

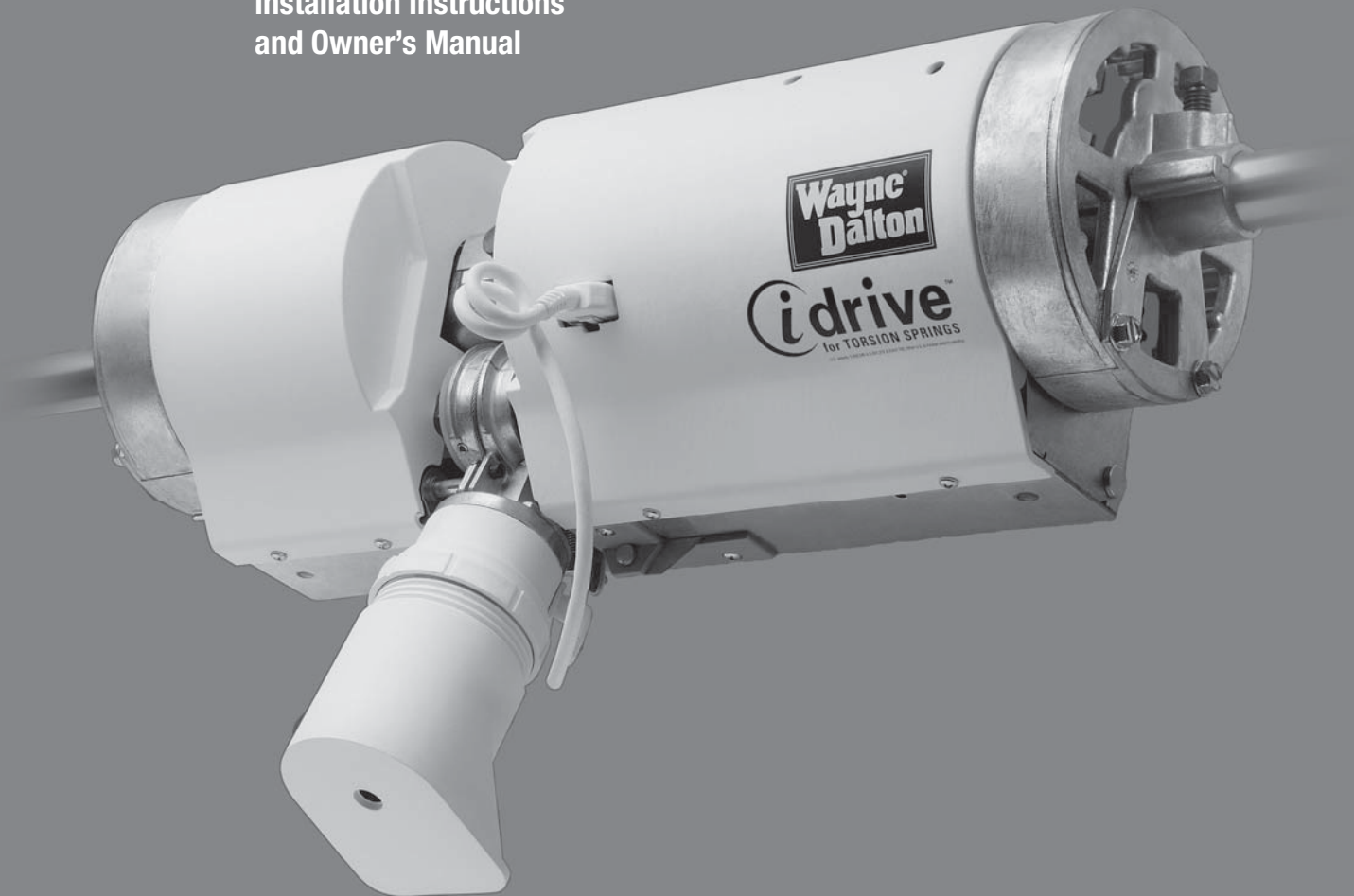
# INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

**i drive**<sup>®</sup>

for TORSION SPRINGS

Model 3652-372

Installation Instructions  
and Owner's Manual

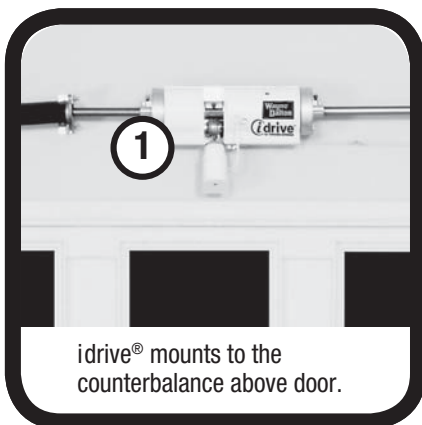
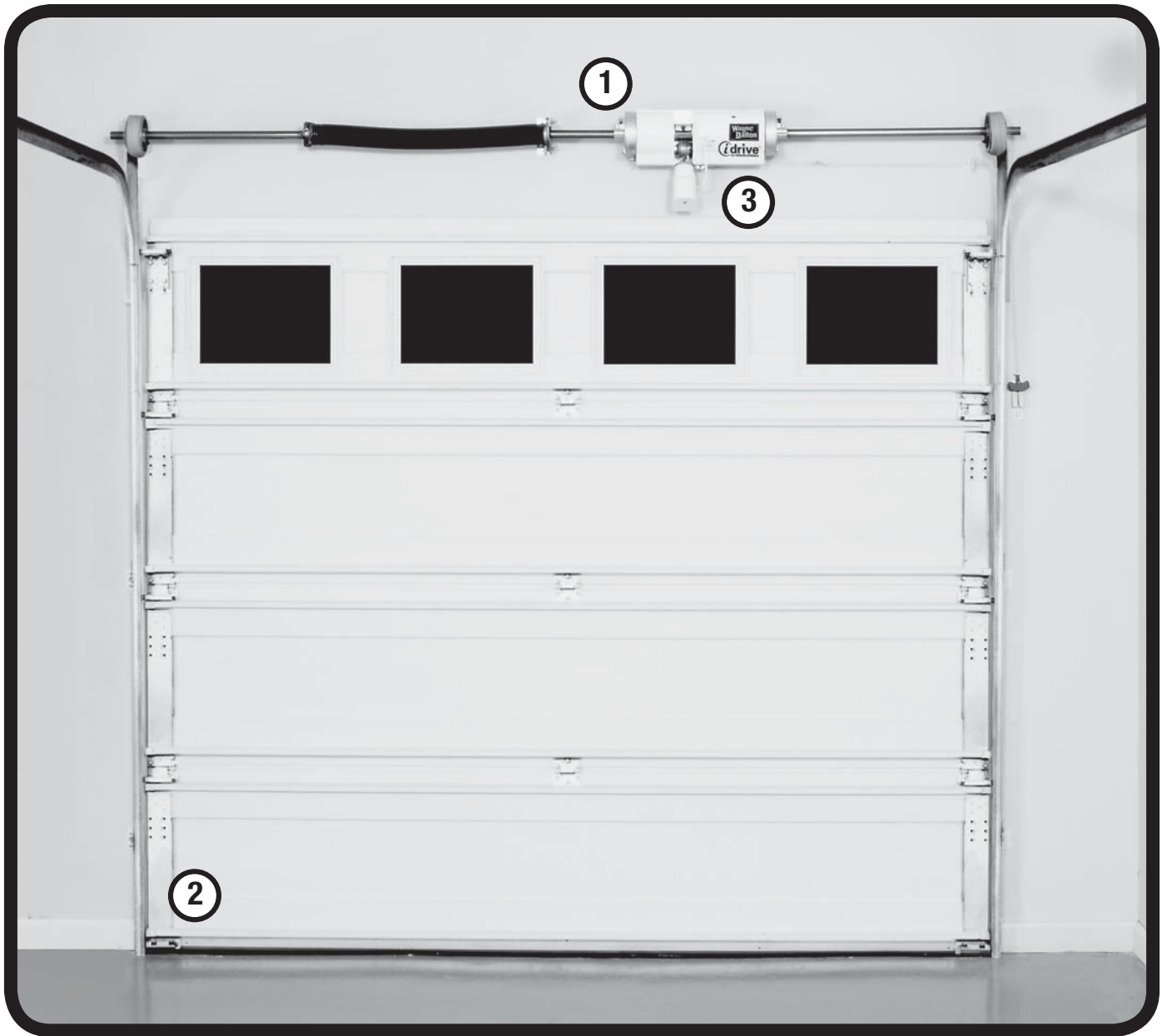


## IMPORTANT NOTICE!

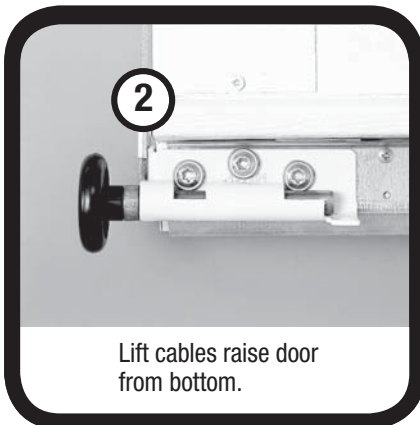
Read the enclosed instructions carefully before installing/operating this garage door opener. Pay close attention to all warnings and notes. This manual **MUST** be attached to the wall in close proximity to the garage door opener.

**Wayne**<sup>®</sup>  
**Dalton**  
GARAGE DOORS & OPENERS

# HOW idrive WORKS



idrive® mounts to the counterbalance above door.



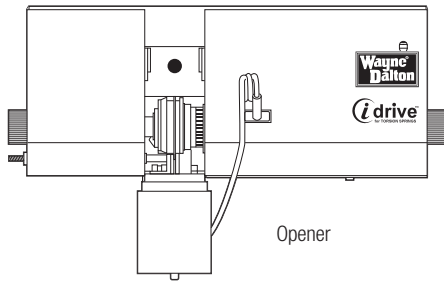
Lift cables raise door from bottom.



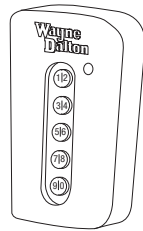
Security arm manually locks closed door.

**MOUNTS ON THE WALL INSTEAD OF CLUTTERING THE CEILING**

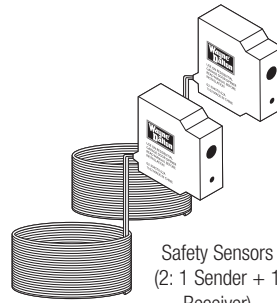
# Package Contents



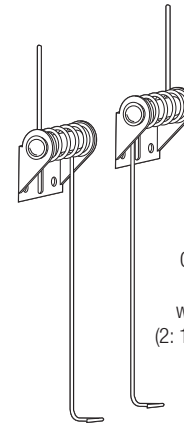
Opener



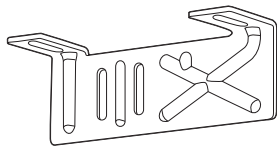
5 Button Wireless Keyless Entry



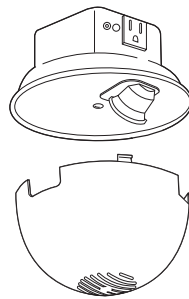
Safety Sensors (2: 1 Sender + 1 Receiver)



Cable Keeper Assemblies with Hardware (2: 1 Right + 1 Left)



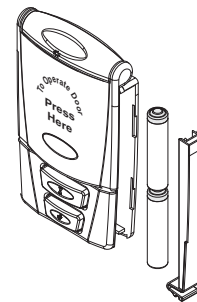
Mounting Bracket



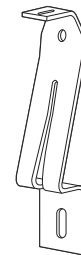
Security Light with Diffuser



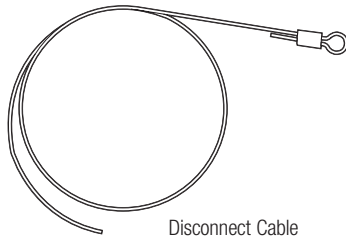
Owner's Manual



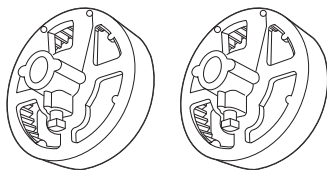
Wall Station



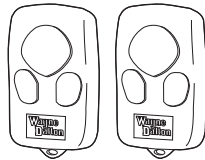
Disconnect Handle Bracket



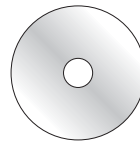
Disconnect Cable



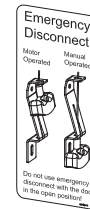
Gear Assemblies (2)



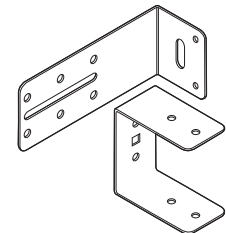
Keychain/Visor Transmitter (2)



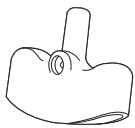
Installation DVD



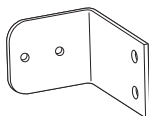
Emergency Disconnect Label



Safety Sensor Bracket (2)



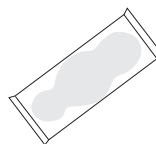
Disconnect Handle



Disconnect Cable Guide Bracket



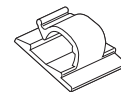
Entrapment Label



Grease Packet



Power Cord Clips (4)



Sensor Wire Clip



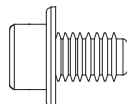
"S" Hook



Insulated Staples (12)



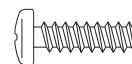
5/16-18 Nut (2)



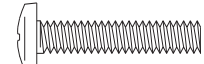
1/4-20 x 3/8" Self Tapping Screws (4)



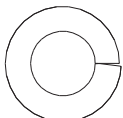
#6-25 x 1/4" Self Tapping Screws (2)



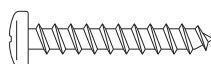
#6-20 x 1/2" Plastic fast Screws (1)



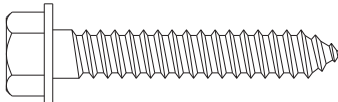
#6-32 x 3/4" Phillips Pan Head Screw (1)



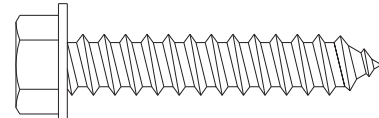
5/16 Lock Washer (2)



#6 x 7/8" Phillips Pan Head Screws (4)



1/4 x 1-1/2" Hex Head Lag Screws (4)



5/16 x 1-5/8" Hex Head Lag Screws (2)

You can reach us Toll Free at **1-888-827-3667** for Consumer Assistance or online at **www.wayne-dalton.com**

**Please Do Not Return This Product To The Store.** Call Us Directly! Our Trained Technicians Will Answer Your Questions and/or Ship Any Parts You May Need

## **PRE-INSTALLATION INSPECTION OF YOUR GARAGE DOOR** **PRIOR TO IDRIVE® FOR TORSION SPRINGS INSTALLATION**

Congratulations, you have just purchased one of the world's safest garage door openers! By design, this opener will detect obstructions and reverse rather than force the door through obstructions. **To ensure your new idrive® opener works as intended, your garage door must be installed and balanced properly.**

Before installing your garage door opener, open and close your door manually to ensure that it operates smoothly from top to bottom. A properly balanced door should not take a lot of effort to open or close by hand. The door should stay in the open and in the closed position without drifting. If a door opens fast going up, the door may need spring tension reduced. If the door drops fast going down, the door may need spring tension increased.

If the door operates properly, then proceed to your idrive® installation manual for instructions on how to install idrive® for torsion springs garage door opener.

If the operation of the door does not perform as indicated above, please contact a professional installer to adjust the door spring balance before installing idrive®.

You must contact a professional installer to make adjustments. Do not adjust torsion springs if you are not a professional installer, as springs have high energy which can cause severe or fatal injury. Visit [www.wayne-dalton.com](http://www.wayne-dalton.com) to find the location of your nearest professional dealer.

**Check out the new idrive® installation videos at [www.wayne-dalton.com](http://www.wayne-dalton.com)**

**idrive® for Torsion**

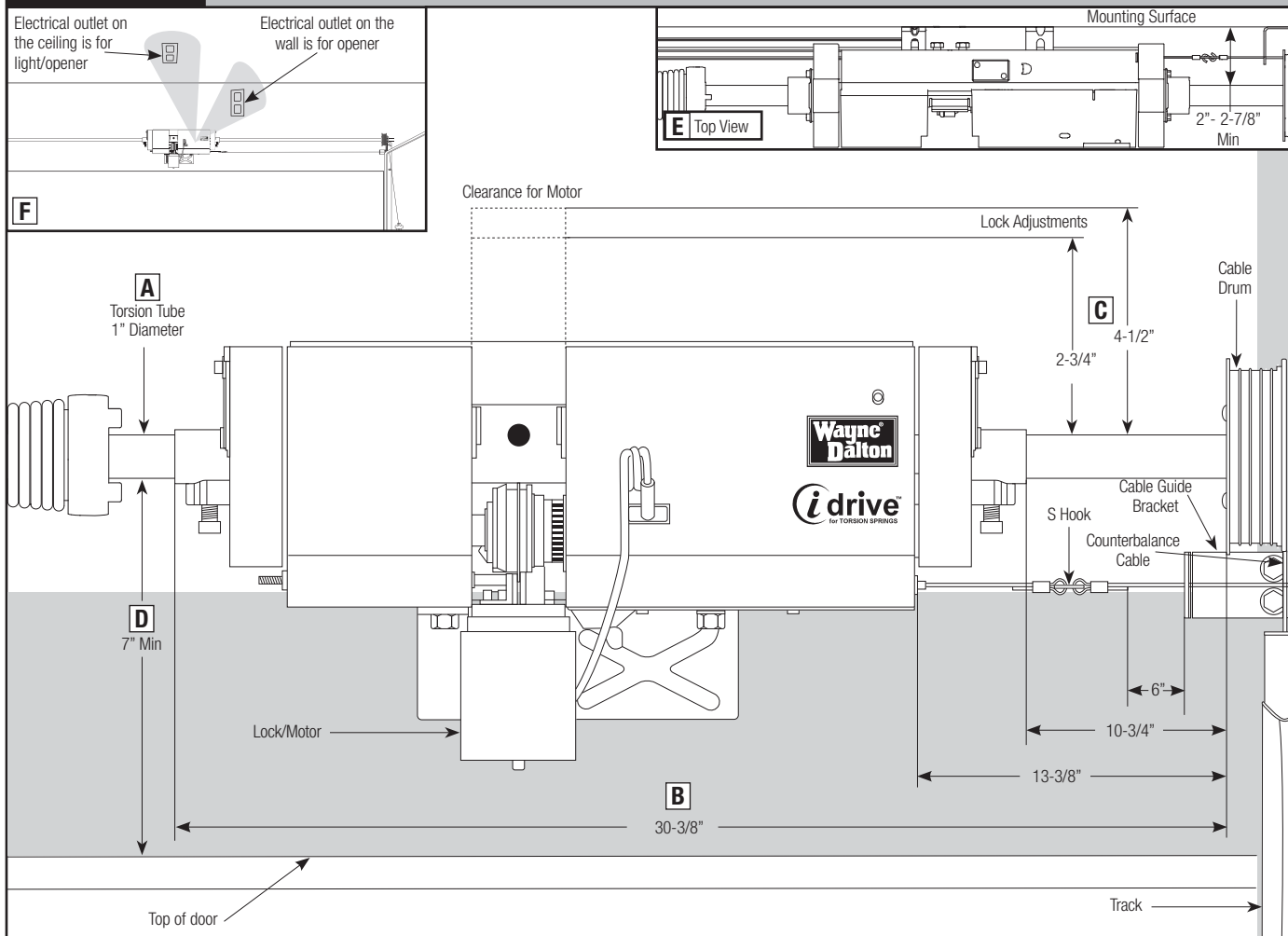
[http://www.wayne-dalton.com/idrive\\_Torsion.asp](http://www.wayne-dalton.com/idrive_Torsion.asp)

Look for this symbol. →



## Pre-Installation Inspection

**CAUTION! Do not install this Opener on your door unless the following requirements are met.**



### Pre-Installation Inspection

Before installing the torsion iDrive® opener, ensure your door system meets the following requirements. See the illustrations above as a visual aid.

**A** The torsion tube must be 1" in diameter.

**B** There must be at least 30-3/8" of clear torsion tube between the right (inside garage looking out) cable drum and end of left hand gear. When installing the opener, ensure there is at least 6" of clearance between the cable end and the cable guide bracket.

**C** The motor requires between 2-3/4" to 4-1/2" of clearance above the top of the torsion tube.

**D** There must be at least 7" of clearance between the top of the door and the bottom of the torsion tube.

**E** Required distance from the torsion tube to the header (mounting surface) must be 2" to 2-7/8".

**F** Two electrical outlets are recommended for the iDrive installation. One of these outlets needs to be located less than 6' from the operator. The second outlet, for the light, can be located at a position of your choice.

If in the event that an electrical outlet is not located within 6' of the operator, contact a local electrician for further options.

Your door must not exceed 8' in height.

The torsion iDrive® opener will only work on sectional doors. Do not install on one piece doors.

Your garage door must be properly balanced (door must not be heavy to lift, nor lift by itself). Maximum door weight (without spring tension) must not exceed 400 lbs.

The torsion iDrive® will not work on low headroom systems.

