



Excellence in Compliance Testing

Certification Test Report

**908.42 MHz Low Power Communication Device Transceiver
372 MHz Discrete Receiver**

**FCC ID: KJ8-0001715
IC: 3540A-0001715**

**FCC Rule Part: 15.249
IC Radio Standards Specification: RSS-210**

ACS Report Number: 07-0186 - 15C

**Manufacturer: Wayne-Dalton Corporation
Model: 3790-Z**

Installation Guide *Section 3*

2

Cable Drum/ Drive Gear Installation

Tools Needed:
Step Ladder

NOTE: If you just installed the Torquemaster® Plus counterbalance, continue with Step 5 on page 13. If you have the Torquemaster® counterbalance system, complete Steps 2-4 on pages 11 and 12.

Shake the torque tube gently to extend the winding shafts out about 5" on each side. For single spring applications, there will be no left hand spring in the torque tube.

Lift the torque tube and rest it on the top of the flagangles. Orient torque tube so that back of opener is flat against header/ mounting surface.

NOTE: Cable drums and torque tube are cam shaped to fit together only one way.

Pre-wrap the Torquemaster® cable drum with the counter balance cable 1/2 wrap (see illustrations).

To install the cable drum, slide the cable drum over the winding shaft until the cable drum seats against the torque tube. The winding shaft must extend past the cable drum far enough to expose the splines and the groove.

Align the winding shaft groove with the round notch in the flagangle. Repeat for opposite side for double spring applications.

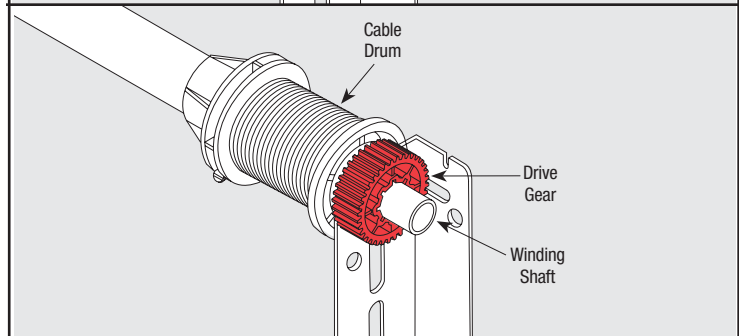
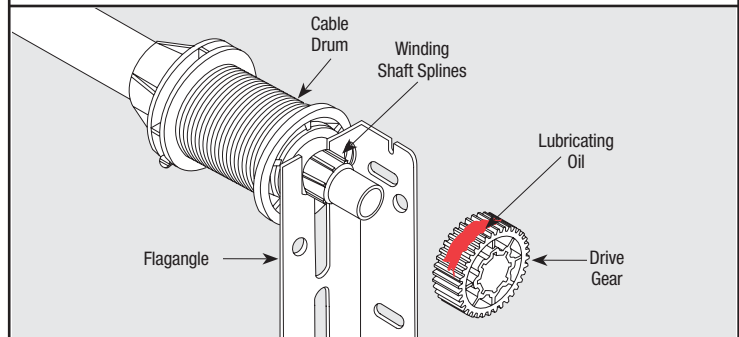
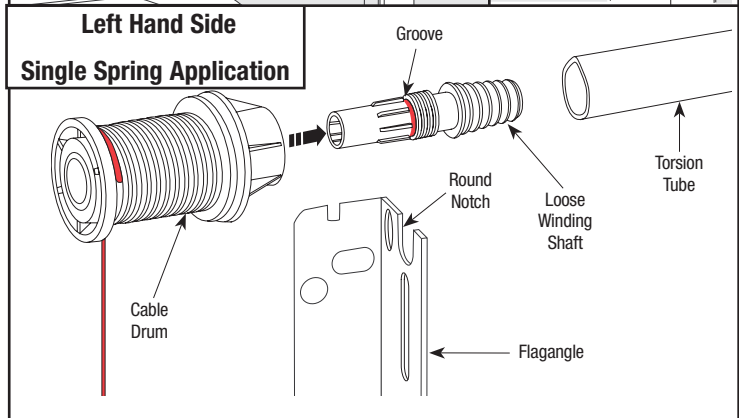
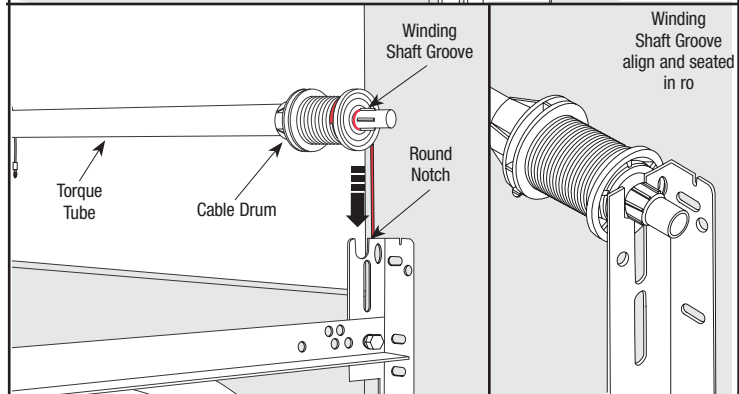
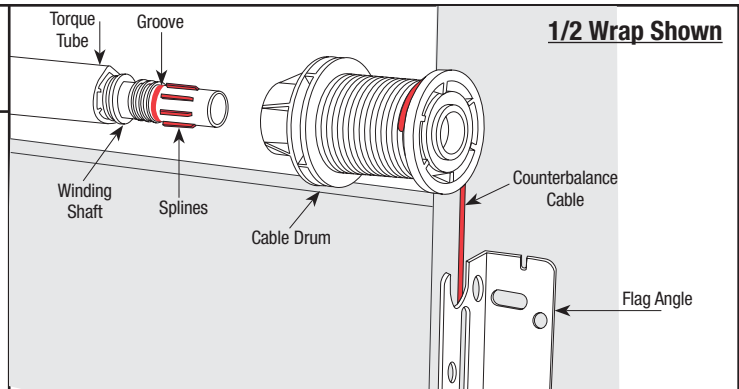
For single spring applications, insert the loose winding shaft into the left hand cable drum prior to sliding the cable drum over the torque tube.

