- Connect the secondary hall sensor wire to the **secondary hall connection** on the circuit board, *refer to schematic*.

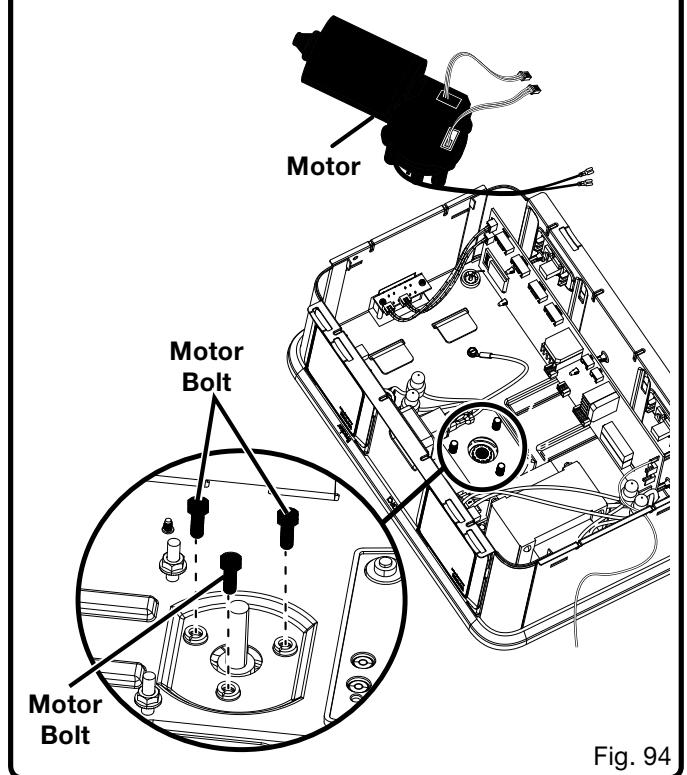


Fig. 94

# MAINTENANCE

## REPLACING THE RF ANTENNA

See Figure 95.

- Lower the power head and disconnect the rail assembly.
- Remove the light cover.
- Disconnect the LED board and button board wires from the circuit board.
- Set the light cover aside.
- Place the power head on a flat surface with the top of the motor facing up.
- Remove the old RF antenna from the circuit board and pull it away from the power head.
- Connect the new RF antenna to the **ant connection** on the circuit board, *refer to schematic*.
- Insert the loose end of the RF antenna through the hole in the power head.
- Gently pull on the loose end until most of the RF antenna is on the exterior of the power head.
- Connect the LED board wire to the **LED board connection** on the circuit board, *refer to schematic*.
- Connect the button board wire to the **key board connection** on the circuit board, *refer to schematic*.
- Attach the light cover to the power head.
- Raise and mount the power head as described earlier.

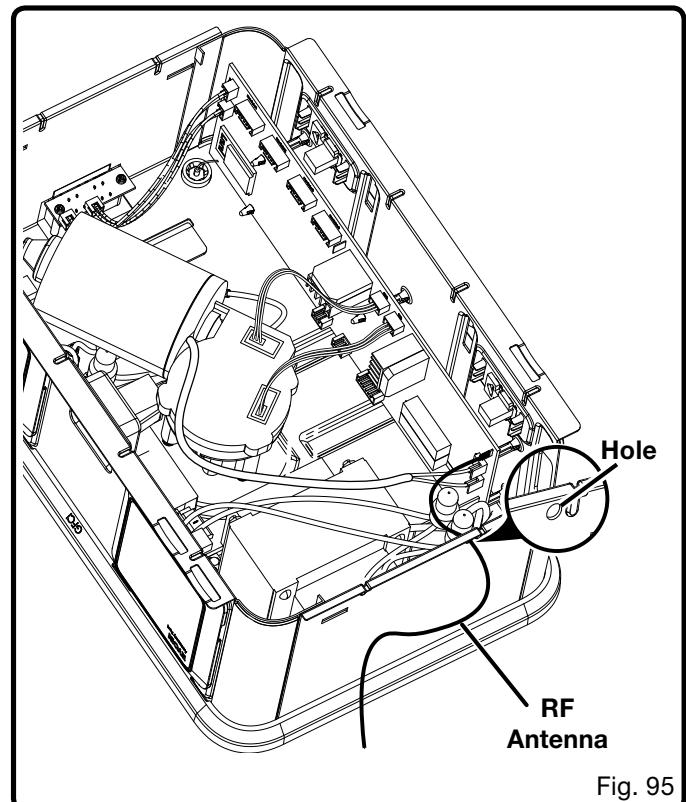


Fig. 95

# MAINTENANCE

## REPLACING CAR REMOTE BATTERIES

See Figure 96.