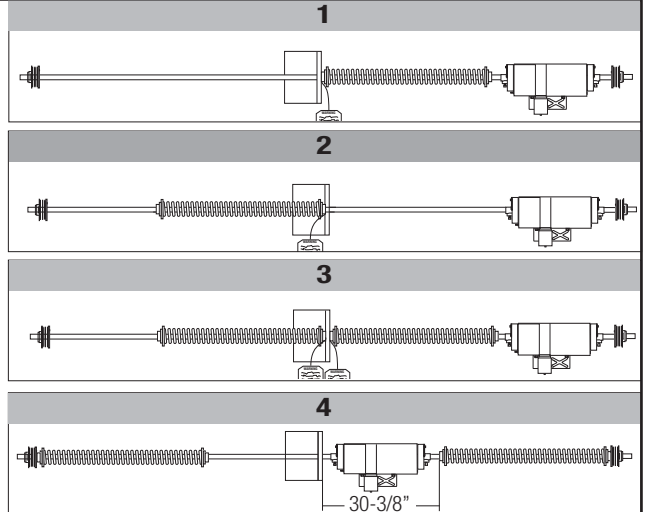
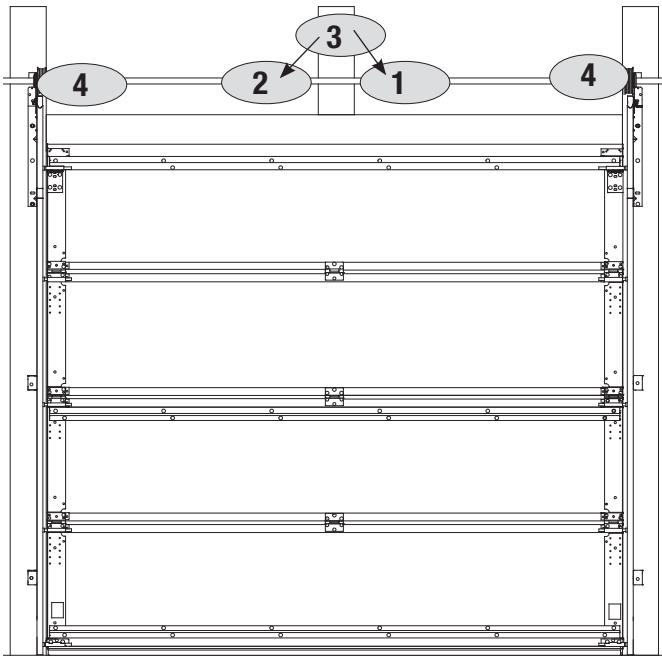
Horizontal tracks should be pitched 1" above level at rear of track.

Ensure that spring(s) warning tag is attached to torsion spring assembly. If no warning tag is present, contact wayne-dalton for a free copy of the warning tag.

## Pre-Installation Inspection

**Note:** If your torsion spring does not match one of the following illustration you may not install this idrive.

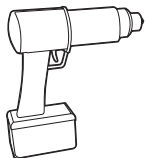
### Possible Spring Locations



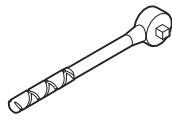
**NOTE:** Option 4 depicts an EZ-Set™ torsion spring system. EZ-Set™ torsion spring system is a registered trademark of Clopay® Building Products - a Griffon Company.

**NOTE:** When installing torsion idrive® on EZ-Set™ torsion spring system, there must be at least 30-3/8" of clear torsion tube between center bearing bracket and right hand torsion spring.

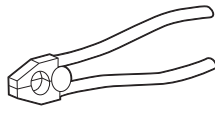
## Tools Needed



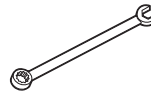
Power Drill



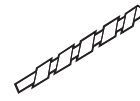
Ratchet Wrench



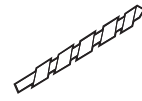
Pliers/Wire Cutters



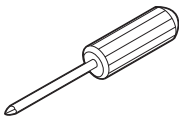
3/8" Wrench



3/32" Drill Bit



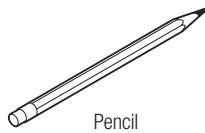
3/16" Drill Bit



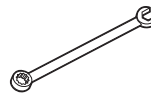
Phillips Head Screwdriver



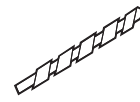
7/16" Socket



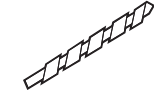
Pencil



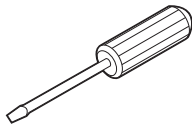
7/16" Wrench



1/8" Drill Bit



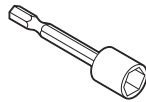
5/64" Drill Bit



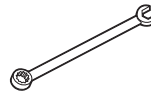
Flat Tip Screwdriver



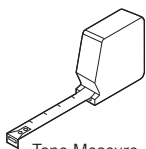
1/2" Socket



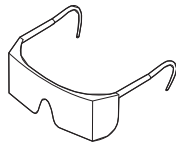
7/16" Socket Driver



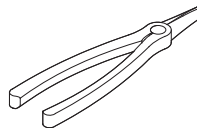
1/2" Wrench



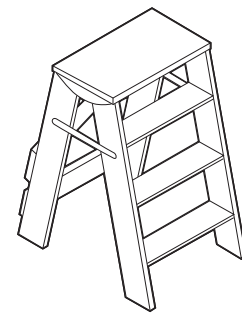
Tape Measure



Safety Glasses



Needle Nose Pliers



Step Ladder

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**Please Do Not Return This Product To The Store.** Call Us Directly! Our Trained Technicians Will Answer Your Questions and/or Ship Any Parts You May Need

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Pre-Operation Installation.....	17-25.
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Troubleshooting.....	32-33.
Customer Service Number .....	34.
Warranty .....	see back cover.

### Definition of key words used in this manual:

#### **WARNING**

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN SEVERE OR FATAL INJURY.

**CAUTION:** PROPERTY DAMAGE OR INJURY CAN RESULT FROM FAILURE TO FOLLOW INSTRUCTIONS.

**IMPORTANT:** REQUIRED STEP FOR SAFE AND PROPER DOOR OPERATION.

**NOTE:** Information assuring proper installation of the door.

## **WARNING** INCORRECT INSTALLATION CAN LEAD TO SEVERE OR FATAL INJURY. FOLLOW THESE INSTRUCTIONS CAREFULLY.

### IMPORTANT SAFETY INSTRUCTIONS

1. **READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.**
2. Do not connect the opener to electrical power until instructed to do so.
3. Install the entrapment warning label next to the wall station in a prominent location. Install the emergency disconnect label next to the emergency disconnect.
4. Remove all ropes and remove or make inoperative in the unlocked position, all locks connected to the garage door before installing the opener.
5. Do not wear rings, watches or loose clothing when installing or servicing a garage door system.
6. It is important that you install all the components supplied with the idrive opener, i.e., wall stations, safety sensors, etc. Use of parts not supplied by Wayne-Dalton Corp. may cause the opener to malfunction and create unsafe conditions.
7. Wear safety glasses for eye protection when installing or servicing the opener or door.
8. Install opener on a properly balanced and operating garage door. Have a qualified service person make adjustments/repairs to cables, spring assemblies, and other hardware before installing the opener. An improperly balanced door could cause severe injury.
9. Where possible, install the opener seven feet or more above the floor. Mount the emergency disconnect six feet above the floor.
10. Locate the wall station: (a) within sight of door, (b) at a minimum height of five feet, so small children cannot reach it, and (c) away from all moving parts of the door.
11. After installing the opener, the door **MUST** reverse when it contacts a 1- 1/2" high object (or 2 x 4 board laid flat) on the floor. The door **MUST** also reverse when a 6" high object is placed on the floor in line with safety sensors.
12. Installation and wiring must comply with local building and electrical codes. Connect the power cord to a properly grounded outlet. Do not remove the ground pin from power cord.

**After installation is complete, fasten this manual near garage door. Perform Monthly obstruction tests and maintenance as recommended. See pages 23 and 31.**

# 1

## Preparing for Installation

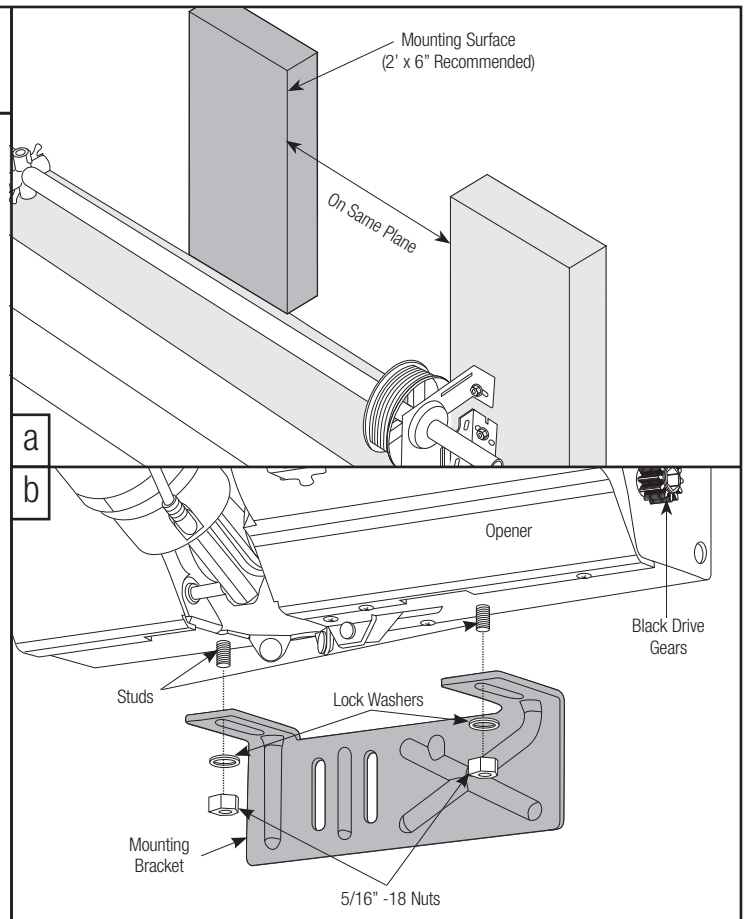
Tools Needed:  
Step Ladder

- a. If the header does not provide a mounting surface for the opener, a proper mounting surface will need to be installed.

Securely fasten a wood mounting surface (2" X 6" recommended) to the building structure. Make sure the surface is flush with the header and properly positioned to allow mounting the opener on it.

- b. Position mounting bracket over threaded studs and hand tighten with the (2) 5/16" X 18 hex nuts and (2) lock washers.

**NOTE:** Black drive gears are factory set. **Do not attempt to turn these gears.**



# 2

## Installing Gear Assemblies

Tools Needed:  
Step Ladder  
3/8" Wrench

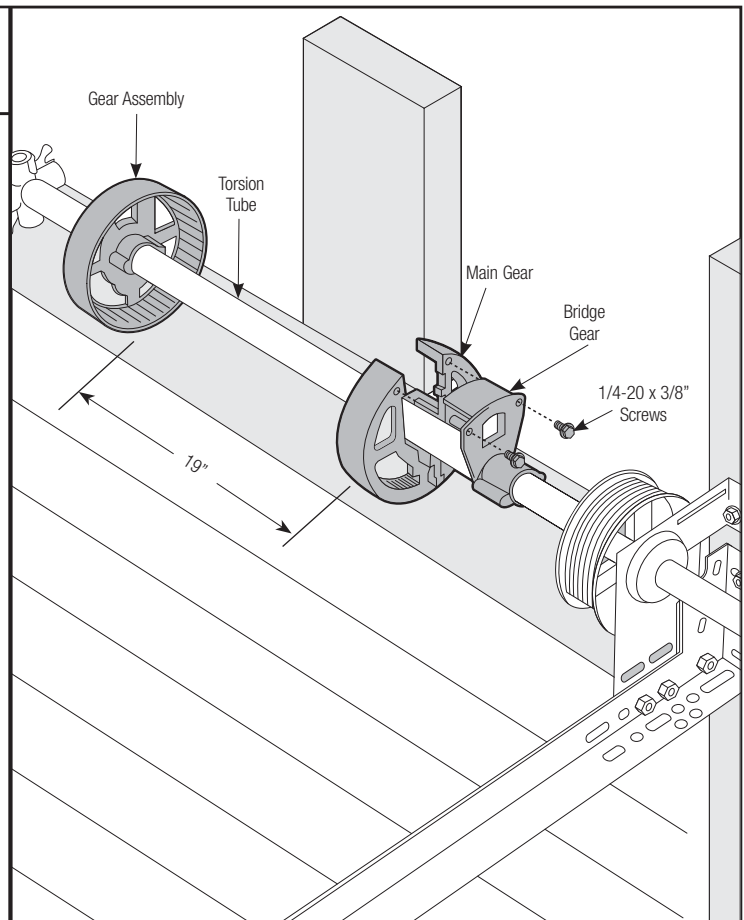
Clean torsion tube of dirt and loose rust prior to installing the gear assemblies.

Remove the bridge gears from the gear Assemblies.

Place the main gear onto the torsion Tube. Orient the bridge gear so it can slide into position surrounding the torsion tube. Ensure both pieces fit together properly.

Secure the bridge gear to the main gear with the (2) 1/4-20 x 3/8" screws.

Repeat procedure with second gear assembly. Slide the gear assemblies 19" apart. See illustration for proper orientation of the gear assemblies.



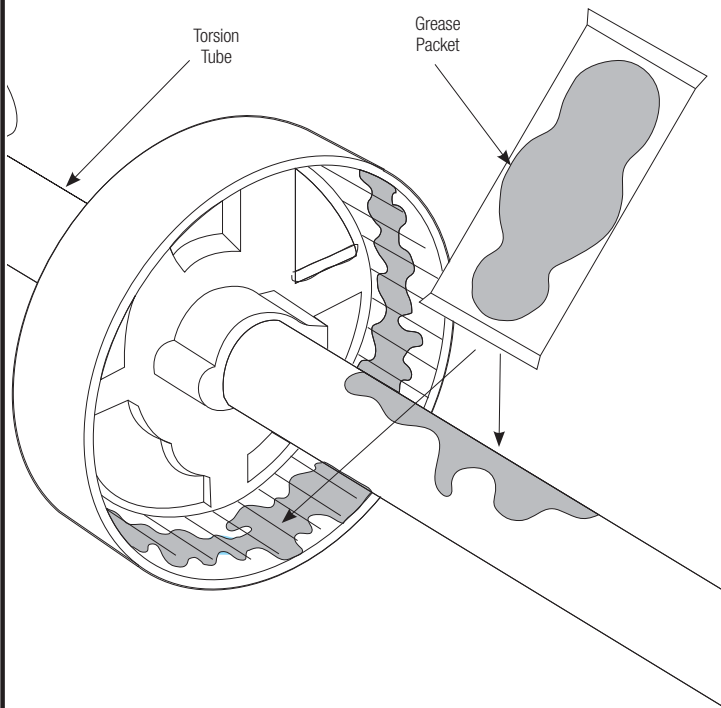


# 3

## Lubricating Gear Assemblies

Tools Needed:  
Step Ladder

Lubricate both right hand and left hand gear assembly teeth with the grease provided.  
  
Apply grease along the torsion tube where the opener will mount.

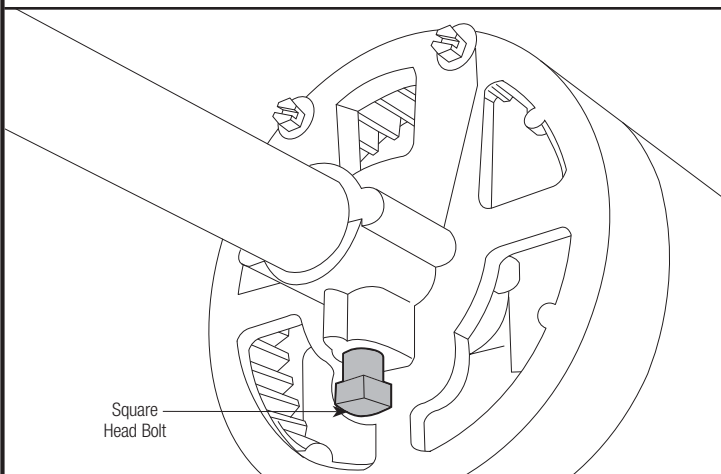
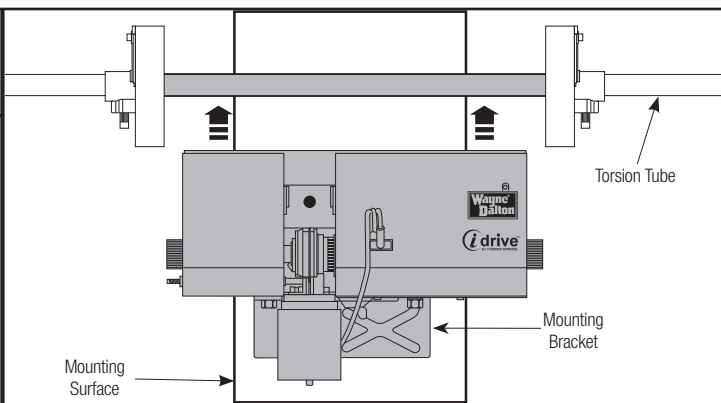


# 4

## Installing Opener

Tools Needed:  
Step Ladder

Place the opener over the torsion tube and between the two gear assemblies.  
  
Center the mounting bracket on the mounting surface.  
  
To ease installation, position the gear assemblies so the 3/8" square head bolts are accessible from the front.



# 5

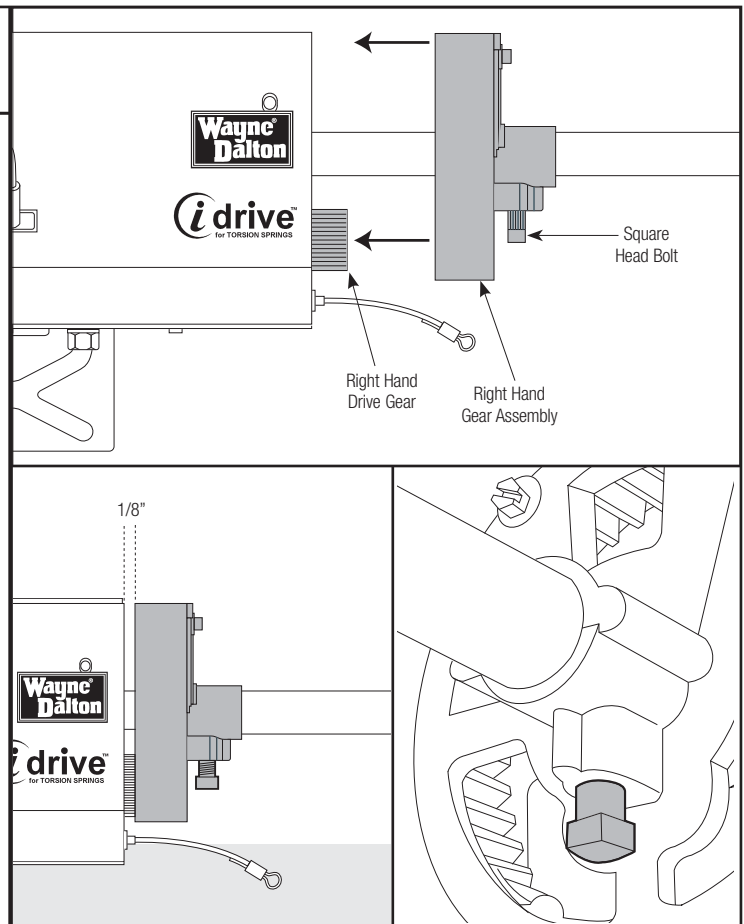
## Positioning Opener

Tools Needed:  
Step Ladder  
3/8" Wrench

Lift the opener slightly and slide the right hand gear assembly over so the right hand drive gear meshes with and rests on the teeth of the right hand gear assembly. Position gear assembly so it is 1/8" from the opener. Hand tighten square head bolt.

Repeat for left hand gear assembly. Left hand gear assembly square head bolt should be hand tightened, then with a wrench tighten 1 to 1 - 1/4 turns to secure gear assembly. Do not tighten right hand gear assembly at this time.

**NOTE:** Black drive gears are factory preset. **Do not attempt to turn these gears.**



# 6

## Positioning Mounting Bracket

Tools Needed:  
Step Ladder  
1/2" Socket  
Ratchet Wrench

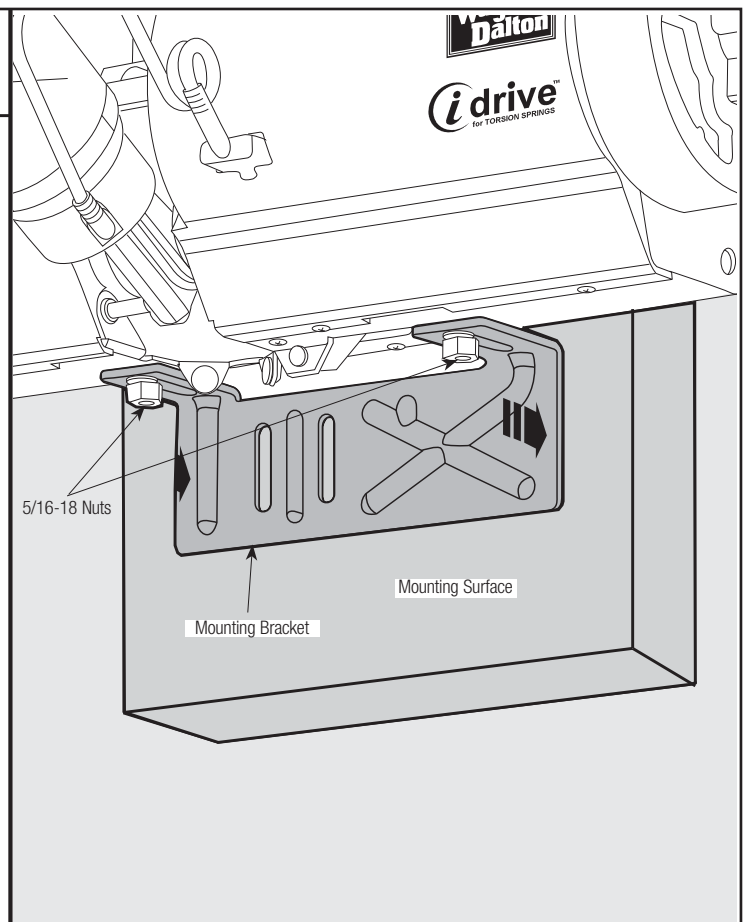
### **⚠ WARNING**

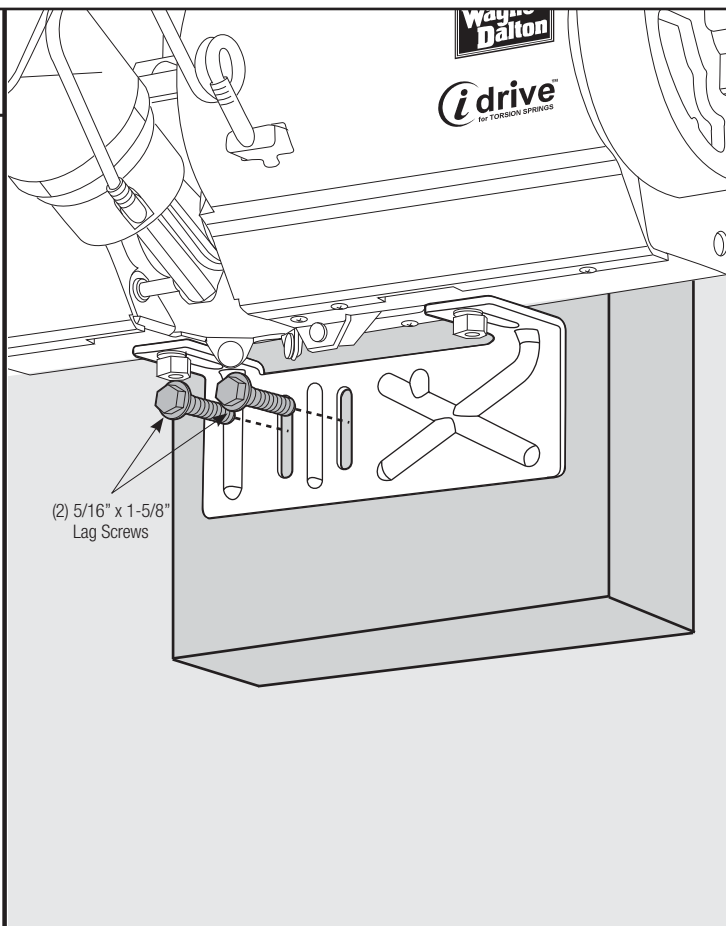
LOOSENING OR REMOVING ANY LAG SCREWS, OR OTHER FASTENERS FROM THE CENTER SPRING BRACKET ASSEMBLY COULD RESULT IN SEVERE OR FATAL INJURY

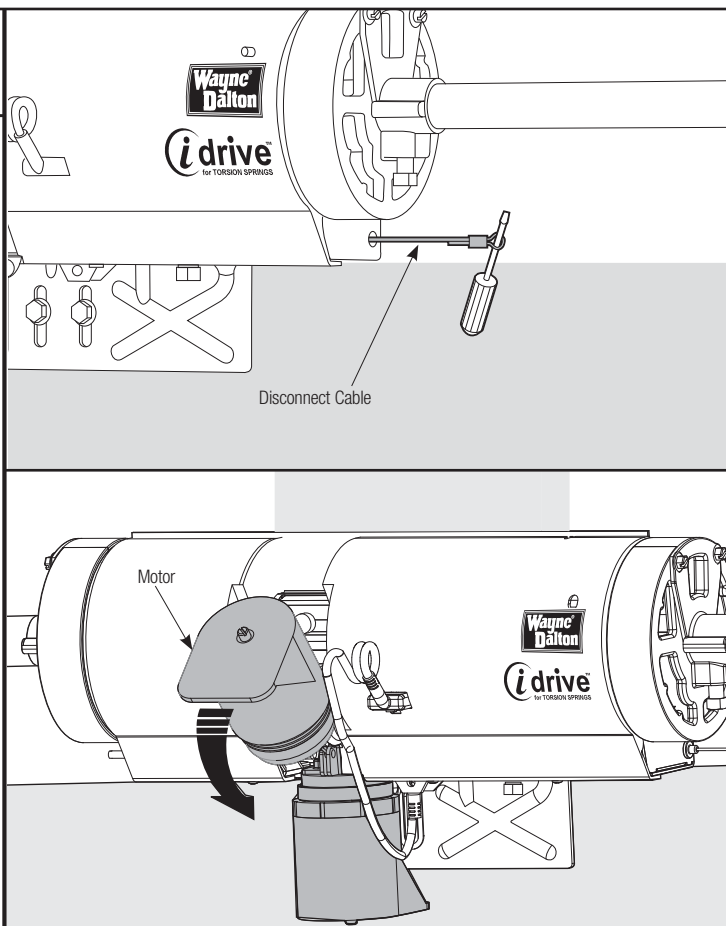
### **⚠ WARNING**

DO NOT MAKE ANY ADJUSTMENTS TO THE TORSION SPRING OR ANY OF ITS COMPONENTS, BECAUSE THEY ARE UNDER EXTREME SPRING TENSION AT ALL TIMES AND CAN CAUSE SEVERE OR FATAL INJURY.

Adjust the mounting bracket so it fits flush on the header. Tighten the 5/16-18 nuts on the threaded studs located on the bottom of the opener.



<h1>7</h1>	<h2>Securing Mounting Bracket</h2>	
<p>Tools Needed: Step Ladder Drill with 3/16" bit 7/16" Socket Driver</p>	<p>Secure the mounting bracket to the mounting surface by first pre-drilling the lag screw locations with a 3/16" diameter bit and fastening with (2) 5/16" x 1-5/8" lag screws.</p>	

<h1>8</h1>	<h2>Preparing Disconnect Cable</h2>	
<p>Tools Needed: Step Ladder Screwdriver (any type)</p>	<p>Insert a screwdriver through the cable loop, to use as a handle when pulling disconnect cable.</p> <p>Pull out the disconnect cable located at the lower right hand side of the opener.</p> <p><b>NOTE:</b> The disconnect cable must be pulled straight out. The disconnect cable cannot be pulled at an angle.</p> <p>While holding the disconnect cable rotate the motor into the down position.</p> <p>Release the disconnect cable to re-engage the motor assembly.</p> <p><b>NOTE:</b> Motor may partly pivot upwards due to springs.</p>	

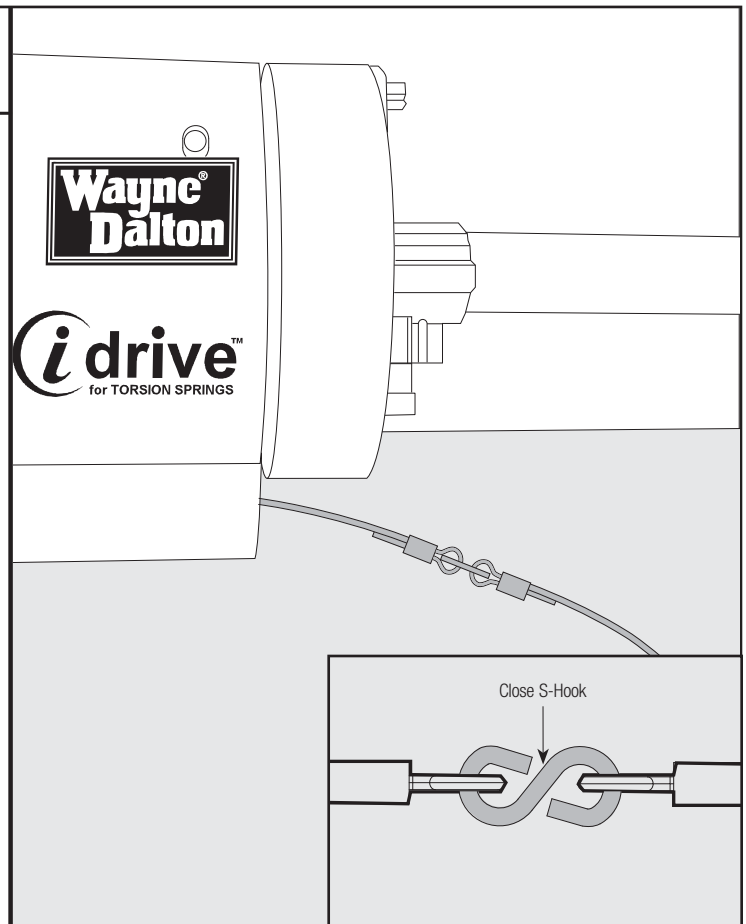
# 9

## Attaching Disconnect Cables

Tools Needed:  
Step Ladder  
Pliers

Attach the loose disconnect cable, from the hardware kit, to the attached disconnect cable using the "S" Hook.

Close both ends of the "S" Hook to lock the cables together.



# 10

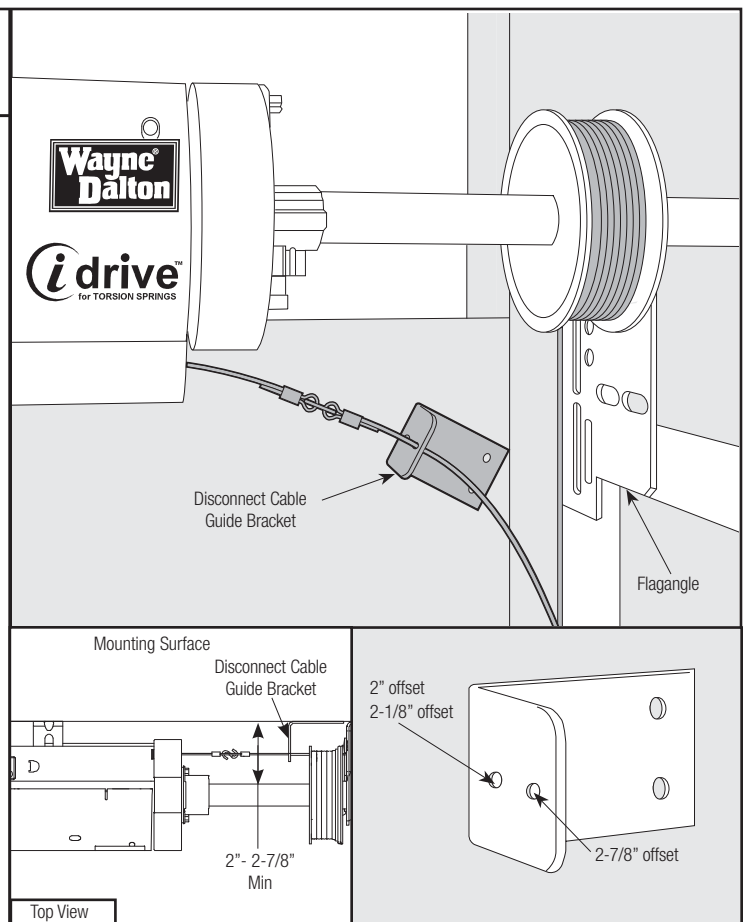
## Threading Disconnect Cable Guide Bracket

Tools Needed:  
Step Ladder

Thread the disconnect cable guide bracket onto the disconnect cable making sure the proper hole is used.

- For 2" to 2-1/8" torsion tube to header offset, use the hole closest to the flange.
- For 2-7/8" torsion tube to header offset, use the hole farthest from the flange.

**NOTE:** Depending on the type of door hardware present, it may be necessary to drill a hole in the right side flagangle and/or end bearing bracket for routing the disconnect cable.



# 11

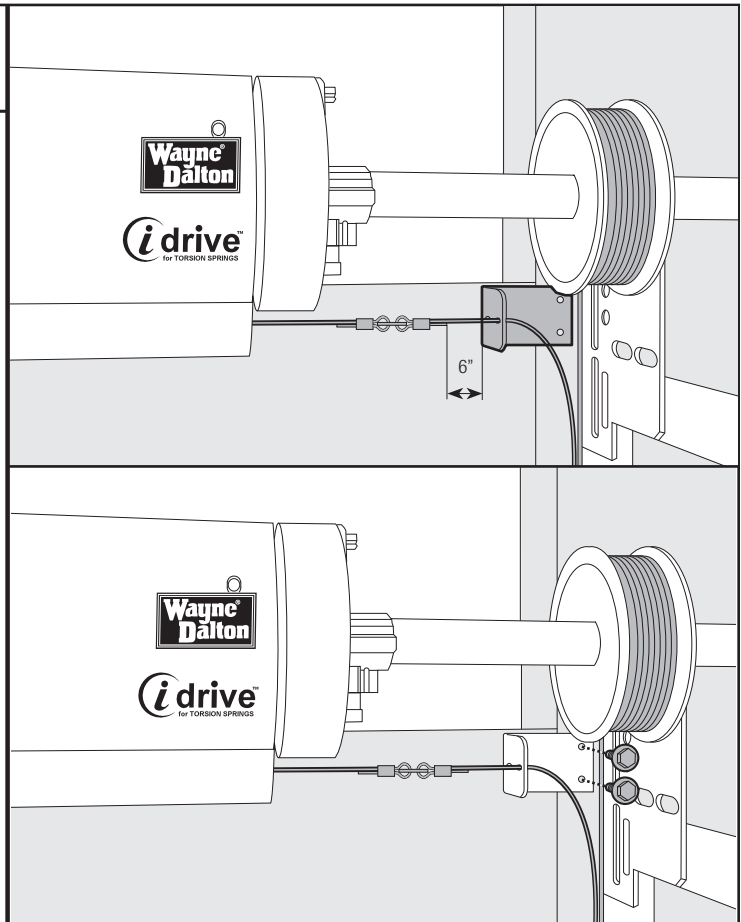
## Attaching Disconnect Cable Guide Bracket

Tools Needed:  
 Step Ladder  
 Drill with 1/8" bit  
 7/16" Socket Driver  
 Tape Measure

Position the flange of the disconnect cable guide bracket just inside the cable drum. Align the disconnect cable so it remains parallel to the torsion tube. When installing opener, ensure there is at least 6" of clearance between the cable end and the cable guide bracket.

**IMPORTANT!** If the disconnect cable is not aligned parallel to the torsion tube, the disconnect operation will not function properly.

Once the disconnect cable guide bracket is aligned, drill pilot holes using 1/8" drill bit. Secure the bracket to the jamb, using (2) 1/4 x 1-1/2" lag screws.



# 12

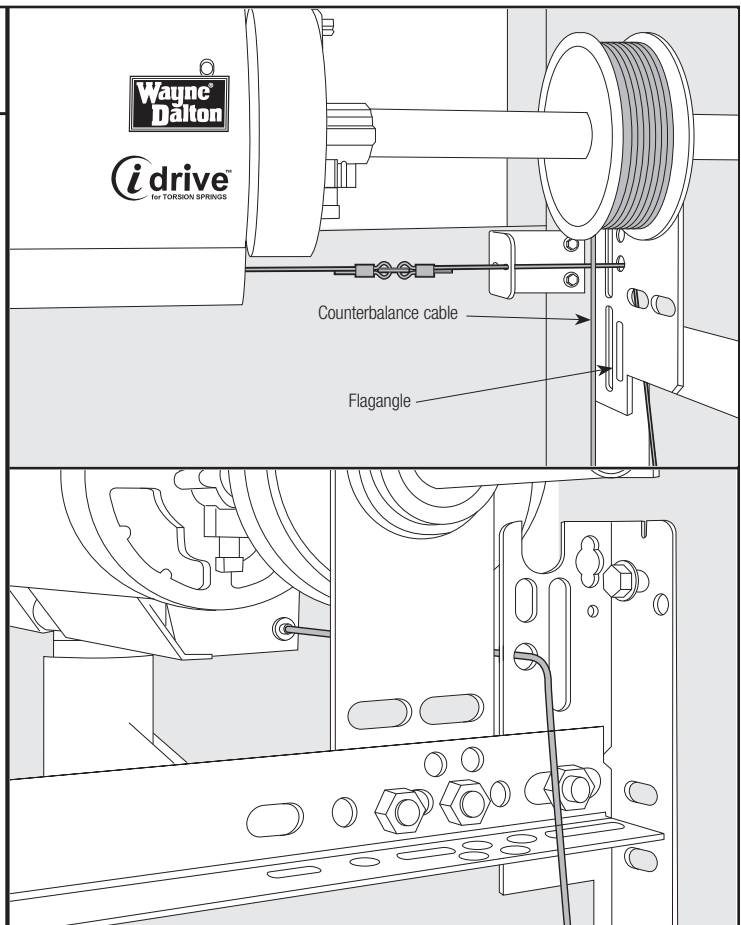
## Routing the Disconnect Cable

Tools Needed:  
 Step Ladder  
 Drill with 1/8" bit

Route the disconnect cable behind the counterbalance cable and through a convenient hole or slot in the flagangle. Ensure the disconnect cable does not rub against counterbalance cable.

If there isn't a hole available, it may be necessary to drill a 1/8" diameter hole in the flagangle and/or end bearing bracket.

**IMPORTANT!** Verify the disconnect cable is between the counterbalance cable and the header/jambs. Route the disconnect cable through flagangle so the disconnect cable hangs outside of the track.

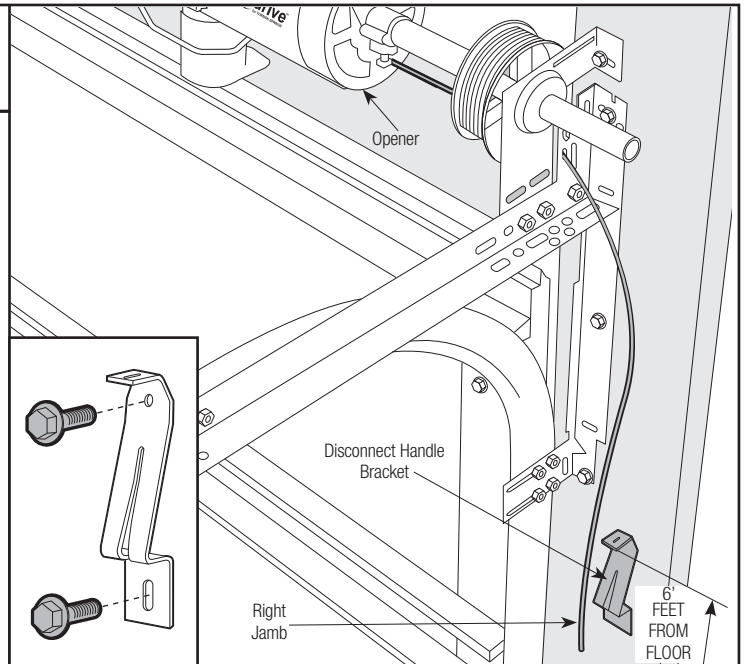


# 13

## Mounting Disconnect Handle Bracket

Tools Needed:  
Pencil  
Tape measure  
Drill with 1/8" bit  
7/16" Socket Driver

Mark a location on the right jamb, 6 feet above the floor to mount the disconnect handle bracket. Align top of the bracket with the mark. Drill pilot holes using 1/8" drill bit. Fasten bracket to the jamb with (2) 1/4 x 1-1/2" lag screws.



# 14

## Attaching Disconnect Handle

Tools Needed:  
Phillips head screwdriver  
Wire cutters

Start the #6-20 x 1/2" Screw into the handle. Thread the disconnect cable through the top of the handle bracket and then the handle. Locate the handle in upper position of handle bracket.

Remove all cable slack between the opener and the top of the handle bracket. Pull the disconnect cable only enough to remove the cable's slack (**pulling the cable more could cause opener to disconnect from the torsion tube**).

**NOTE:** If motor disconnects from torsion tube refer back to step 8.

Tighten #6-20 x 1/2" screw into the handle until snug, and then tighten screw an additional 1 to 1-1/2 turns to secure cable to handle. Trim off excess cable from bottom of the handle.

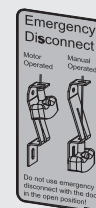
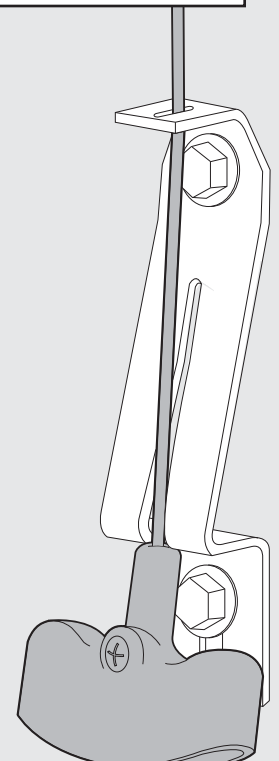
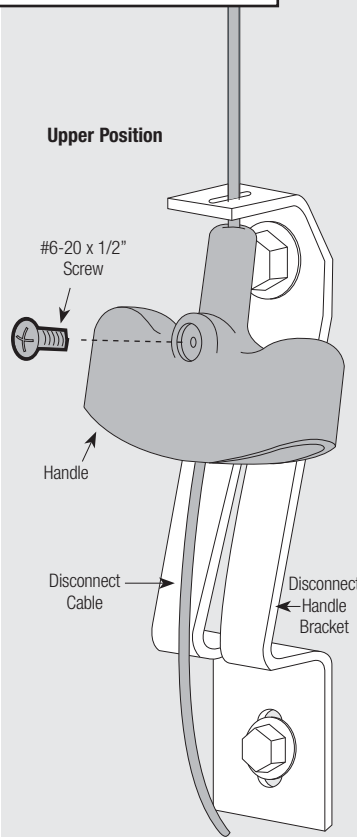
Apply emergency disconnect label next to the disconnect handle bracket. Use mechanical fasteners if adhesive will not adhere.

**Note:** Pulling the disconnect handle down and hooking it to the bottom of the disconnect handle bracket will place the door in manual operated position. When releasing the disconnect handle from the manual operated position to the motor operated position, the disconnect cable will be slacked. This is normal. When the opener is activated the slack will be taken up.