### ⚠ WARNING:

KEEP BUTTON/COIN CELL BATTERIES OUT OF SIGHT AND REACH OF CHILDREN. Swallowing batteries can lead to serious injury or death. If you suspect a child has ingested a battery, go to the hospital immediately. Do not induce vomiting or have your child eat or drink anything. For more information, call the National Battery Ingestion Hotline: 202-625-3333. The battery identification number for this product is CR2016 or CR2032.

### ⚠ WARNING:

Risk of injury due to fire, explosion, or leakage. Do not disassemble, charge, crush, or expose to fire or high temperatures.

- Remove visor clip.
- Remove the battery cover by inserting the edge of a coin into the slot and twisting.
- Install the battery or batteries according to the polarity indicators.

**NOTE:** The remote can be powered by one 2032-size battery, or two 2016-size batteries stacked together.

- Reassemble the remote by aligning the sections as shown.
- Snap the sections together to close.
- Make sure the remote is securely reassembled before attaching the visor clip.

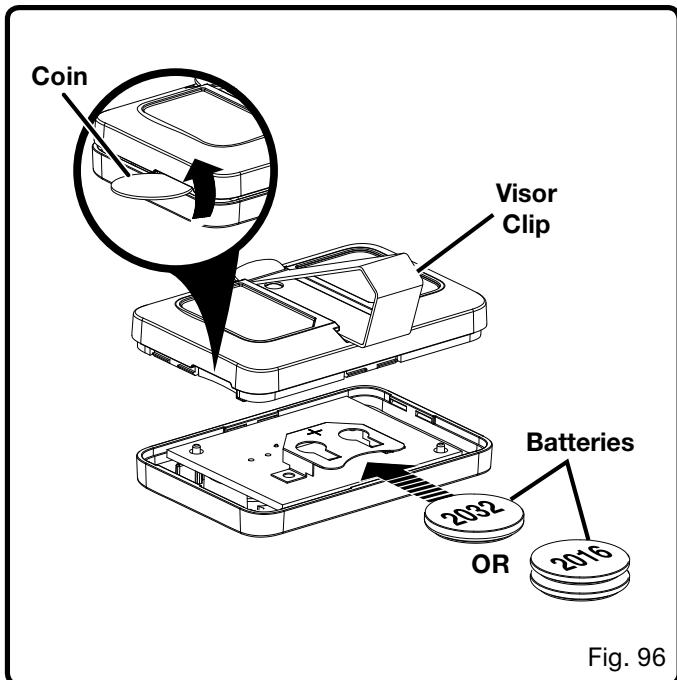


Fig. 96

## PERIODIC MAINTENANCE SCHEDULE

Each Week	<ul style="list-style-type: none"><li>■ Check the power head, rail, brackets, door arms, track, and rollers for loose or damaged parts. Replace or tighten as needed.</li></ul>
Each Month	<ul style="list-style-type: none"><li>■ Manually open and close the garage door. If the door does not move smoothly, binds, or is out of balance, have the garage door or door springs repaired by a qualified service person.</li><li>■ Test the automatic reversal system as described in the <i>Installation</i> section.</li></ul>
Every 3 Months	<ul style="list-style-type: none"><li>■ Test the travel limits of the garage door as described in the <i>Operation</i> section, and ensure it opens and closes fully.</li><li>■ Check the condition of the power supply cord. Replace as needed.</li></ul>
Each Year	<ul style="list-style-type: none"><li>■ Lubricate the garage door rollers and hinges. The garage door opener is lubricated with a sufficient amount of lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication of the unit is required. <b>DO NOT ADD LUBRICANT TO TRACKS.</b></li></ul>

# ACCESSORIES

The following accessories are not included with your garage door opener but may be available where you purchased this product. For assistance, call 1-877-205-5714.

■ Extension Kits .....	.....GDAEXT100 (8 ft.), GDAEXT110 (10 ft.), GDAEXT112 (12 ft.), and GDAEXT114 (14 ft.)
■ Bluetooth® Speaker.....	.....GDM120
■ Dual Laser Park Assist .....	.....GDM222
■ Extension Cord Reel .....	.....GDM330
■ Speed Control Fan .....	.....GDM421
■ Security Camera .....	.....GDM610
■ High Powered Inflator .....	.....GDM800
■ Car Remote.....	.....GDA100
■ Outdoor Keypad.....	.....GDA300
■ Safety Sensor.....	.....GDA200

## ⚠ WARNING:

Current attachments and accessories available for use with this product are listed above. Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
All of the console buttons are blinking continuously.	DC voltage below 24V.  DC voltage exceeds 40 volts.	Disconnect the unit from the power supply. Wait several minutes before reconnecting. If problem persists, contact customer service.  Disconnect the unit from the power supply. Wait several minutes before reconnecting. If problem persists, contact customer service.
When setting or testing travel limits, a buzzer sounds and the <b>UP</b> button in the console blinks continuously.	Safety sensor (receiver) can't be detected.	Inspect sensor wires for damage and ensure they are installed correctly. Reset travel limits.
When setting or testing travel limits, a buzzer sounds and the <b>DOWN</b> button in the console blinks continuously.	Safety sensor (transmitter) can't be detected.	Disconnect the unit from the power supply. Inspect sensor wires for damage and ensure they are installed correctly. Connect the power supply and reset travel limits.
When testing travel limits, a buzzer sounds and all console buttons blink seven times.	A step for setting the travel limits was not completed within two minutes.	Complete each step for setting the travel limits within two minutes.
When testing travel limits, a buzzer sounds twice and all console buttons blink eleven times.	Safety sensors became misaligned or obstructed during testing.	Remove the obstruction or align the safety sensors as described in the <i>Installation and Operation</i> sections.

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
When programming a car remote, a buzzer sounds and all console buttons blink seven times.	A step for programming the car remote was not completed within two minutes.	Complete each step for programming the car remote within two minutes.
During operation, the opener struggles to raise or lower the door and then stops. A buzzer sounds continuously and the <b>SET</b> (सेट) button in the console blinks continuously.	Motor amperage has exceeded 8 amps.  Door spring (torsion spring and/or extension spring) is damaged.  Door is too heavy, broken, or stuck.	Unplug the unit. Have door spring or door repaired or replaced by a qualified service technician.  Unplug the unit. Have door spring repaired or replaced by a qualified service technician.  Unplug the unit. Have door repaired or replaced by a qualified service technician.
When a car remote, smartphone, or keypad is used a buzzer sounds and the <b>UP</b> and <b>DOWN</b> buttons in the console blink continuously.	The travel limits have been erased or have not been set correctly.	Set the travel limits as described in the <i>Installation</i> section.
Garage door begins to close then stops and reverses.	The garage door opener hit an object while it was closing.	Remove the object and continue operation.
Garage door opener is in the fully open position and cannot be closed with a car remote, smartphone, or keypad.	The safety sensors are not receiving power.	Inspect sensor wires for damage and ensure they are installed correctly. Reset travel limits.
Garage door opener does not activate when indoor keypad is pressed.	The wire connecting the keypad to the power head has been damaged.  Circuit breaker is tripped.	Replace damaged or broken wires.  Reset circuit breaker.
Garage door opener activates, but the garage door does not move.	The outer trolley is not engaged with the inner trolley.  The door arms are not connected to the outer trolley.  The door arms are not connected to the garage door.	Pull the emergency release rope and raise the garage door until the outer trolley engages the inner trolley  Secure the door arms to the outer trolley using clevis and hitch pin  Secure the door arms to the garage door using clevis and hitch pin

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Garage door cannot be opened or closed with car remote.	The garage door opener is in Vacation Mode.	Press the <b>LOCK</b> (🔒) button on the indoor keypad or smartphone app to unlock the garage door opener.
Garage door opener is loud or noisy.	Fasteners may not be tightened securely.  The open travel limit has been set incorrectly (Single Panel Doors Only).	Inspect the entire product for loose parts such as screws, nuts, bolts, caps, etc. Tighten all parts securely.  Adjust the travel limits as described in the <i>Installation</i> section.
AC accessories not working.	AC power supply is disconnected. GFCI is tripped. Accessory is installed with a rating of more than 10 amps.	Connect AC power supply. Press the reset button on the top of the unit. Remove the accessory and press the 10 amp circuit breaker reset button on the top of the unit.
DC accessories not working.	AC power supply is disconnected. The port powering the DC accessory is not activated.	Connect AC power supply. Use the indoor keypad to activate the port.
Car remote not working.	RF antenna is obstructed. Remote not programmed correctly. The remote's signal is obstructed.	Position the antenna below the opener. Program the remote as described in the <i>Operation</i> section. Move remote to a different location.
Opener can't connect to Wi-Fi network.	Wi-Fi router is not connected to the internet. Opener not programmed correctly. Wi-Fi router using WEP security scheme.	Connect Wi-Fi router to the internet. Program unit according to app instructions. Change your network security settings to WPA/WPA2.