### Motor operated position

### Manual operated position

#### Upper Position



Emergency Disconnect Label

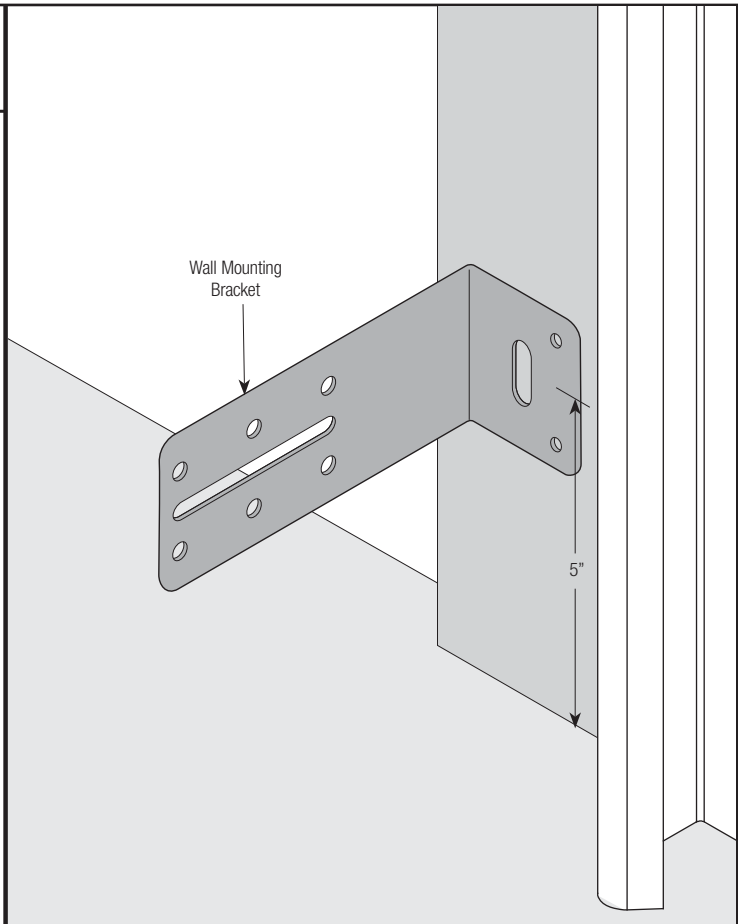
# 15

## Positioning Safety Sensor Wall Mounting Brackets

Tools Needed:  
Pencil  
Tape measure

Select and mark with a pencil, a mounting position no more than 5 inches above the floor to center line of wall mounting bracket. The safety sensors should be mounted as close to the door track or inside edge of the door as possible to offer maximum entrapment protection. It is very important that both wall brackets be mounted at the same height for proper alignment.

Use Steps 15-17 for installing sensors on both sides of the garage door.



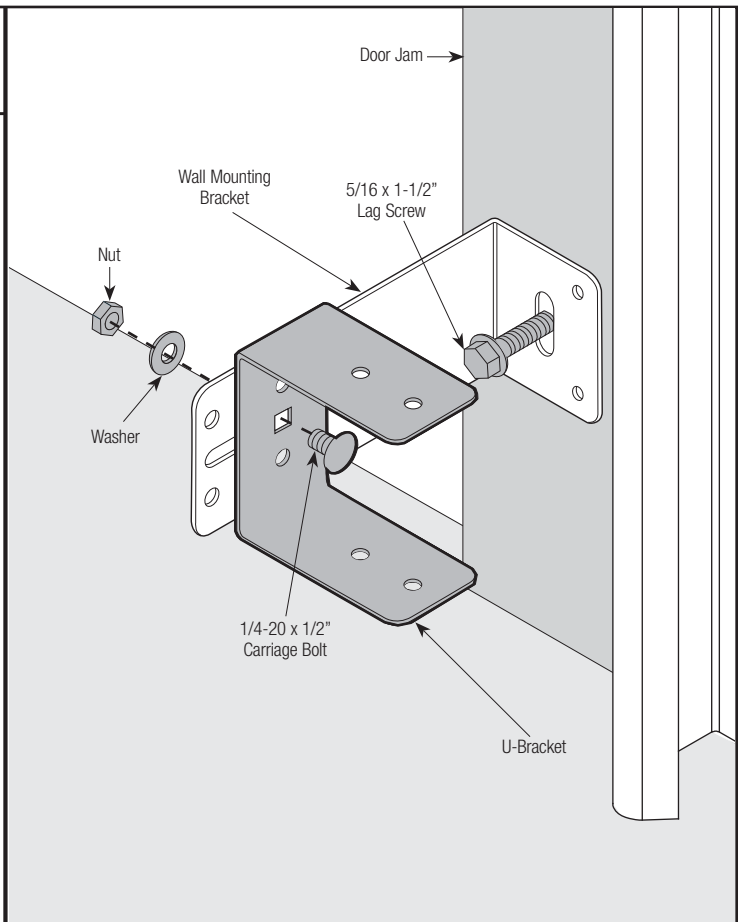
# 16

## Attaching Safety Sensor Wall Mounting Brackets

Tools Needed:  
Drill with 3/16" bit  
7/16" Socket Driver  
7/16" Wrench

Drill pilot holes, using a 3/16" drill bit. Using two 5/16 x 1-1/2" lag screw, permanently mount the wall mounting brackets to both door jambs. In some installations it may be necessary to attach a wooden spacer to the wall to achieve the required alignment.

Attach the "U" brackets to the wall mounting brackets with 1/4-20 x 1/2" carriage bolts, washers and nuts. Insert the bolts from the inside of the "U" bracket and hand tighten.



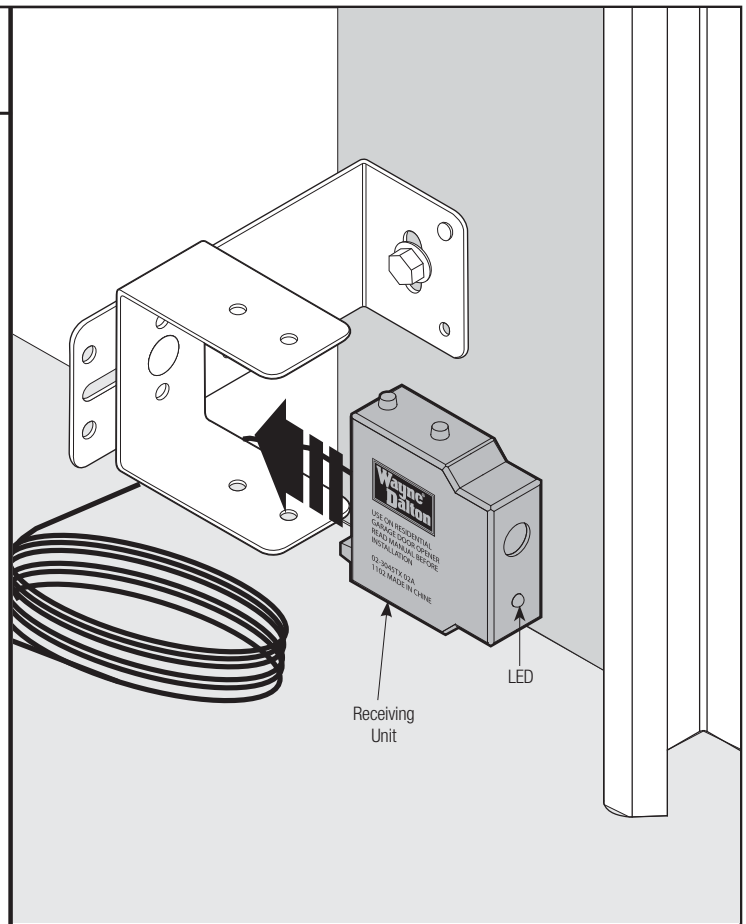
# 17

## Attaching Safety Sensors

Tools Needed:  
None

Attach the sending and receiving safety sensors to the "U" brackets by inserting all three tabs into the respective holes.

**IMPORTANT!** Identify which side of the garage door is exposed to the most sunlight. Mount the sending unit (unit without LED) on the side which is exposed to the most sun. Sunlight may affect the safety sensors, this orientation will help reduce the effect.



# 18

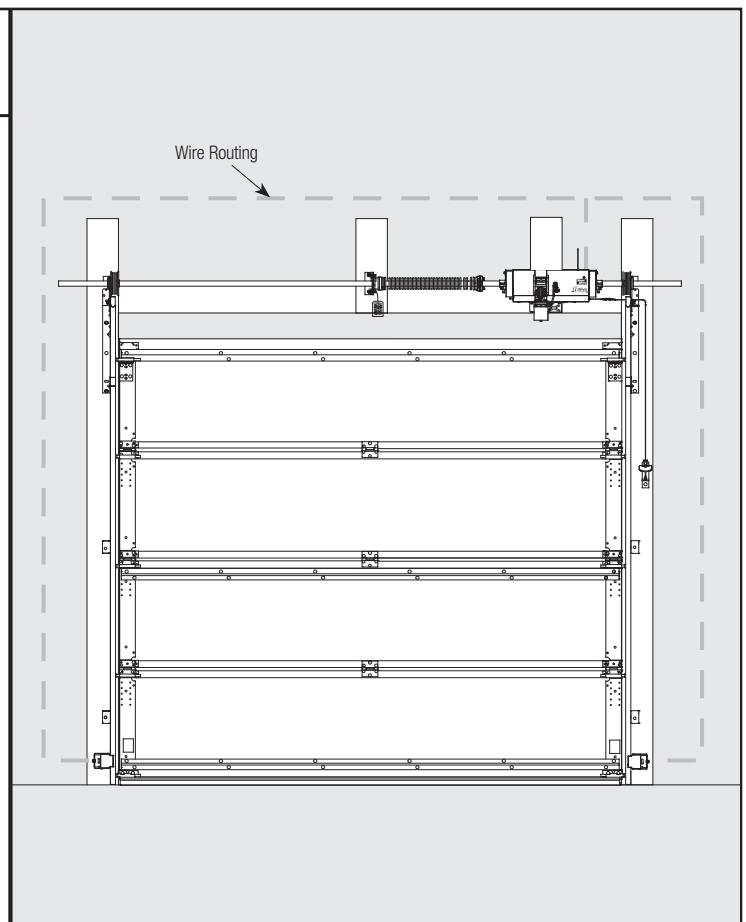
## Routing Safety Sensor Wires

Tools Needed:  
Step Ladder  
Hammer

Uncoil wires from safety sensors and route wires up garage wall and above torsion tube towards the right side of the opener.

Route wires behind torsion tube and tack wires in place with insulated staples.

**NOTE:** If wires must be lengthened or spliced use wire nuts or suitable connectors.





# 19

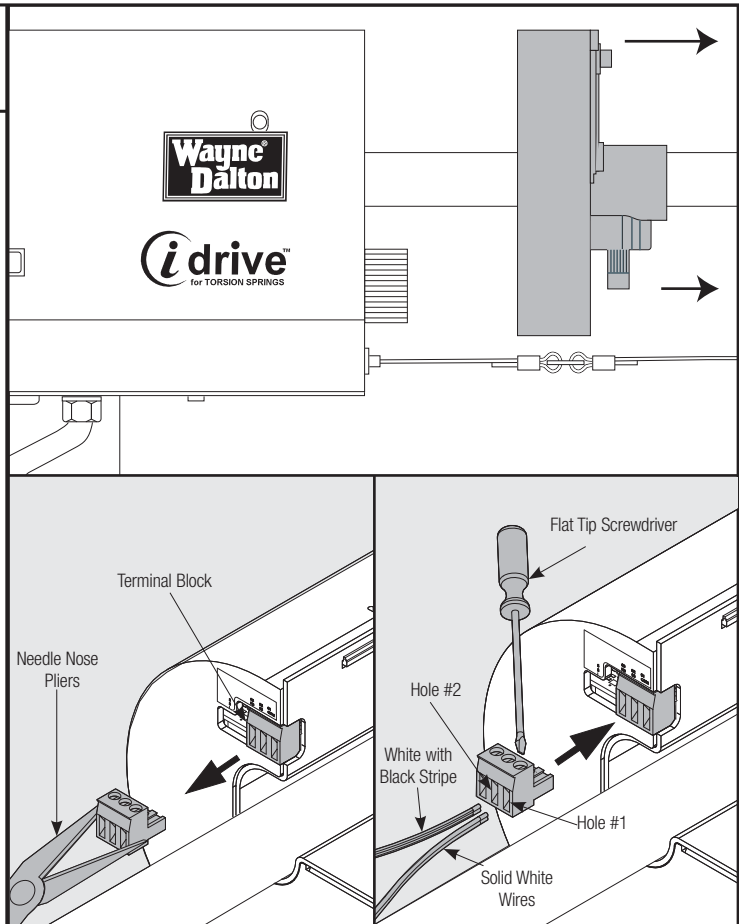
## Connecting Safety Sensor Wires to Opener

Tools Needed:  
 Step Ladder  
 Wire cutters  
 Flat Tip Screwdriver  
 Needle Nose Pliers

Expose the terminal block by sliding the right hand gear assembly to the right.

Using a pair of needle nose pliers, gently pull terminal block from right hand side of opener. Separate wire ends and strip about 1/2" of the insulation off each of the wire ends.

Using the flat tip screwdriver to loosen the screw above hole #1 of the terminal block. Insert both sender and receiver solid white wires into hole #1. Tighten the screw above hole #1 till both sender and receiver solid white wires are secured tightly. Insert both sender and receiver wires (white with black stripe) into hole #2 by the same process. After wires are secured in terminal block, snap terminal block back in right hand side of opener.



# 20

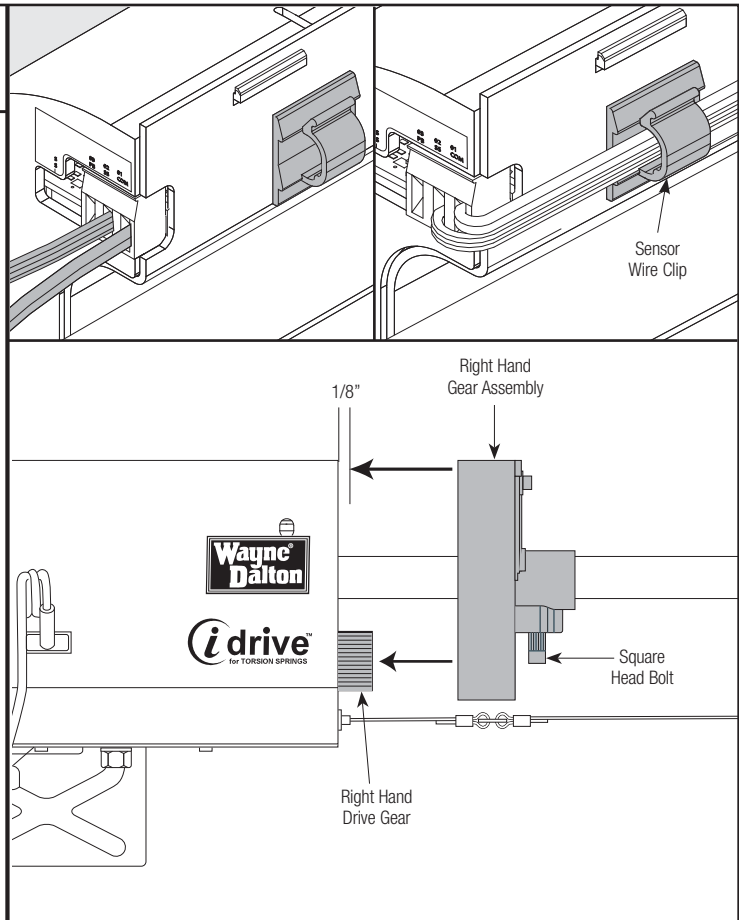
## Organizing Safety Sensor Sender and Receiver Wires

Tools Needed:  
 Step Ladder  
 3/8" Wrench

**IMPORTANT!** Keep safety sensor wires away from moving parts.

Keep the safety sensor wires straight and organized by wrapping them around the backside of the opener and securing them using the sensor wire clip (adhesive backed). (Ensure the surface the wire clip is attached to is clean and oil free).

Position right hand gear assembly so it is 1/8" from the opener. Right hand gear assembly square head bolt should be hand tightened, then with a wrench tighten 1 to 1 - 1/4 turns to secure gear assembly.



# 21

## Positioning Wall Station

Tools Needed:

Tape Measure

Drill

3/32" Drill Bit

3/16" Drill Bit  
(For Anchors)

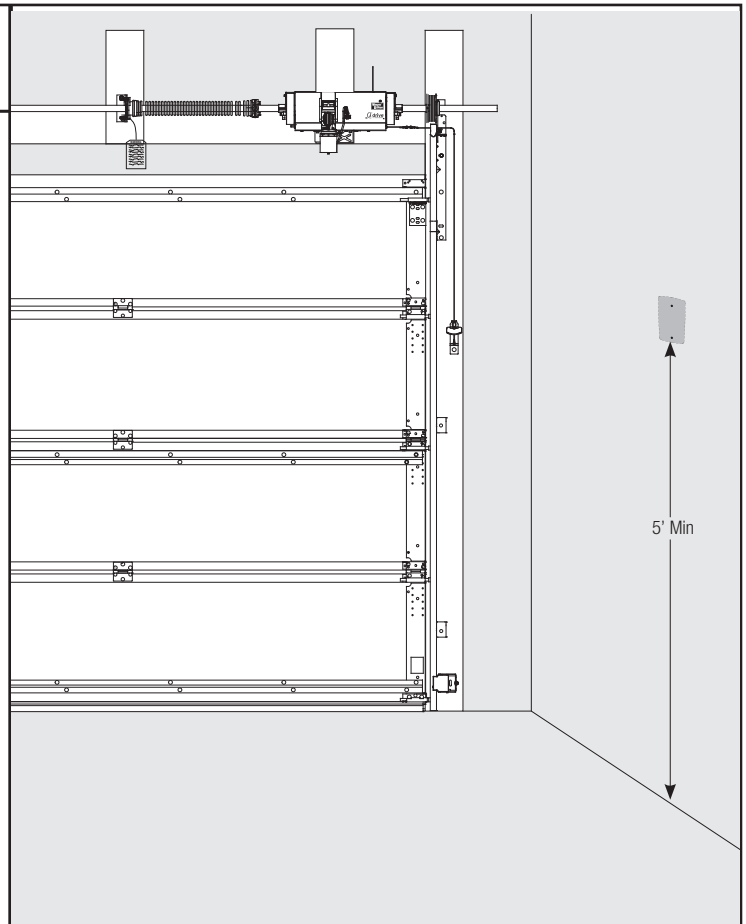
### **WARNING**

TO PREVENT POSSIBLE INJURY, INSTALL ALL WALL CONTROLS OUT OF THE REACH OF CHILDREN AND IN A LOCATION WHERE THE OPENER CAN BE SAFELY ACTIVATED, WHILE KEEPING DOOR IN SIGHT. DO NOT MOUNT THE CONTROLS NEAR OR NEXT TO GARAGE DOOR.

Locate a convenient place to mount wall station. To keep wall station out of the reach of children, mount at least 5 feet up from the floor.

If fastening into drywall or concrete, use anchors provided. Using a 3/32" drill bit and the drilling template located on page 34, drill the two mounting holes. Drill 3/16" holes if using anchors.

**NOTE:** Make sure mounting surface is flat.



# 22

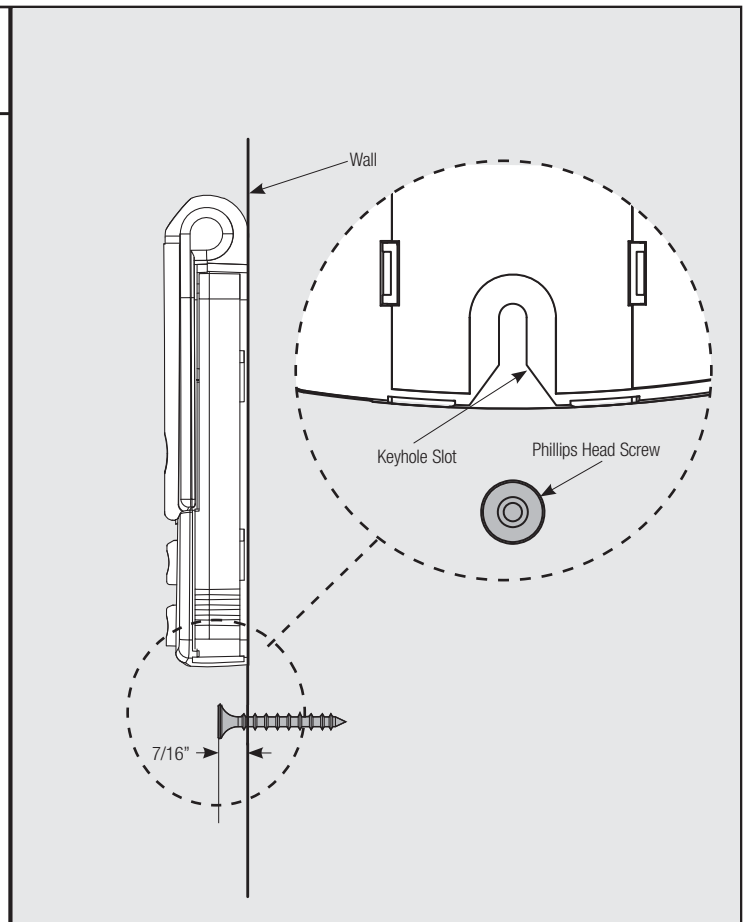
## Mounting Wall Station

Tools Needed:

Phillips Head  
Screwdriver

**NOTE:** The wall station can be mounted to a NEMA standard electrical device box or directly to any wall surface. No wiring is required. If mounting to a NEMA electrical device box use machine thread screws provided in place of the wood screws. No drilling is required. If high voltage wiring is contained in the box a standard NEMA solid faceplate must be installed between the box and the wall station.

Install lower screw leaving 7/16" of the screw exposed. Slide wall station keyhole slot onto the lower screw. Wall station should slide onto screw, providing a snug fit. If necessary, remove wall station and loosen or tighten lower screw.





# 24

## Installing Cable Keepers

Tools Needed:  
None

Carefully inspect the cables on your door. If they are worn, frayed or broken, contact a qualified door service company to replace the cables before installing the cable keepers.

### **⚠️ WARNING**

OPERATING A DOOR WITH FRAYED OR BROKEN COUNTERBALANCE CABLES CAN RESULT IN SEVERE OR FATAL INJURY.

CONTACT A QUALIFIED DOOR SERVICE COMPANY TO REPLACE FRAYED OR BROKEN CABLES BEFORE INSTALLING CABLE KEEPERS.

### **⚠️ WARNING**

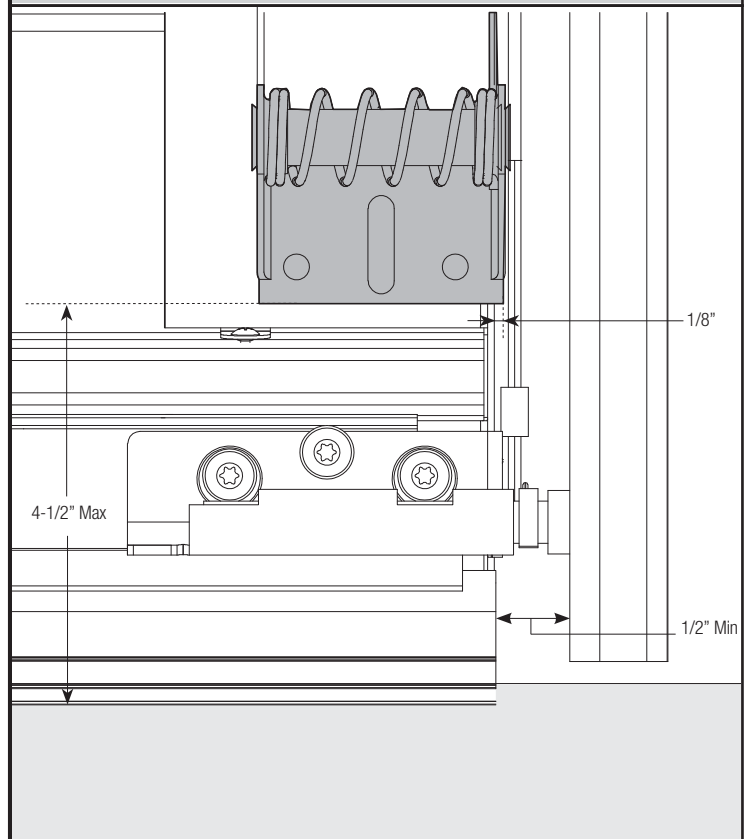
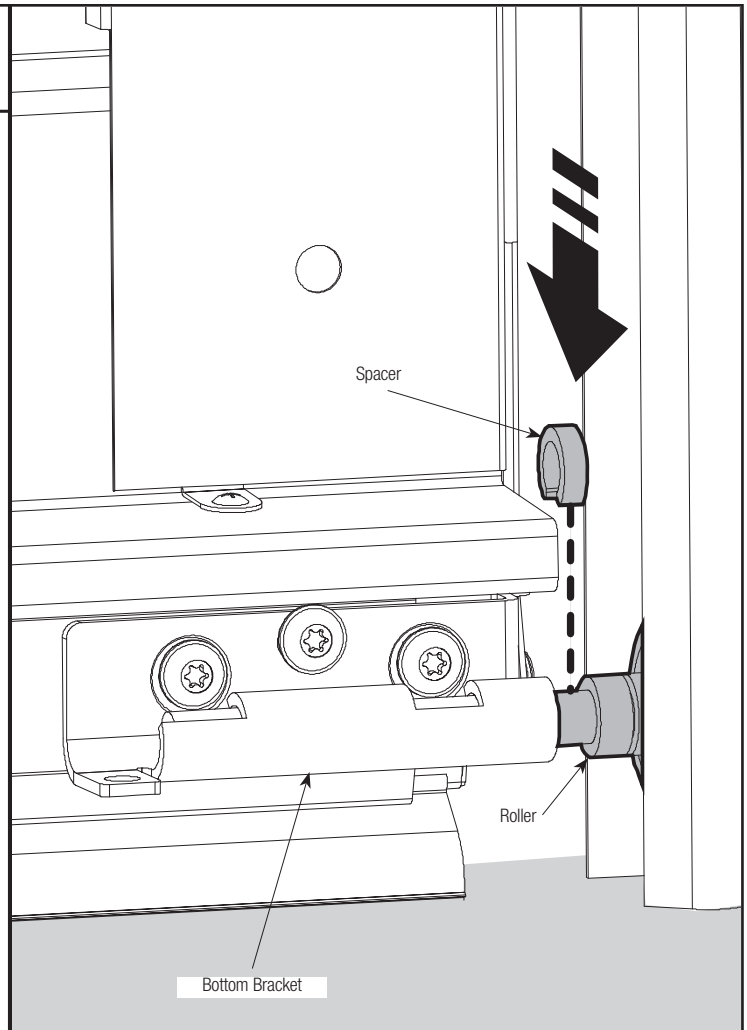
DO NOT ATTEMPT TO LOOSEN OR REMOVE BOTTOM BRACKETS. THEY ARE UNDER EXTREME SPRING TENSION AND CAN CAUSE SEVERE OR FATAL INJURY

Push spacer on to the roller shaft between the bottom bracket and roller. Use an additional spacer if needed to achieve min. 1/2" clearance.

If there is less than 1/2" clearance, loosen the lag screws attaching the track to the wall and adjust the track for the 1/2" clearance. Re-tighten the lag screws.

Position the right hand (black) cable keeper assembly directly above the garage door bottom bracket. The cable keeper assembly must extend 1/8" past the end of the door section. Ensure there is no more than 4-1/2" from the bottom edge of the door to bottom of cable keeper.

**IMPORTANT!** Right and left hand is always determined from inside the building looking out.



### Installing Cable Keepers (Continued)

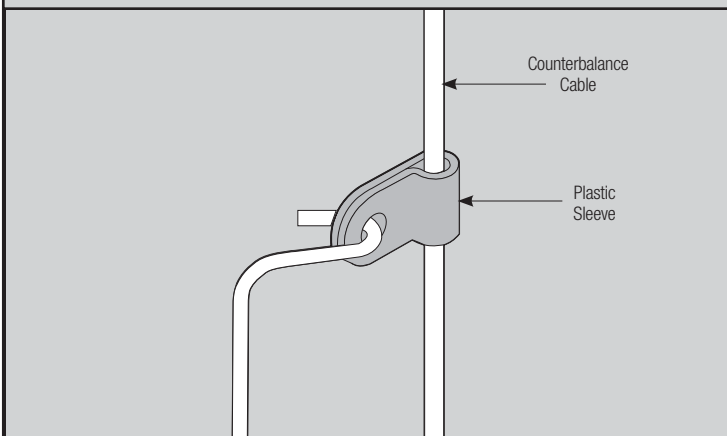
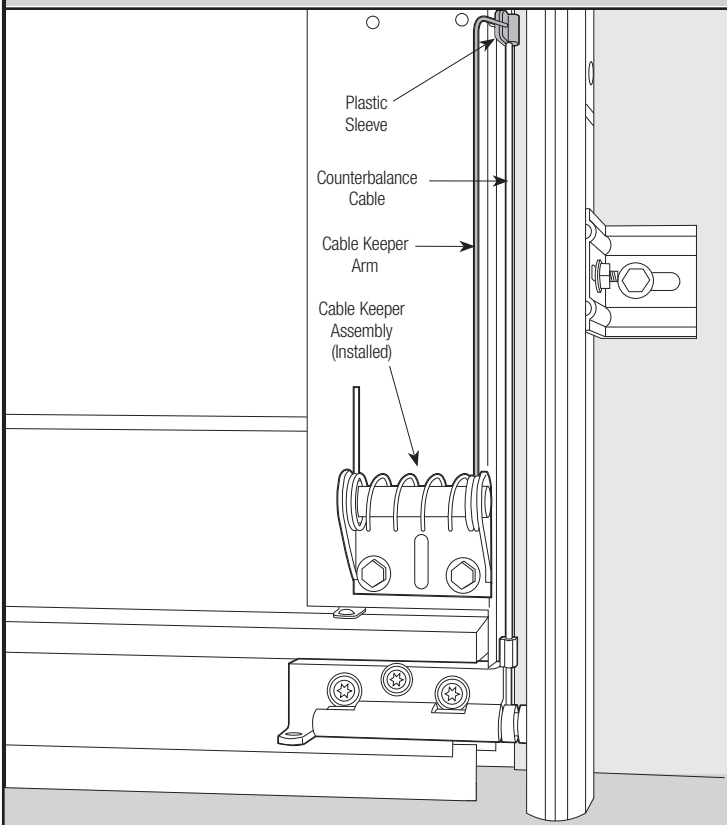
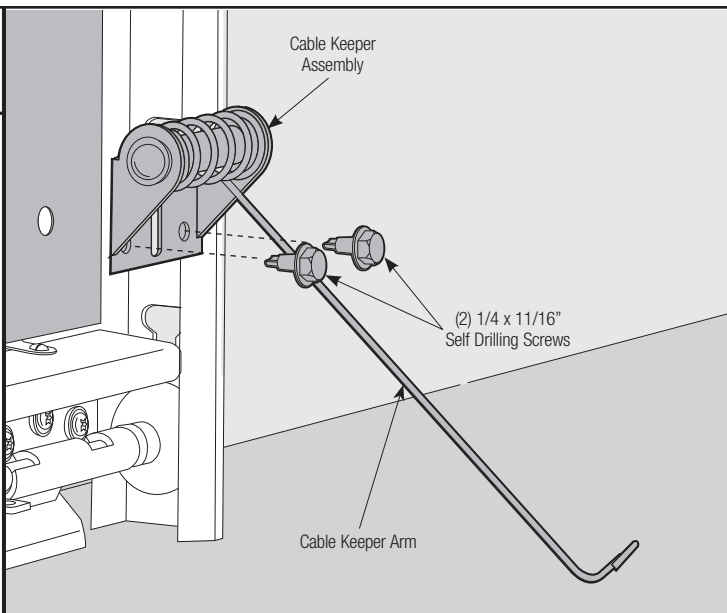
Tools Needed:  
Drill with 1/8" bit  
7/16" Socket Driver

Fasten the cable keeper assemblies with (2) 1/4 x 11/16" self drilling screws (wood doors will use (2) 1/4 x 1" lag screws).

Once the cable keeper assemblies are secured to the section, place the plastic sleeve over the counterbalance cable and then rotate the cable keeper arm upward and attach it to the plastic sleeve.

Repeat for the left hand (Red) cable keeper assembly.

**NOTE:** It is recommended that wood doors be pre-drilled with 1/8" pilot holes prior to fastening.



# 25

## Positioning the Light Fixture

### Tools Needed:

Step Ladder

Phillips head  
screwdriver

Flat Tip  
Screwdriver

### **⚠️ WARNING**

TO AVOID ELECTRICAL SHOCK DISCONNECT POWER TO THE RECEPTACLE AT THE FUSE/BREAKER BOX, BEFORE PROCEEDING WITH THE INSTALLATION OF THE LIGHT FIXTURE.

**IMPORTANT!** This light fixture has a grounding type plug with a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into your outlet, contact a qualified electrician to install the proper outlet. DO NOT alter the plug in any way.

### **⚠️ WARNING**

TO AVOID ELECTRICAL SHOCK/FIRE, DO NOT INSTALL THE LIGHT FIXTURE INTO A RECEPTACLE WITH A METAL FACE PLATE.

**IMPORTANT!** Door must clear light fixture when the door is in the open position.

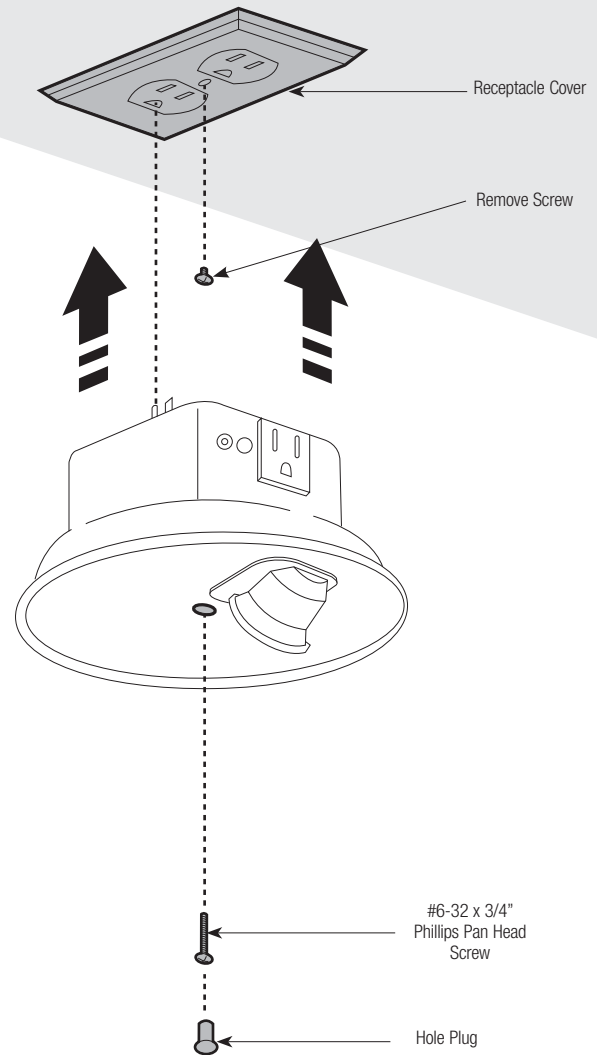
The light fixture is designed to mount directly to a standard 120V duplex receptacle. Remove center hole plug from light fixture (if installed) to expose the screw hole.

Remove the center screw in the receptacle cover. Holding receptacle cover in place, insert light fixture into the receptacle that has the ground hole farthest from center screw hole.

Secure light fixture to receptacle with a #6-32 x 3/4" phillips pan head screw.

Replace hole plug into the screw hole in the light fixture.

**NOTE:** For temperature protection, the hole plug must be in place prior to using the light fixture.



# 26

## Attaching Diffuser

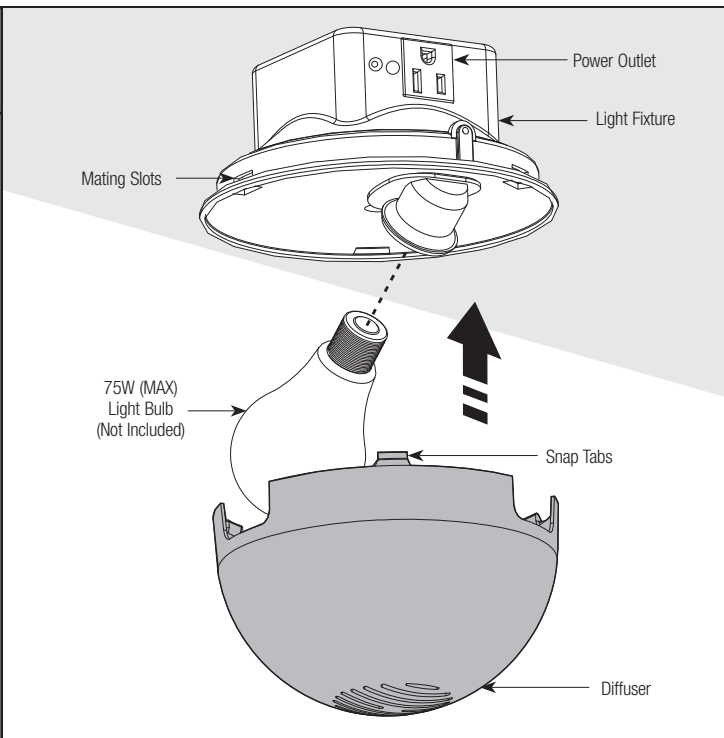
Tools Needed:  
Step Ladder

Screw a 75W (maximum) light bulb into light socket and snap diffuser into light fixture.

When assembling diffuser, make sure all three snap tabs are aligned and fully snapped into the three mating slots of the light fixture.

Turn receptacle power back on at fuse/breaker box. The light should blink one time when the power is turned back on.

**NOTE:** An accessory power outlet receptacle (600 Watt Maximum) is provided as part of the light fixture.



# 27

## Connecting Opener Power Cord

Tools Needed:  
Step Ladder  
Phillips head screwdriver

### **WARNING**

TO AVOID REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT ALTER THE PLUG IN ANY WAY.

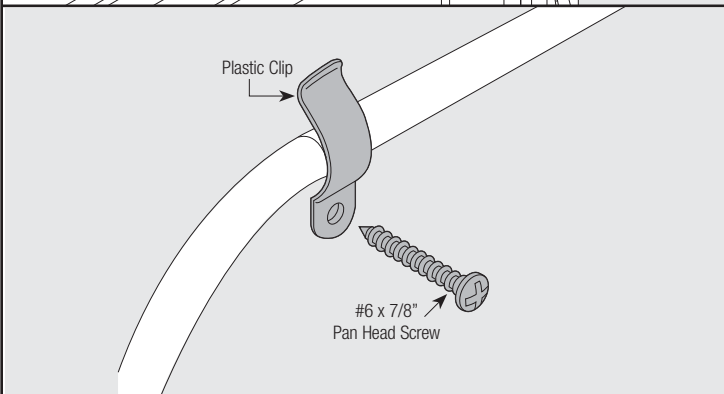
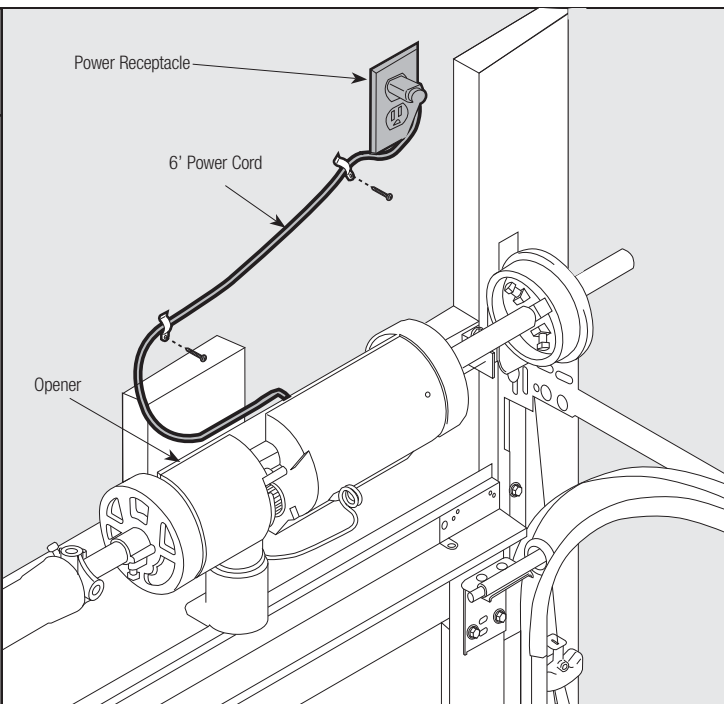
Plug the end of the power cord into the nearest grounded power receptacle. (If the power cord is not long enough to reach the closest receptacle, contact a service person for further options.) As soon as power is applied to the opener the opener will beep twice.

Excess power cord length must be routed and contained safely away from any moving parts.

**NOTE:** Do not permanently attach power cord to building! Use only the power cord clips supplied with the opener.

**NOTE:** If the 6' power cord will not reach an electrical outlet, contact a local electrician for further options.

**NOTE:** If permanent wiring is desired, skip to Step 39 for instructions.



## Programming Wall Station

Tools Needed:

None

### **⚠️ WARNING**

TO AVOID POSSIBLE SEVERE OR FATAL INJURY, MANUALLY DISCONNECT THE OPENER, USING THE EMERGENCY HANDLE PRIOR TO PROGRAMMING REMOTE CONTROLS.

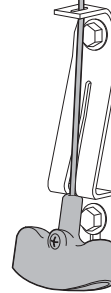
### **⚠️ WARNING**

THE OPENER SHOULD ONLY BE DISCONNECTED WHEN THE DOOR IS IN THE CLOSED (DOWN) POSITION. OTHERWISE, IN CASE OF WEAK OR BROKEN SPRING(S), THE DOOR COULD FALL, CAUSING SEVERE OR FATAL INJURY.

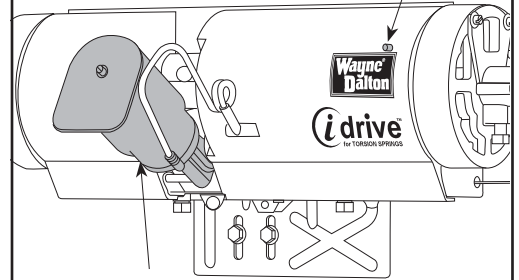
- a. Pull the emergency disconnect handle to the manual door operated position (lower position).
  - b. On the front cover of the opener, press and release the red program button; the opener will beep once, indicating activation of the program mode. The opener will remain in program mode for 30 seconds. If at the end of 30 seconds the opener has not learned an RF device, the opener will beep once; indicating the learn mode is no longer active.
  - c. Press and hold the wall station light button until the opener beeps once. The wall station is now programmed.
- No beeping response from the opener during the wall station programming indicates a programming failure. Repeat programming Steps a-c.
- d. Return the emergency disconnect handle to the motor operated position (upper position).

**NOTE:** The opener can be activated by up to six remote control devices (including wall station, transmitter, and keyless entry devices). If a seventh control is programmed, the first of the program controls will be overwritten and will no longer activate the opener.

Handle In Manual Door Operated Position



Red Program Button



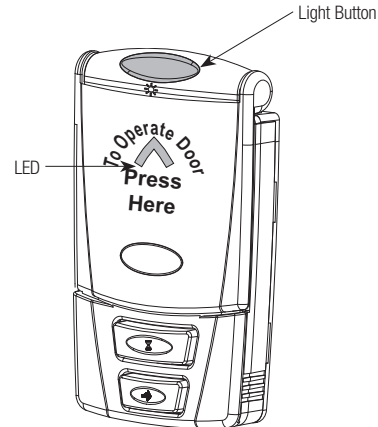
Motor in Up Position

a

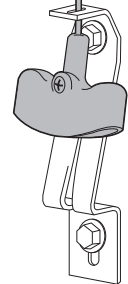
b

c

d



Handle In Motor Operated Position





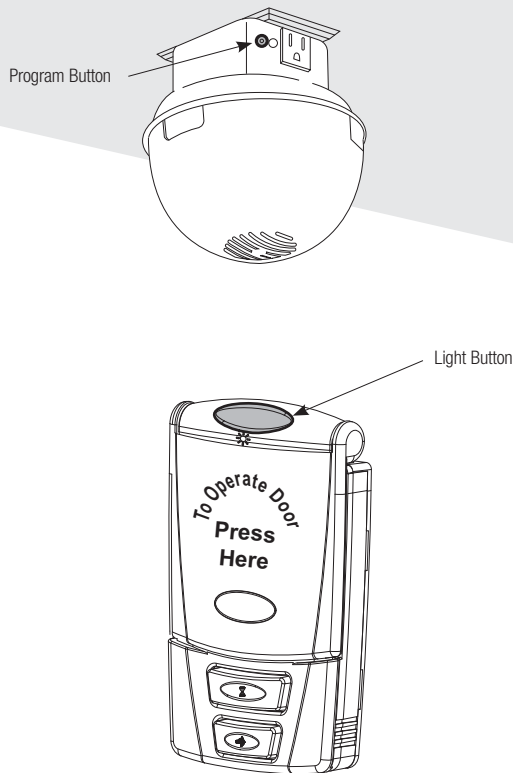
# 29

## Programming the Light Fixture

Tools Needed:  
Step Ladder

- a.** Press the red program button on the light fixture. The LED on the light fixture will turn on and remain on for 30 seconds or until a wall station is learned. The incandescent lamp will also turn on when program button is pushed.
- b.** Press the light button on the wall station. This must be done within 30 seconds of pressing the program button on the light fixture. The light fixture lamp and LED will blink three times to indicate successful programming. The light fixture can now be turned on and off from this wall station.