# WARRANTY

## LIMITED WARRANTY STATEMENT

One World Technologies, Inc., warrants to the original retail purchaser that this RYOBI™ brand garage door opener is free from defect in material and workmanship and agrees to repair or replace, at One World Technologies, Inc.'s discretion, any defective product or part free of charge for the following time periods starting from the date of purchase.

- Three years for the power head, gearbox, rails, door arms, sensors, remotes, and keypads.
- Lifetime for the motor and belt. Lifetime shall mean as long as the original retail purchaser owns the garage door opener and the opener is not removed from its original installation.

This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase.

If, within the warranty periods stated above, this product appears to have a defect covered under the limited warranty, contact customer service at 1-877-205-5714. One World Technologies, Inc. must be given a reasonable amount of time to determine if a warranty claim is valid prior to product being removed or altered. If it is determined that your claim is valid, you may be provided with instructions for disassembling and shipping the product or defective part. Any part of this product manufactured or supplied by One World Technologies, Inc., and found in the reasonable judgment of One World Technologies, Inc., to be defective in material or workmanship will be repaired or replaced without charge for parts. If disassembly, reinstallation, or repair is performed by a professional, labor costs are the sole responsibility of the purchaser.

The expense of shipping the product for warranty work and the expense of returning it back to the owner after repair or replacement will be paid by the owner. One World Technologies, Inc.'s responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any RYOBI™ brand product. Proof of purchase will be required to substantiate any warranty claim. All warranty work must be approved by One World Technologies, Inc.

Instructions for installing, operating, maintaining, and testing the unit are included in the operator's manual. Failure to strictly adhere to those instructions will void this limited warranty.

This warranty does not cover any product that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the operator's manual. This warranty does not apply to any damage to the product that is the result of improper maintenance or to any product that has been altered or modified so as to adversely affect the product's operation, performance or durability or that has been altered or modified so as to change its intended use.

The warranty does not extend to repairs made necessary by normal wear, acts of God, or by the use of parts or accessories which are either incompatible with the RYOBI™ brand garage door opener or adversely affect its operation, performance or durability. This warranty excludes units installed for non-residential or commercial use, labor costs for installing repaired or replacement units, any unauthorized repairs or modifications, the cost of replacing consumable items such as keypad and remote batteries, problems that may occur as a result of radio interference, and items that are a part of or related to the garage door including but not limited to door springs, door hinges, door rollers, and other garage door hardware.

One World Technologies, Inc., reserves the right to change or improve the design of any RYOBI™ brand garage door opener without assuming any obligation to modify any product previously manufactured.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE STATED WARRANTY PERIOD. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE STATED THREE-YEAR WARRANTY PERIOD. ONE WORLD TECHNOLOGIES, INC.'S OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AND ONE WORLD TECHNOLOGIES, INC., DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ONE WORLD TECHNOLOGIES, INC., ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO EXPENSE OF RETURNING THE PRODUCT TO ONE WORLD TECHNOLOGIES, INC. AND EXPENSE OF DELIVERING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF A LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, OR INCONVENIENCE, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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

This warranty applies to all RYOBI™ brand garage door openers distributed by One World Technologies, Inc., and sold in the United States, Mexico, and Canada.

## FCC COMPLIANCE

The following FCC compliance information is for the GD125 garage door opener only. For information regarding other products and accessories, refer to the labels and documentation included with those items.

## ⚠ WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC rules. 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.

**NOTE:** The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

**NOTE:** 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 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.

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. This device complies with RSS-247 of Innovation, Science and Economic Development Canada. Operation is subject to the condition that this device does not cause harmful interference. This Class B digital apparatus complies with Canadian ICES-003 (Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada).

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

**For additional FCC information, refer to the data label located on the side of the unit.**