**NOTE:** In order to program the light fixture to the opener, the installer must have the wall station programmed to the opener.



# 30

## Checking for Obstructions

Tools Needed:  
Ratchet wrench

Move the emergency disconnect handle to the manual operated position (lower).

### **⚠️ WARNING**

THE OPENER SHOULD ONLY BE DISCONNECTED WHEN THE DOOR IS IN THE CLOSED (DOWN) POSITION. OTHERWISE, IN CASE OF WEAK OR BROKEN SPRING(S), THE DOOR COULD FALL, CAUSING SEVERE OR FATAL INJURY.

Manually raise the door to the fully open position. Then manually lower the door to the fully closed position.

If no obstructions interfere with the door when manually opened and closed, proceed to Step 31.

If an object, such as a ceiling beam, obstructed the door from opening completely, proceed to Step 31 then 33 to set a custom upper limit setting during the install routine.

If there is interference between the top of the door and the opener's housing, try repositioning the top bracket as far up as possible.

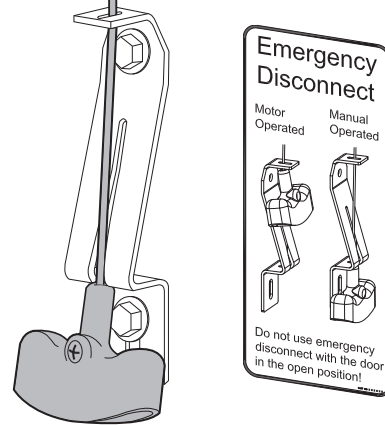
**CAUTION!** Complete repositioning the top bracket on one side of the door, before beginning the other side.

The top brackets are located on the garage door top section (closest to the ceiling). Loosen the nuts from the roller carrier (if present).

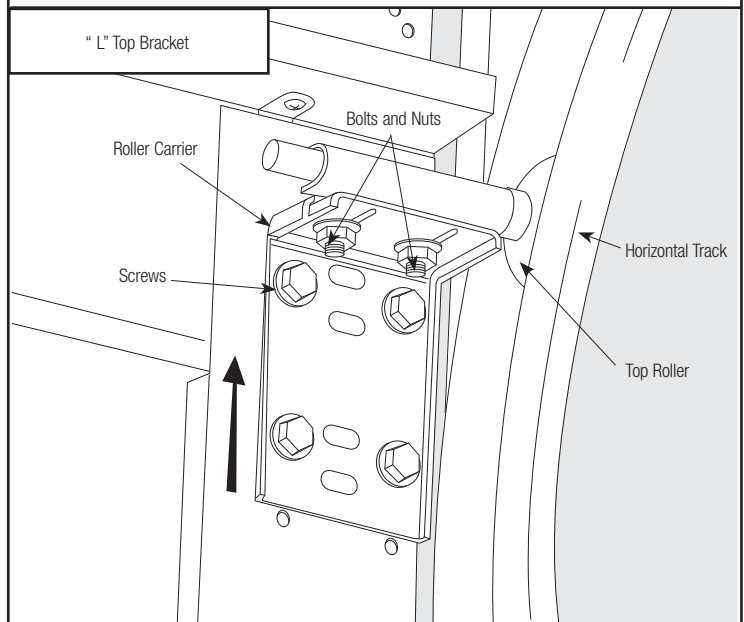
Remove the screws holding the top bracket to the door section. Raise the top bracket and re-attach. Re-align the top roller in the track by moving the roller carrier until the door section meets the door stop. Tighten nuts.

Repeat for the other side.

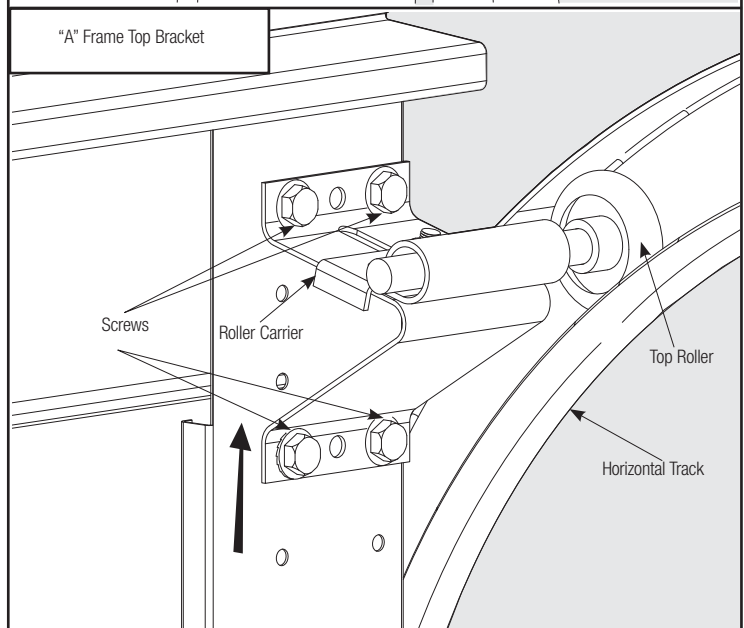
Handle In Manual Door  
Operated Position



"L" Top Bracket



"A" Frame Top Bracket



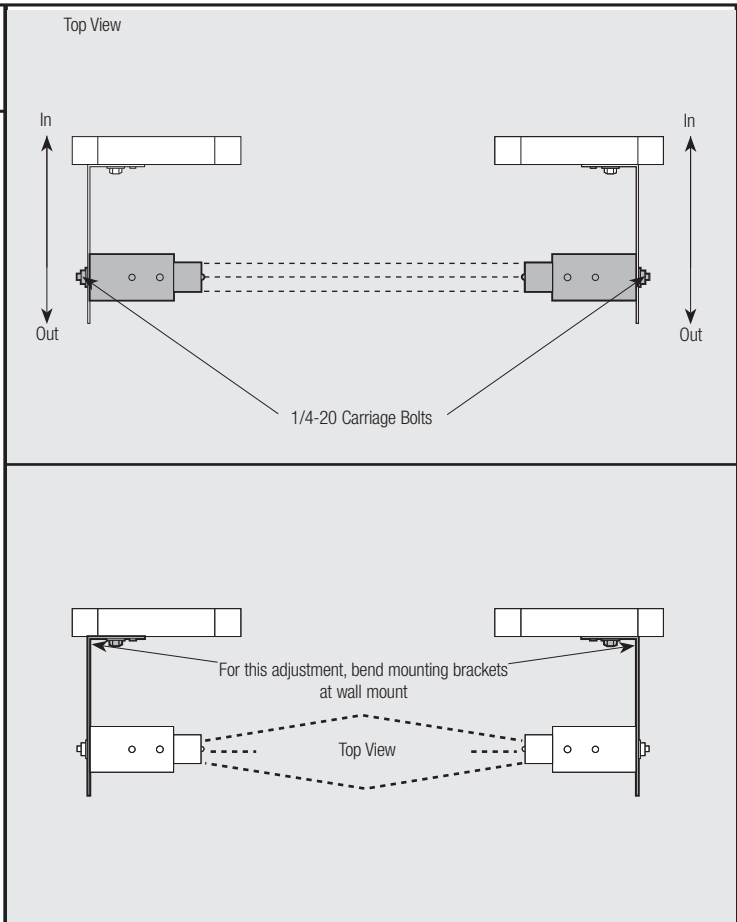
# 31

## Aligning the Safety Sensors

Tools Needed:  
7/16" Wrench

Align the safety sensors by moving the sending and receiving units in or out until the alignment light on the receiving unit comes on. The 1/4-20 carriage bolt can be loosened to move the safety sensor in or out, as required. If you have difficulty aligning the beams, check that both mounting brackets are mounted at the same height and remount if necessary. Additional minor adjustments can be made by slightly bending the mounting brackets.

Once the alignment light comes on, tighten all bolts and mounting screws. Finish securing all wire making sure not to break or open any of the conductors. Loop and secure any excess wire.



# 32

## Install Standard Upper Limit Routine

Tools Needed:  
None

**⚠ WARNING**  
TO AVOID INJURY, NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR!

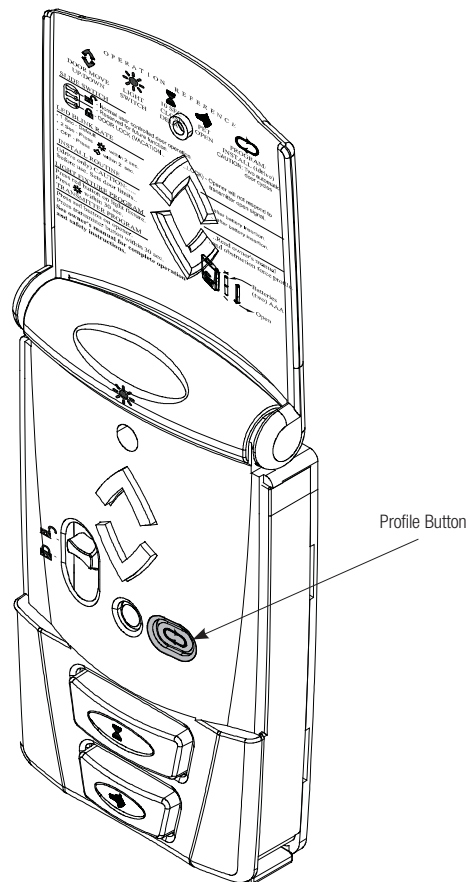
**NOTE:** The door must be in its fully closed position and the disconnect handle must be in the motor operated position (upper position) to initiate the install routine.

**NOTE:** Install routine will not run if safety sensors are not aligned.

**Press and hold the profile button for five (5) seconds.** The opener will beep twice, indicating the activation of the install routine. The door will now move to the fully open position and stop, beep twice and then the door will close completely.

Next, the door will go through one more up/down cycle. Once this is complete, the door limits are set and the installation is complete.

**NOTE:** Upon successful completion of Step 32, proceed to Step 34.



# 33

## Install Custom Upper Limit Routine

Tools Needed:  
None

### **⚠️ WARNING**

TO AVOID INJURY, NO ONE SHOULD CROSS PATH OF A MOVING DOOR.

**NOTE:** If standard upper limit is preferred, skip this step.

**NOTE:** The door must be in its fully closed position and the disconnect handle must be in the motor operated position (upper position) to initiate the install routine.

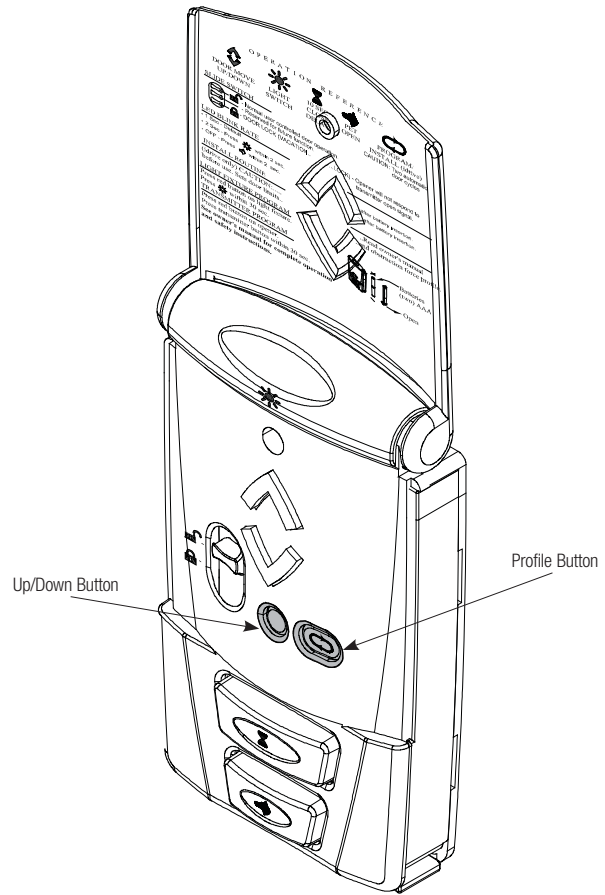
**NOTE:** Install routine will not run if safety sensors are not aligned.

**Press and hold the profile button for five (5) seconds.** The opener will beep twice, indicating the activation of the install routine.

**When the door moves to the desired height, press the Up/Down button on the wall station.** The door will stop and then close completely.

Next, the door will go through one more Up/Down cycle. Once this is complete, the door limits are set and the installation is complete.

**NOTE:** For a more precise location of the custom upper limit, see "Customizing the Settings" on page 30.



# 34

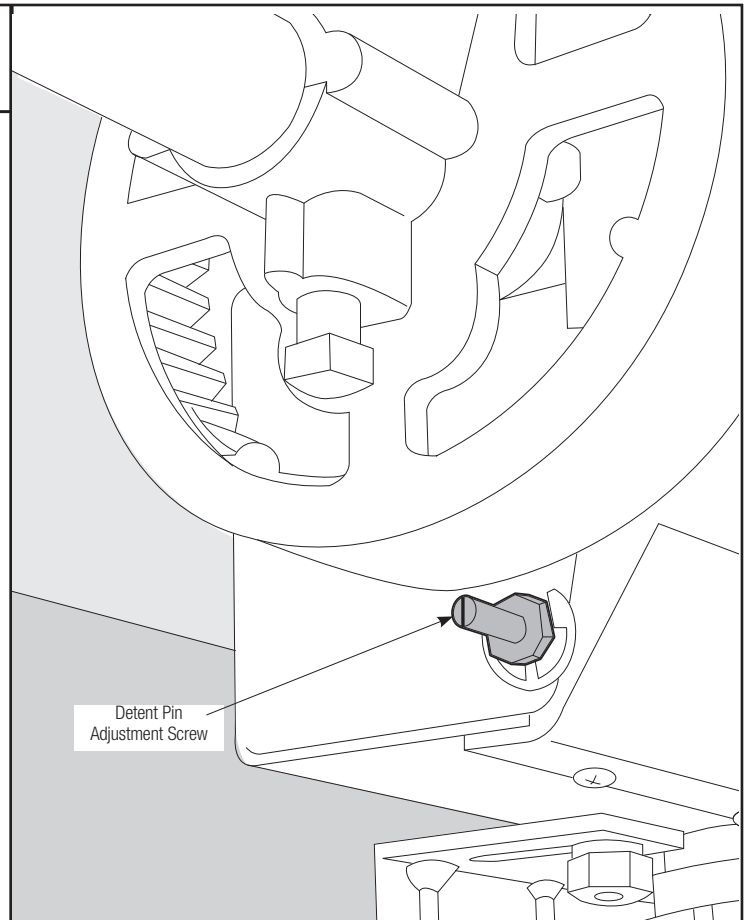
## Adjusting Detent

Tools Needed:  
Step Ladder  
Flat Tip Screwdriver

The amount of pressure the opener uses to pivot the motor downward is preset at the factory via the detent pin adjustment screw.

Due to variations in door installations, a detent pin adjustment may need to be made in order for proper pivoting of the motor.

**IMPORTANT!** For system security: the motor is designed to pivot down after the door closes completely. If the motor does not pivot or pivots too soon, the detent may need to be adjusted in order for the door lock feature to work properly.



<b>Adjusting Detent (Continued)</b>	
<p>Tools Needed:</p>	<p><b>a.</b> If the motor does not pivot down, or only pivots down partially, the detent pin is set too hard.</p> <p>Using a flat tip screwdriver, turn the detent pin counterclockwise in 1/8 turn increments.</p> <p>Operate the door to confirm adjustment. Repeat procedure until motor pivots to full down position when the door is completely closed.</p> <p><b>b.</b> If the motor pivots down prematurely (before the door is completely closed) or if the motor is “slapping” too aggressively against the top of the door, the detent pin is set too soft.</p> <p>Using a flat tip screwdriver, turn the detent pin clockwise in 1/8 turn increments. Operate the door to confirm adjustment.</p> <p>Repeat procedure until motor pivots to full down position when the door is completely closed.</p>

<b>35</b>	<b>Setting Lock Adjustor</b>
<p>Tools Needed:</p> <p>Step Ladder</p>	<p>The opener is designed to lock a fully closed door by obstructing the door with the motor cover (lock adjustor). The locking feature can be adjusted to properly interface with your door.</p> <p>The lock ring and lock adjustor are assembled to the highest position. Once the door and opener have been installed and the opener has been programmed, the lock adjustor needs to be adjusted. Unscrew the lock adjustor until it is 1" from the top of the door. Once the lock adjustor is set at desired position, screw the lock ring down to the lock adjustor to prevent it from moving.</p> <p>Disconnect the opener and manually operate the door to confirm door clears the lock adjustor. Reconnect opener and cycle the door to make sure the lock adjustor does not hit the door during the cycle sequence. Adjust the lock adjustor accordingly.</p>

# 36

## Testing the Safety Sensors

Tools Needed:  
6" High Object

### **WARNING**

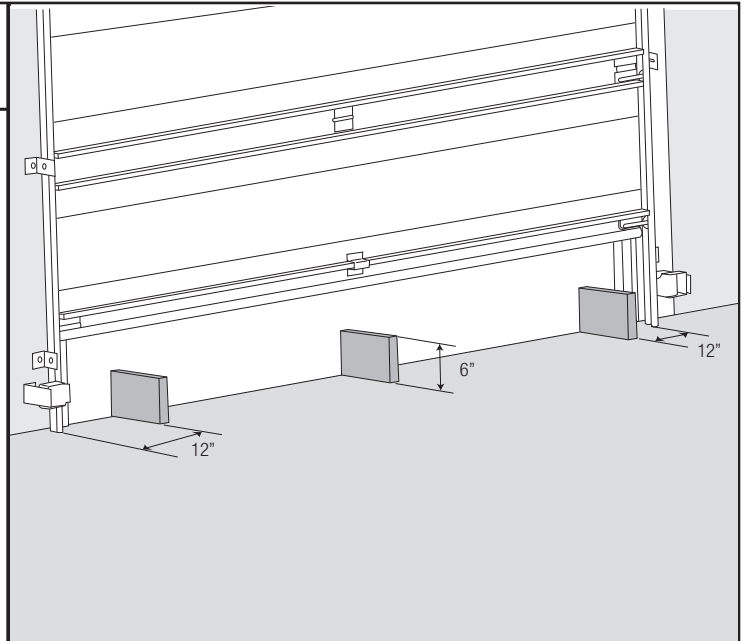
WHEN PERFORMING THIS PART OF THE TEST, DO NOT PLACE YOURSELF UNDER DESCENDING DOOR, OR SEVERE OR FATAL INJURY MAY RESULT.

Starting with the door fully open, place a 6" high object on the floor, in line with sensors, one foot from the left side of the door.

Activation of the opener with the wall station Up/Down button should cause the door to move no more than one foot, stop and then reverse to fully open position.

Repeat this test with the 6" high object placed at the center of the door and then one foot from the right side of the door.

The 6" high object, when placed on the floor in line with sensors, while door is closing, should also cause the door to reverse.



### **WARNING**

IF OPENER DOES NOT RESPOND PROPERLY TO THESE TESTS (STEPS 36 AND 37), HAVE A QUALIFIED SERVICE PERSON MAKE NECESSARY ADJUSTMENTS/REPAIRS, OR SEVERE OR FATAL INJURY COULD RESULT FROM OPERATING THE DOOR/OPENER.

# 37

## Contact Obstruction Testing

Tools Needed:  
1-1/2" High Object

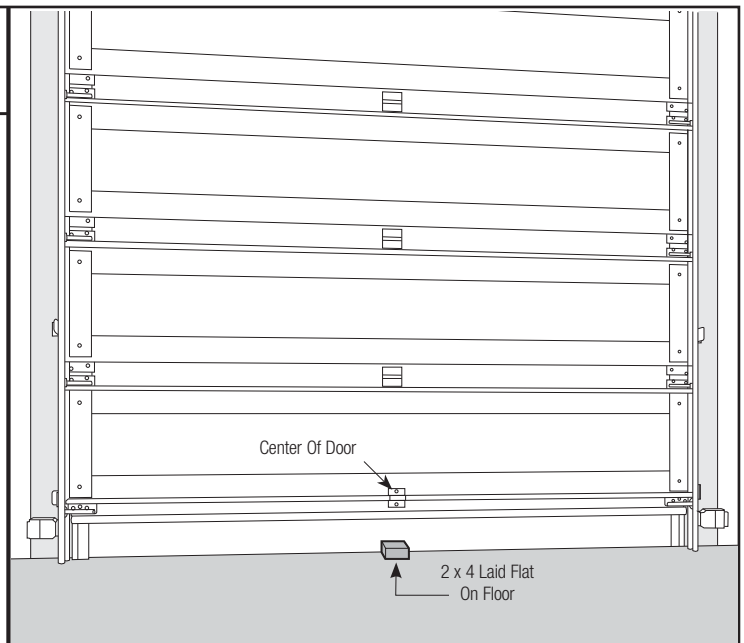
After installing the opener, the door must reverse when it contacts a 1-1/2" high object (or a 2 x 4 board laid flat) on the garage floor.

Using the wall station, activate the door to the fully open position.

Place a 2 x 4 board flat on the garage floor, under the door path.

Activate the door to the closed position with the wall station. Upon contacting the 2 x 4 board, the door should stop, then reverse direction within two seconds and travel to the full open position.

If the door does not respond to the required tests, repeat install routine Step 32 or 33, making sure the door is in the fully closed position prior to activation.



### **WARNING**

IF OPENER DOES NOT RESPOND PROPERLY TO THESE TESTS (STEPS 36 AND 37), HAVE A QUALIFIED SERVICE PERSON MAKE NECESSARY ADJUSTMENTS/REPAIRS, OR SEVERE OR FATAL INJURY COULD RESULT FROM OPERATING THE DOOR/OPENER.

# 38

## Programming Transmitter

Tools Needed:  
Step Ladder

### **⚠ WARNING**

TO AVOID POSSIBLE SEVERE OR FATAL INJURY, MANUALLY DISCONNECT THE OPENER, USING THE EMERGENCY HANDLE PRIOR TO PROGRAMMING REMOTE CONTROLS.

### **⚠ WARNING**

THE OPENER SHOULD ONLY BE DISCONNECTED WHEN THE DOOR IS IN THE CLOSED (DOWN) POSITION. OTHERWISE, IN CASE OF WEAK OR BROKEN SPRING(S), THE DOOR COULD FALL, CAUSING SEVERE OR FATAL INJURY.

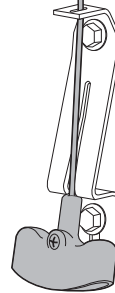
- a.** Pull the emergency disconnect handle to the manual door operated position (lower position).
- b.** On the front cover of the opener, press and release the red program button: The opener will beep once, indicating activation of the program mode. The opener will remain in program mode for 30 seconds. If at the end of 30 seconds the opener has not learned an RF device, the opener will beep once; indicating the learn mode is no longer active.
- c.** Press and hold the desired transmitter button until; the opener beeps once. The transmitter is now programmed.

No beeping response of the opener during the transmitter programming indicates a programming failure. Repeat programming a-c.

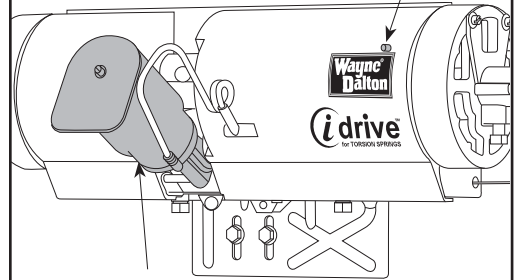
- d.** Return the emergency disconnect handle to the motor operated position (upper position).

**NOTE:** The first transmitter command after programming will only move the door through a six inch up/down cycle. Normal door operations will occur on the second use of the transmitter.

Handle In Manual  
Door Operated  
Position



Red Program  
Button



Motor in  
Up Position

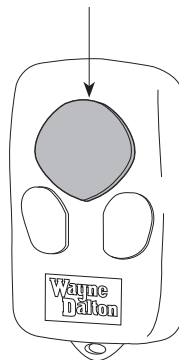
a

b

c

d

Large Button



Handle In Motor  
Operated Position



# 39

## Opener Permanent Wiring

Tools Needed:  
Phillips Head  
Screwdriver

Flat Tip Screwdriver

Wire Cutters/ Stripper

Pliers

### **⚠️ WARNING**

FAILURE TO DISCONNECT ELECTRICAL POWER AT FUSE/BREAKER BOX BEFORE PROCEEDING COULD RESULT IN ELECTRICAL SHOCK.

**Important!** Disconnect electrical power at fuse/breaker box.

If required by local codes, the opener can be permanently wired. Services of a licensed electrician should be obtained to permanently wire the unit.

Unplug the motor power cable.

Using a phillips head screwdriver, remove the two screws from the right hand Cover. Remove the right hand cover from the opener to expose electronics and wiring.

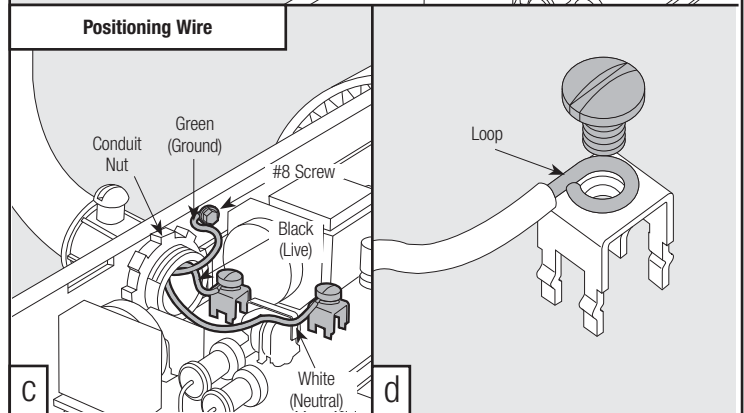
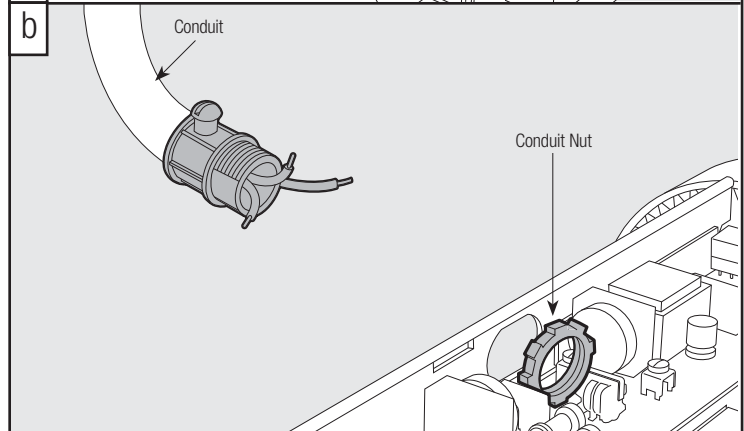
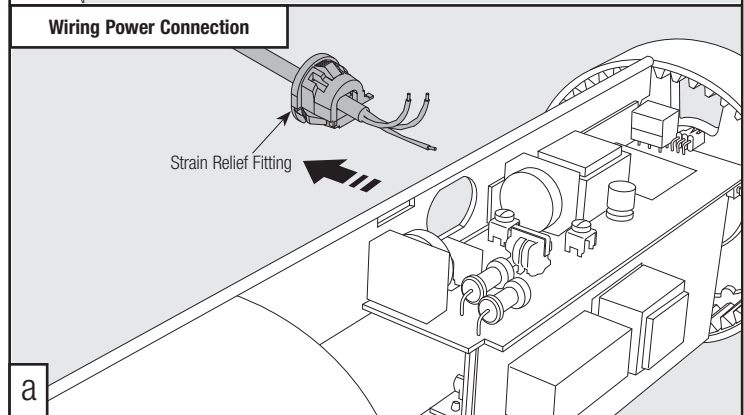
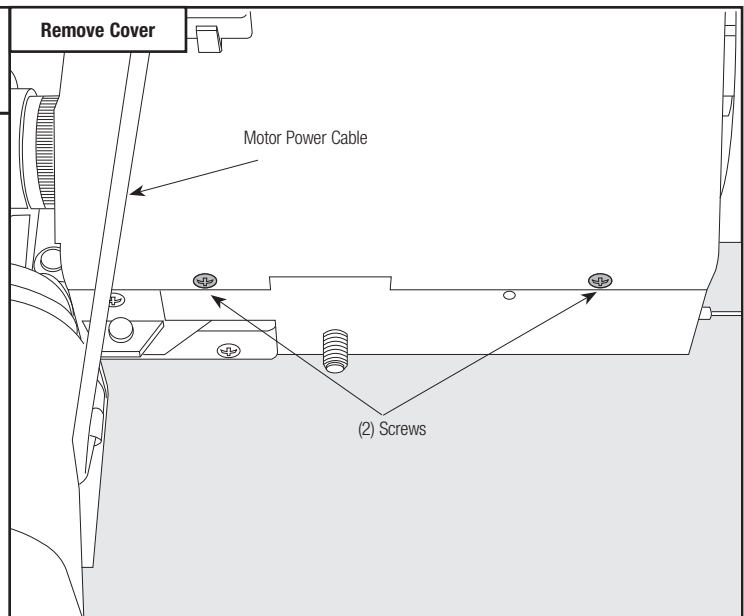
### **Wiring the Power Connection:**

- a. Remove the strain relief fitting, including its wires and discard.
- b. Attach conduit with conduit nut, insert field wires and cut wires, allowing 6" of additional wire length. Strip off 3/4" of insulation from each wire and form a loop at the ends of the wires as shown in the illustration at lower right.

### **Positioning Wire:**

- c. Position wiring as shown in the illustration, keeping them to the left side of the circuit board.
- d. Attach wires to screw terminals on the circuit board with black wire to BLK terminal, white wire to WHITE terminal and the green with yellow stripe wire to the frame using the provided #8 screw.

Replace the right hand cover over the opener's electronics and secure with the two screws. Plug motor power cable into opener.







# 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 the door controls. Keep remote controls away from children.
- 3. Always keep a moving door in sight and keep people and objects away until it is completely closed. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR.
- 4. NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.
- 5. Test the door/opener monthly. The garage door MUST reverse on contact with a 1-1/2" high object (or a 2 x 4 board laid flat) on the floor. The door MUST also reverse when a 6" high object is placed on the floor in line with safety sensors. If door/opener fails these tests, have adjustments/repairs made immediately. Failure to make adjustments/repairs may cause severe or fatal injury.
- 6. When possible, use the emergency disconnect only when the door is in the closed position. Use caution when using the emergency disconnect when the door is open. Weak or broken spring(s) may allow the door to fall rapidly, causing a severe or fatal injury.
- 7. KEEP THE GARAGE DOOR PROPERLY BALANCED. See the owner's manual included with the door. An improperly balanced door could cause a severe or fatal injury. Have a qualified service person make repairs to the cables, spring assemblies, and other hardware.

#### **8. SAVE THESE INSTRUCTIONS.**

##### **Door activation:**

Upon activation by either the wall station Up/Down button or transmitter, the door will move in the following manner:

- 1. If closed, the door will open. If open completely, the door will close. If partially open, the door will open.
- 2. If closing, the door will stop, reverse, and return to the open position. Next activation will close the door.
- 3. If opening, the door will stop. Next activation will open the door.
- 4. If an obstruction is encountered or an out-of-balance condition is detected while the door is closing, the door will reverse, return to the open position, and the opener will beep 3 or 4 times. The next activation will close the door.
- 5. If an obstruction is encountered or an out-of-balance condition is detected while opening the door, the door will stop. The next activation will open the door.
- 6. When door is in motion any button on the wall station functions the same as the Up/Down button.

## **⚠️ WARNING**

ALWAYS KEEP MOVING DOOR IN SIGHT AND KEEP PEOPLE AND OBJECTS AWAY UNTIL IT IS COMPLETELY CLOSED. TO PREVENT A SEVERE OR FATAL INJURY, AVOID STANDING IN A OPEN DOOR WAY OR WALKING THROUGH THE DOORWAY WHILE THE DOOR IS MOVING.

## **⚠️ WARNING**

NEVER LET CHILDREN OPERATE DOOR OR PLAY WITH THE DOOR CONTROLS. KEEP REMOTE CONTROLS AWAY FROM CHILDREN. FATAL INJURY COULD RESULT SHOULD A CHILD BECOME TRAPPED BETWEEN THE DOOR AND FLOOR.

## **⚠️ WARNING**

KEEP THE GARAGE DOOR PROPERLY BALANCED. AN IMPROPERLY BALANCED DOOR COULD CAUSE SEVERE OR FATAL INJURY. HAVE A QUALIFIED SERVICE PERSON MAKE ADJUSTMENTS/REPAIRS TO CABLES, SPRING ASSEMBLIES, AND OTHER HARDWARE.

##### **Emergency Disconnect:**

## **⚠️ WARNING**

THE EMERGENCY DISCONNECT SHOULD ONLY BE USED WHEN DOOR IS CLOSED. USE EXTREME CAUTION IF OPERATING THE EMERGENCY DISCONNECT ON AN OPEN DOOR. WEAK OR BROKEN SPRING(S) MAY ALLOW THE DOOR TO FALL RAPIDLY, CAUSING SEVERE OR FATAL INJURY.

The opener is equipped with an emergency disconnect that allows the door to be moved manually and independently from the opener.

With the door closed, pull down on the disconnect handle and place the handle under the lower section of the handle bracket. This motion causes the motor on the opener to pivot upwards and the opener to disconnect from the torsion tube.

Releasing the disconnect handle from the lower section on the handle bracket and returning the handle to its original position will reconnect the opener to the torsion tube.

**NOTE:** The motor will not pivot down completely when the handle is released. After one motorized up/down door cycle, the motor will once again pivot down, and all cable slack will be taken up. The garage door is not secured from forced entry, until the motor is back in the down position.

**Disconnect Label:** The label is located next to the disconnect handle. The label shows the handle in both the motor operated and manual operated positions. View on the left side of the label shows the handle position when the opener is engaged to the torsion tube. The view on the right side of the label shows the handle when the opener is disconnected from the torsion tube.



## Operating the Wireless Wall Station

### Up-Down Button:

Momentarily pressing the up/down button activates the door. If an out-of-balance condition causes the door to stop while opening or reverses the door while closing, applying constant pressure to the up/down button until the door is fully open or closed will allow the opener to move the door in this condition until the problem is corrected.

See Troubleshooting. **The up/down button (when unit is closed) can be activated by pressing flip cover.**

### **⚠️ WARNING**

A SEVERE OUT-OF-BALANCE CONDITION MUST BE CORRECTED IMMEDIATELY. FAILURE TO MAKE ADJUSTMENTS/REPAIRS, COULD RESULT IN SEVERE OR FATAL INJURY.

### Light Button:

Momentarily pressing the light button turns on the light fixture. The light fixture will remain on until either the light button is pressed again or the door is activated. The light fixture automatically turns on with a door activation and remains on for five minutes. Pressing the light fixture button before the five minutes has elapsed will turn off the light fixture. While the door is in motion, the light button functions identical to the up/down button, stopping or reversing the door immediately.

### Timer Button:

Momentarily pressing the timer button causes a delayed activation of a stationary fully open door. The opener will signal seven beeps (approx. 8 seconds) then beep constantly for two seconds prior to closing the door, allowing time to exit the garage. Pressing any button, except for the profile button while the opener is beeping cancels the timer mode.

**NOTE: The timer feature will only function with the door in the full open position. Pressing the timer button with a stationary door in any other position will cause the opener to beep four times and the door will not be activated.**

While the door is in motion, the timer button functions identical to the up/down button, stopping or reversing the door immediately.

### Slide Switch:

The slide switch has two positions: Normal, and Door lock.

Normal position: 

Move the slide switch to normal position for all normal functions of the opener. The normal position will cancel the door lock feature.

**NOTE: When a slide switch move to the unlocked position is accepted the opener will beep once.**

Door Lock position: 

If the door is stopped (fully open, fully closed or partially open) move the slide switch to the door lock position to suspend all normal functions of the opener. The opener will remain completely disabled and non-operational in this mode. All wall stations, transmitters and keyless entry units are ignored until the slide switch is moved to the normal position. If the door is moving when the slide switch is moved to the door lock position, the door lock mode is not activated and all functions of the opener remain active.

**NOTE: When a slide switch move to the locked position is accepted the opener will beep twice.**

### Backlit LED Lights:

The red LED blinks intermittently to help you locate the wall station in a dark garage. This blink rate can be changed for longer battery life or can be turned off. The default blink rate is one blink every 3 seconds. For longer battery life the blink rate can be changed to blink once every 6 seconds. To change the blink rate, remove the battery cover and remove one battery. Re-install the battery and within 2 seconds, press the Light button. Re-install the battery cover. For longest battery life, the blink can be turned off. To turn off the blink, remove the battery cover and remove one battery.

Re-install the battery and within 2 seconds, press the pet button. Re-install the battery cover.

**NOTE: The wall station's red LED will light while any wall station button remains pressed.**

### Pet Position:

Pressing the pet button opens a closed door to a preset position between eight and thirty inches above the floor, allowing pets to enter and exit the garage without the door being fully open. The door must be fully closed to activate the pet open feature. Pressing the pet button with a stationary door in the pet open position will cause the door to close. Pressing the up/down button while the door is in the pet position will cause the door to open. While the door is in motion, the pet button functions identical to the up/down button, stopping or reversing the door immediately. The pet feature allows for custom setting of the pet position door height. See Customizing the Settings on page 30.

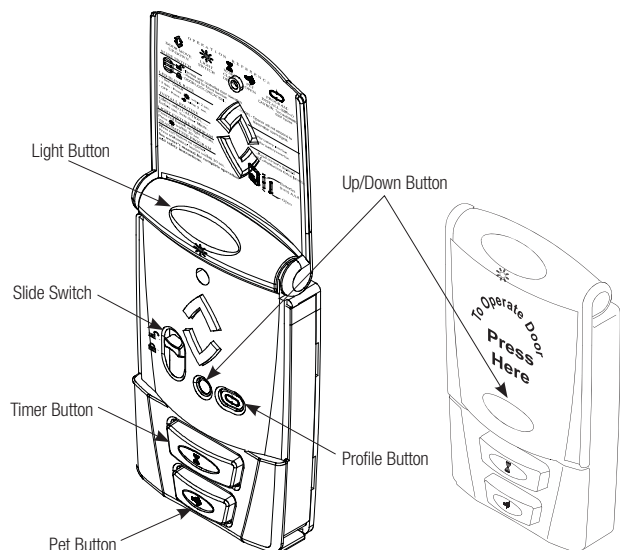
**NOTE: A door in the "pet position" (open 8-30 inches) is not locked and should not be used as a secured door position.**

### Profile Routine:

**Press and hold the profile button for five (5) seconds** to initiate the "Install Routine". See Customizing the Settings on page 30.

**NOTE: Refer to Step 28 for wall station programming instructions.**

**NOTE: The wall station's red LED will light while any wall station button remains pressed. See Maintenance section for battery replacement.**





## Programming HomeLink® System to the Torsion idrive® (Primary)

**NOTE:** This step can only be done on automobiles equipped with the HomeLink® System.

**NOTE:** Programming HomeLink® requires a Wayne-Dalton transmitter that is programmed to the torsion idrive® per Step 38.

**IMPORTANT:** Use the programming instructions provided with your vehicle first. Follow these instructions if the HomeLink® unit does not learn the transmitter, by using the vehicles instructions.

**NOTE:** If primary programming does not work then use the alternate procedure on next page.

**Note:** Vehicle may need to be in accessory position when programming. Check car owner's manual.

**Note:** HomeLink® is a registered trademark of Johnson Controls.

### Programming/Training HomeLink® Unit

#### **WARNING**

GARAGE DOOR MAY OPERATE DURING PROGRAMMING. TO AVOID POSSIBLE SEVERE OR FATAL INJURY, PLACE THE EMERGENCY DISCONNECT HANDLE IN THE MANUAL OPERATED POSITION.

#### **WARNING**

THE EMERGENCY DISCONNECT SHOULD ONLY BE USED WHEN DOOR IS CLOSED.

1. Pull the manual disconnect to put the opener in the manually operated position.
2. Verify the HomeLink® unit has an empty channel. Press the desired HomeLink® button and observe the LED. If it flashes slowly, the channel is empty and ready for programming. If pressing the desired channel/button causes the LED to blink rapidly, or come on without blinking, then this channel is already programmed. You either need to choose a different channel/button on the HomeLink® , or perform Step 3 below.
3. OPTIONAL – To completely clear all channels on the HomeLink® unit, press and hold the two outside buttons on the HomeLink® unit until the HomeLink® LED light begins to flash rapidly (approx. 20 seconds), then release both buttons. (Do not perform this Step to train additional hand-held transmitters.) **Note:** This operation erases all previously learned transmitters and you will need to re-teach any other transmitters to your HomeLink® unit.
4. Hold the end of the Wayne-Dalton hand-held transmitter approximately 1 to 3 inches away from the HomeLink® surface – keeping the HomeLink® indicator light in view.
5. Simultaneously press and hold the Wayne-Dalton transmitter large button and desired button on the HomeLink® module, continue to hold both buttons. In less than 10 seconds the LED on the HomeLink® module will either go solid or give a single quick flash, release both buttons when either occur.

**Note:** If this procedure is unsuccessful, perform alternate procedure on next page.

#### Teaching HomeLink® to the idrive® opener

6. Press the red program button on the idrive® opener. The idrive® unit will beep once, indicating that it is ready to learn.

**Note:** The idrive® will remain in the learn mode for 30 seconds.

7. Press the HomeLink® button used in Step 5 above for 1 to 3 seconds. The idrive® will beep indicating a successful learn.
8. Return the manual disconnect to the motor operated position.
9. Press the HomeLink® button once more to operate the door.

**Note:** The first transmitter command after programming will only move the door through a six inch up/down cycle. Normal door operations will occur on the second use of the transmitter.



## Programming HomeLink® System to the Torsion idrive® (Alternate)

**NOTE:** This Step can only be done on automobiles equipped with the HomeLink® System.

**NOTE:** Programming HomeLink® requires a Wayne-Dalton transmitter that is programmed to the torsion idrive® per Step 38.

**IMPORTANT:** Use the programming instructions provided with your vehicle first. Follow these instructions if the HomeLink® unit does not learn the transmitter, by using the vehicles instructions.

**Note:** Vehicle may need to be in accessory position when programming. Check car owner's manual.

**Note:** HomeLink® is a registered trademark of Johnson Controls.

### Programming/Training HomeLink® Unit

#### **WARNING**

GARAGE DOOR MAY OPERATE DURING PROGRAMMING. TO AVOID POSSIBLE SEVERE OR FATAL INJURY, PLACE THE EMERGENCY DISCONNECT HANDLE IN THE MANUAL OPERATED POSITION.

#### **WARNING**

THE EMERGENCY DISCONNECT SHOULD ONLY BE USED WHEN DOOR IS CLOSED.

1. Pull the manual disconnect to put the opener in the manual operated position.
2. Verify the HomeLink® unit has an empty channel. Press the desired HomeLink® button and observe the LED. If it flashes slowly, the channel is empty and ready for programming. If pressing the desired channel/button causes the LED to blink rapidly, or come on without blinking then this channel is already programmed. You either need to choose a different channel/button on the HomeLink®, or perform Step 3 below.
3. OPTIONAL – To completely clear all channels on the HomeLink® unit, press and hold the two outside buttons on the HomeLink® unit until the HomeLink® LED light begins to flash rapidly (approx. 20 seconds), then release both buttons. (Do not perform this Step to train additional hand-held transmitters.) **Note:** This operation erases all previously learned transmitters and you will need to re-teach any other transmitters to your HomeLink® unit.
4. Hold the end of the Wayne-Dalton hand-held transmitter approximately 1 to 3 inches away from the HomeLink® surface – keeping the HomeLink® indicator light in view.
5. Use the large button on the Wayne-Dalton transmitter. Simultaneously press and hold desired HomeLink® button and the Wayne-Dalton transmitter large button. Continue to press both buttons counting LED flashes on the HomeLink® module; between 50 to 60 LED flashes the LED will either come on solid or do one “quick flash”; when either of these occur release both Wayne-Dalton transmitter and HomeLink® buttons.

### Teaching HomeLink® to the idrive® opener

6. Press the red program button on the idrive® opener. The idrive® unit will beep once, indicating that it is ready to learn.

**Note:** The idrive® will remain in the learn mode for 30 seconds.

7. Press the HomeLink® button used in Step 5 above for 1 to 3 seconds. The idrive® will beep indicating a successful learn.
8. Return the manual disconnect to the motor open position.
9. Press the HomeLink® button once more to operate the door.



## Customizing the Settings

### Custom pet position:

Normal install routine sets the pet position to approximately 8 inches above the ground. The pet opening height may be changed to open anywhere between 8" and 30" above the ground. To change the automatic pet opening height refer to the following procedure:

- a. After completion of the normal install routine, with the door in the closed position, place the disconnect handle in the manual operated position.

Manually position the door to the desired pet opening height (between 8" and 30" above ground) and return disconnect handle to the motor operated position.

- b. Move the slide switch from the NORMAL (Unlock) position to the DOOR LOCK (Lock) position, wait 5 seconds, move switch back to the NORMAL (Unlock) position. The opener will beep once. The pet button is now programmed to automatically open the door to this custom height.

**NOTE:** The opener will NOT accept programmed pet lock position if door is below 8" or higher than 30".

**NOTE:** Activation of the normal install routine will reset the pet position to the default 8" target height. For use of the pet button see operation section.

### Multi-Door Programming:

Momentarily pressing the button programmed in the transmitter programming step activates the door. Other buttons can also be programmed to activate different doors, for multi-door installations. Each button or a combination of two buttons pressed simultaneously can be programmed to activate a different door. Only one button at a time can be programmed to activate a specific opener. The transmitter LED will light while any transmitter button remains pressed.

### Custom Upper Limits

Disconnect door and manually move it to the desired upper limit.

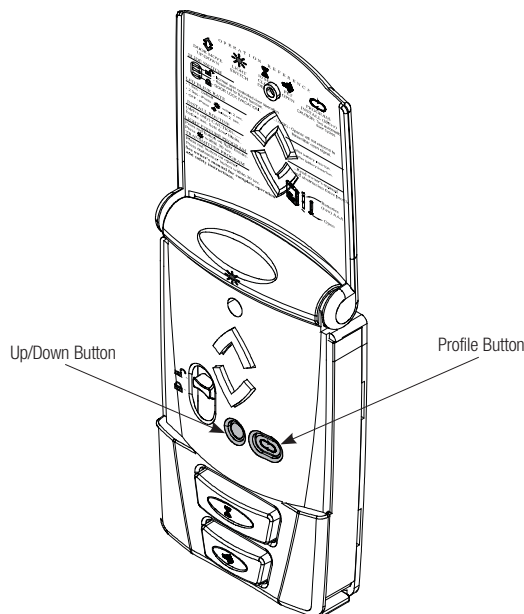
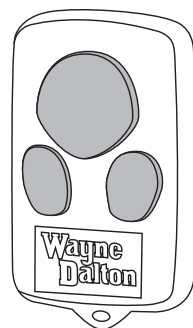
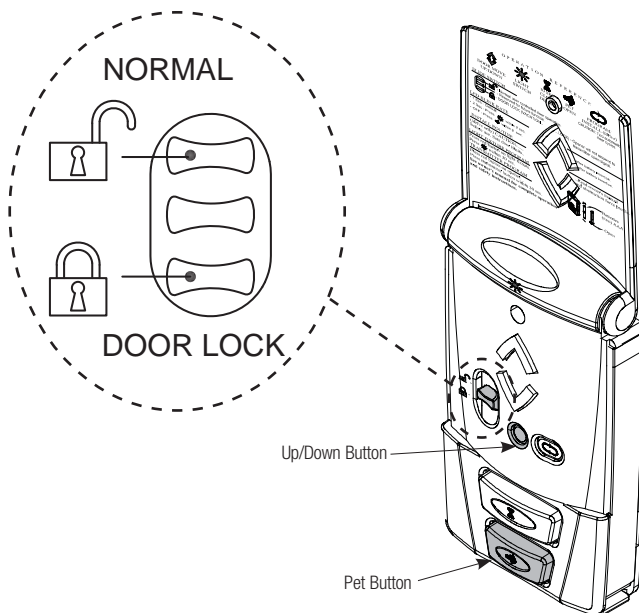
**NOTE:** The door must be positioned more than halfway open. Reconnect door.

**Press and hold the profile button for five (5) seconds.** The opener will beep twice, indicating the activation of the install routine. The door will now move to the closed position. Then, the door will open to the new upper limit.

Next, the door will go down to the closed position. Once this is complete, the door limits are set and the installation is complete.

For more profile options go to page 20 and 21.

**NOTE:** Before performing custom upper limit, first profile must be done from closed position.





## Customizing the Settings Continued

Tools Needed:

### Erasing Remote Controls:

**Caution:** Manually disconnect the door from opener using the emergency disconnect handle prior to erasing remote controls.

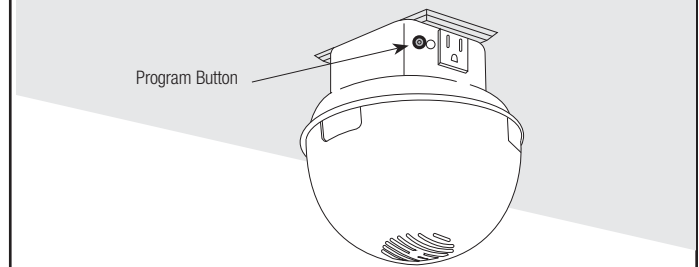
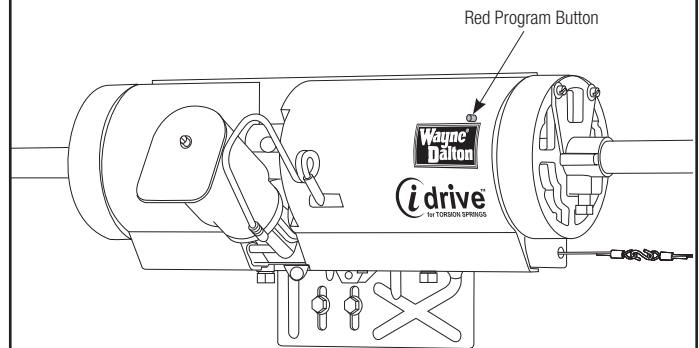
To clear programming of all remote control devices, press and hold the opener's red program button for approximately 10 seconds. When the opener beeps 3 times, all remote controls are erased.

### Multi Opener Light Control:

A single light fixture can be controlled by up to 6 openers. Follow the procedure outlined on Step 29 to program additional openers.

### Erasing Light Fixtures:

To clear programming of all openers from a light fixture, press and hold the light fixture program button for approximately 10 seconds. When the light fixture lamp and LED flash 3 times, all openers are erased.



## Maintenance

Tools Needed:

### Monthly Maintenance:

1. With door fully closed, move the emergency disconnect to the manual door operated position and manually operate door. If the door feels unbalanced or binds, have a qualified service person make necessary adjustments or repairs to the door.
2. Perform the obstruction tests, see Steps 36 and 37.
3. Failure of door/opener to respond to transmitter or wall station, may be due to a weak or dead battery. Replace the battery.

### Battery Replacement for Wall Station:

Remove the battery cover completely (right-hand side of wall station) by disengaging the battery cover's lower clip, and remove the dead batteries. Install the new batteries into the wall station observing the polarity, (+) and (-), of both batteries. After a few seconds, the red LED will begin to blink every three seconds. If it is desired to slow the LED blink rate refer to the operation section HOW TO OPERATE THE WIRELESS WALL STATION. Re-install the battery cover by first inserting its top into the wall station then inserting and securing its bottom.

### Battery Replacement for Transmitter:

Insert a coin and twist in the coin slot of the transmitter and remove cover to access the dead battery. Replace the battery, being careful to match the positive (+) symbols on the circuit boards with the battery.

**NOTE:** Use (1) CR2016 or equivalent battery.

**NOTE:** Dispose of dead battery properly.



## Troubleshooting

Symptom	Probable Cause	Corrective Action
Opener does not respond to the Wall Station or Transmitter.	No power to the Opener. Controls are not programmed.	Check the Opener power cord to outlet connection.  See Steps 28 (Wall Station) Step 38 (Transmitter).
Opener works from the Wall Station but not from the Transmitter.	Transmitter is not programmed. Weak or dead Transmitter battery.	See Step 38.  See Maintenance section for battery replacement. See page 31.
Opener works from the Transmitter but not from the Wall Station.	Wall Station is not programmed. Weak or dead Wall Station battery.	See Step 28.  See Maintenance section for battery replacement. See page 31.
Door does not move and the Opener beeps two times.	The install routine has not been performed.	Perform the install routine Steps 32 and 33.
Door does not move with a Wall Station or Transmitter command and no beeps come from the Opener.  Door does not move with a Wall Station or Transmitter and Opener beeps one time.	Blown fuse or tripped circuit breaker. No power to the Opener. Possible damaged motor wiring.	Reset the circuit breaker or Contact a qualified service person for fuse information.  Check power cord connection. Check motor plug connection.
Door stops or reverses, and the Opener beeps three or four times.	Obstruction encountered. Infrared sensor alignment. Out-of-balance condition detected.	Clear the door path.  Re-align Infrared Sensors see Step 31.  Contact a qualified service person.
Door does not close properly.	Counterbalance cables are not on the drums properly.	Apply constant pressure to the Wall Station's Up/Down Button to close the door.
Door will not close.	Thermal delay: The door has cycled eight times in a five-minute period. Infrared sensor alignment. Contact obstruction test failure.	Door will operate after a one-minute waiting period.  Re-align Infrared sensors Step 31.  Apply constant pressure to Wall Station up/down button until door is closed  Repeat the install routine Steps 32 and 33 or contact a qualified service person.
Door does not travel to the full open or full close position.	Door is out of balance. Door limits are set improperly.	Call a qualified service person.  Repeat the install routine Steps 32 and 33.
Door is not sealing to the floor.	Bottom door limit is set too high. Outside door seal is too tight against the face of the door.	Disconnect the Opener and force the door to the floor. Reconnect the Opener and activate the install routine Steps 32 and 33.  Adjust weather seal position.
Motor does not pivot up fully when door is opening.	Counterbalance springs have too much tension (torsion).	Call a qualified service person. Install routine may have to be rerun.
Door is reversing at or near the floor.	Outside door seal is too tight against the face of the door. Counterbalance springs have too much tension (torsion). Vertical track is spaced to close to the bottom door section, causing the door to bind.	Reinstall the door seal so as to be not so tight against the face of the door.  Adjust track away from the door until binding is removed.  Contact a qualified service person.



## Troubleshooting Continued

Symptom	Probable Cause	Corrective Action
Door makes "popping" noise after safety reversal.	Cables on the drum are not aligned in the groove.	Operate the door up/down with the Wall Station, cables will align automatically.
Light fixture will not light during the door operation or by pressing the Wall Station light button.	Faulty light bulb. No power to receptacle. Opener not programmed to light.	Install new bulb (75W Max). Check circuit breakers. Program per Step 29.
Motor does not pull fully up when using the emergency disconnect.	Disconnect Cable has slipped inside of handle.	Re-install handle per instructions in Step 14.
Motor starts but the door will not move.	Opener is disconnected from the Torsion Tube.	Ensure Disconnect Handle is in the Motor Operated Position. Re-install handle per instructions in Step 14.
Motor does not pivot down. Motor pivots partially after the door closes.	Detent Pin is set too hard.	Using a Flat Tip Screwdriver, rotate the Detent Pin counterclockwise in 1/8 turn increments until the Motor fully pivots down after the door closes see Steps 34.
Motor pivots down prematurely (before the door closes completely).	Detent Pin is set too soft.	Using a Flat Tip Screwdriver, rotate detent pin clockwise in 1/8 turn increments; until Motor fully pivots down after door closes, and Opener immediately shuts off Steps 34.
Wall station not operational.	Wall station mounted incorrectly.	Ensure wall station is mounted on a flat surface.
Opener does not respond to wall station or transmitter. Opener chirps 5 times and opener lamp blinks.	Wall station is in 'Door Lock' position.	Move slide switch on wall station to 'Normal' (unlocked) position. See Page 27.



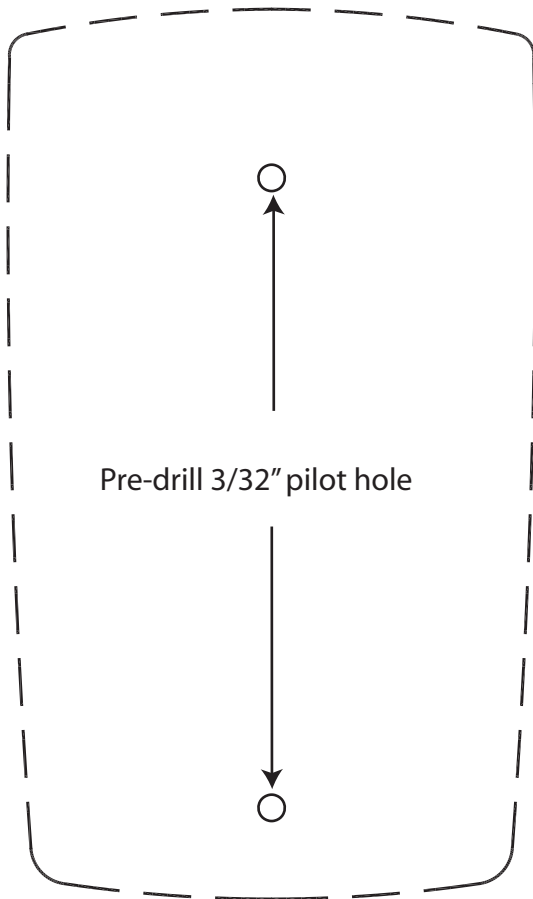
## Lock Troubleshooting

Symptom	Probable Cause	Corrective Action
The door interferes with the lock when manually verifying clearance.	Lock is set incorrectly. The Torsion Tube is not level. Motor not fully rotated up to Detent Pin engaged position.	Ensure lock is set per Step 35. Contact a qualified service person. Remount the Disconnect Handle and Bracket per Step 13 and 14 of this manual, ensuring proper cable tension between the Opener and the Handle.

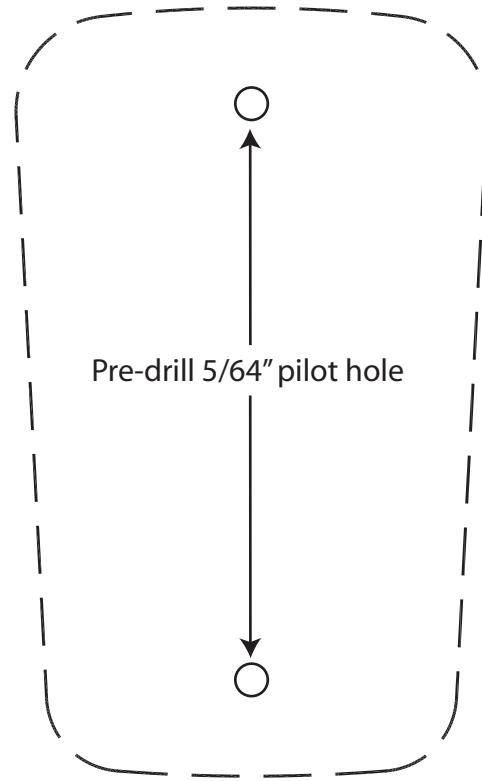




## Cut-Out Template to Aid Installation



Wall Station Template



Keyless Entry Template

**Please Do Not Return This Product To The Store**

Call Us Directly! Our Trained Technicians Will Answer Your Questions and /or Ship Any Parts You May Need

**Call Us Toll-Free:  
(888) 827-3667**

Thank you for your purchase

[www.wayne-dalton.com](http://www.wayne-dalton.com)



Subject to the terms and conditions contained in this Lifetime Limited Warranty, Wayne-Dalton Corp. ("Manufacturer") warrants the opener, including electronic components (Batteries are not warranted), which is described at the top of this page, for a period of FIVE (5) YEARS from the date of installation against:

(i) Any defects in material or workmanship.

The Manufacturer provides a Lifetime Limited Warranty on the motor only, against defects in material and workmanship.

After a period of TWENTY(20) YEARS, from time of installation, replacement of Lifetime Limited Warranty materials will be pro-rated at 50 per cent of Manufacturer's published list pricing at time of claim, and you must pay this amount.

This Limited Warranty is extended only to the person who purchased the product and continues to own the premises (where the opener is installed) as his/her primary residence ("Buyer"). This Limited Warranty does not apply to residences other than primary, or to commercial or industrial installations, or to installations on rental property (even when used by a tenant as a residence). This Limited Warranty is not transferable to any other person (even when the premises is sold), nor does it extend benefits to any other person. As a result this Limited Warranty does NOT apply to any person who purchases the product from someone other than an authorized Wayne-Dalton dealer or distributor.

The Manufacturer will not be responsible for any damage attributable to improper storage, improper installation, or any alteration of the opener or its components, abuse, damage from corrosive fumes or substances, salt spray or saltwater air, fire, Acts of God, failure to properly maintain the opener, or attempt to use the opener, its components or related products for other than its intended purpose and its customary usage. This Limited Warranty does not cover ordinary wear.

THIS LIMITED WARRANTY COVERS A CONSUMER PRODUCT AS DEFINED BY THE MAGNUSON-MOSS ACT. NO WARRANTIES, EXPRESS OR IMPLIED (INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WILL EXTEND BEYOND THE TIME PERIOD SET FORTH IN UNDERSCORED BOLD FACE TYPE IN THIS LIMITED WARRANTY, ABOVE.

- Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Any claim under this Limited Warranty must be made in writing, within the applicable warranty period, to the dealer from which the product was purchased. Unless the dealer is no longer in business, a written claim to the Manufacturer will be the same as if no claim had been made at all.

At the Manufacturer's option, a service representative may inspect the product on site, or Buyer may be required to return the product to the Manufacturer at Buyer's expense. Buyer agrees to cooperate with any representative of the Manufacturer and to give such representative full access to the product with the claimed defect and full access to the location of its installation.

If the Manufacturer determines that the claim is valid under the terms of this Limited Warranty, the Manufacturer will repair or replace the defective product. The decision about the manner in which the defect will be remedied will be at the discretion of the Manufacturer, subject to applicable law. THE REMEDY WILL COVER ONLY MATERIAL. THIS LIMITED WARRANTY DOES NOT COVER OTHER CHARGES, SUCH AS FIELD SERVICE LABOR FOR REMOVAL, INSTALLATION, SHIPPING, ETC.

Any repairs or replacements arranged by Manufacturer will be covered by (and subject to) the terms, conditions, limitations and exceptions of this Limited Warranty; provided, however, that the installation date for the repaired or replaced product will be deemed to be the date the original product was installed, and this Limited Warranty will expire at the same time as if there had been no defect. If a claim under this Limited Warranty is resolved in a manner other than described in the immediately preceding paragraph, then neither this Limited Warranty nor any other warranty from the Manufacturer will cover the repaired or replaced portion of the product.

THE REMEDIES FOR THE BUYER DESCRIBED IN THIS LIMITED WARRANTY ARE EXCLUSIVE and take the place of any other remedy. The liability of the Manufacturer, whether in contract or tort, under warranty, product liability, or otherwise, will not go beyond the Manufacturer's obligation to repair or replace, at its option, as described above. THE MANUFACTURER WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, including (but not limited to) damage or loss of other property or equipment, personal injury, loss of profits or revenues, business or service interruptions, cost of capital, cost of purchase or replacement of other goods, or claims of third parties for any of the foregoing.

- 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.

No employee, distributor, dealer, representative, or other person has the authority to modify any term or condition contained in this Limited Warranty or to grant any other warranty on behalf of or binding on the Manufacturer, and anyone's attempt to do so will be null and void.

Buyer should be prepared to verify the date of installation to the satisfaction of the Manufacturer.

The rights and obligations of the Manufacturer and Buyer under this Limited Warranty will be governed by the laws of the State of Ohio, USA, to the extent permitted by law.

- This Limited Warranty gives you specific legal rights and you may also have other rights, which may vary from State to State.

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#### **Models: 3652-372**

**Made under the following US patents and methods D413,579; D466,141; D472,568; D472,910; D473,573; D473,574; D474,215; D505,393; D517,580; CA 2,348,784; 5,929,580; 6,078,249; 6,145,570; 6,164,014; 6,253,824; 6,263,947; 6,325,134; 6,326,751; 6,326,754; 6,401,792; 6,561,255; 6,561,256; 6,568,454; 6,588,156; 6,605,910; 6,667,591; 6,739,372; 6,845,804; 6,851,465; 6,873,127; 6,880,609; 6,903,650; 7,053,571; 7,061,197; 7,075,256; 7,109,677; 7,123,128; 7,143,804; 7,173,389; 7,173,514; 7,173,516; 7,183,732; 7,190,266; 7,193,502; 7,207,142; 7,211,975; 7,246,647; 7,280,031; 7,327,107; 7,327,108; 7,327,249; 7,358,480; 7,367,160; 7,375,484; 7,375,612; 7,376,401; 7,397,342. Other US and Foreign Patents pending.**

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#### **FCC Regulatory Information:**

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.

#### **IC Regulatory Information:**

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.

**NOTE:** This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of 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 these instructions, may cause harmful interference to radio communication; 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 equipment off and on, user is encouraged to try to correct interference by one or more of the following measures: Reorient or relocate receiving antenna. Increase separation between equipment and receiver. Connect equipment into an outlet on a circuit different from that which receiver is connected. Consult your dealer or/and experienced radio/television technician for help.

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