NOTE: On single spring applications, take care in handling the loose winding shaft (left side) so that it does not slide back into the torque tube.

Beginning with the right hand side, lubricate entire circumference of the drive gear with lubricating oil. Slide the drive gear onto the winding shaft splines until it touches the flagangle.

NOTE: On single spring applications, no drive gear is required on the left side.

NOTE: If additional lubricating oil is required "Dura-Lube Engine Oil Treatment" is recommended.



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3

End Bracket Installation

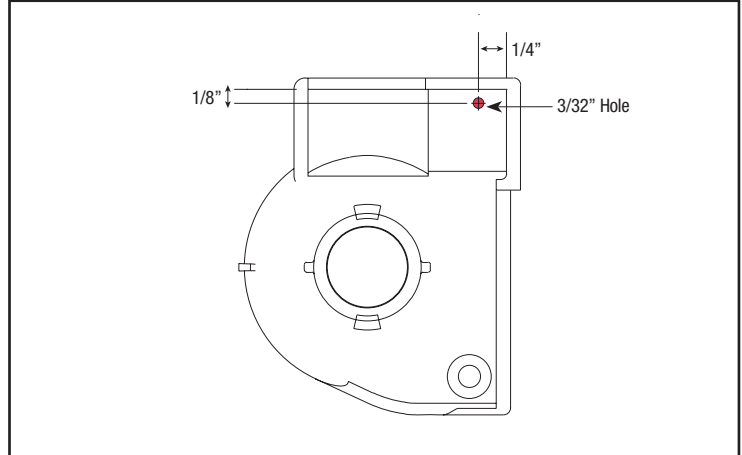
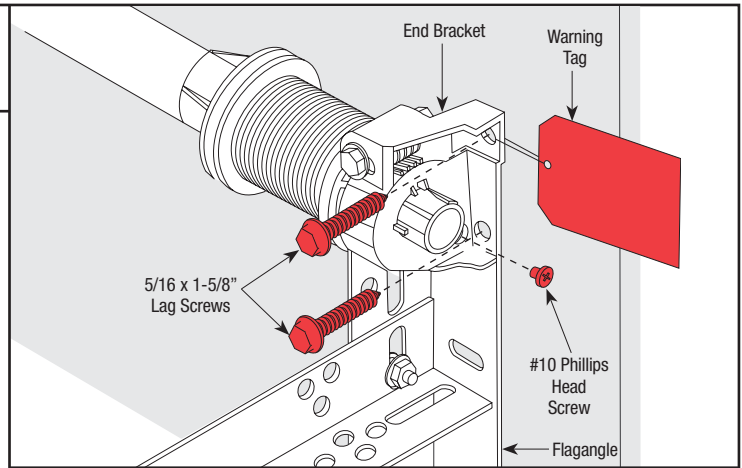
Tools Needed:

Power Drill
3/32" Drill Bit
7/16"
Socket Driver
Phillips Head
Screwdriver
Step Ladder

IMPORTANT! WARNING TAGS MUST BE SECURELY ATTACHED TO BOTH END BRACKETS.

Slide the right hand end bracket over the drive gear. Replace #10 phillips head screw that was removed in Step R3. Secure end bracket and the flagangle to the jamb using (2) 5/16" x 1-5/8" lag screws.

NOTE: Older end brackets may not have a hole needed for the opener's emergency disconnect cable. If the right hand end bracket does not have a hole for the disconnect cable, drill a 3/32" (3mm) hole as shown prior to installing the end bracket.



4

Counter Installation

Tools Needed:

Step Ladder

Install the right side counter gear, with the missing tooth toward the outside and away from the end bracket. Press the counter gear onto the end bracket until snaps engage.

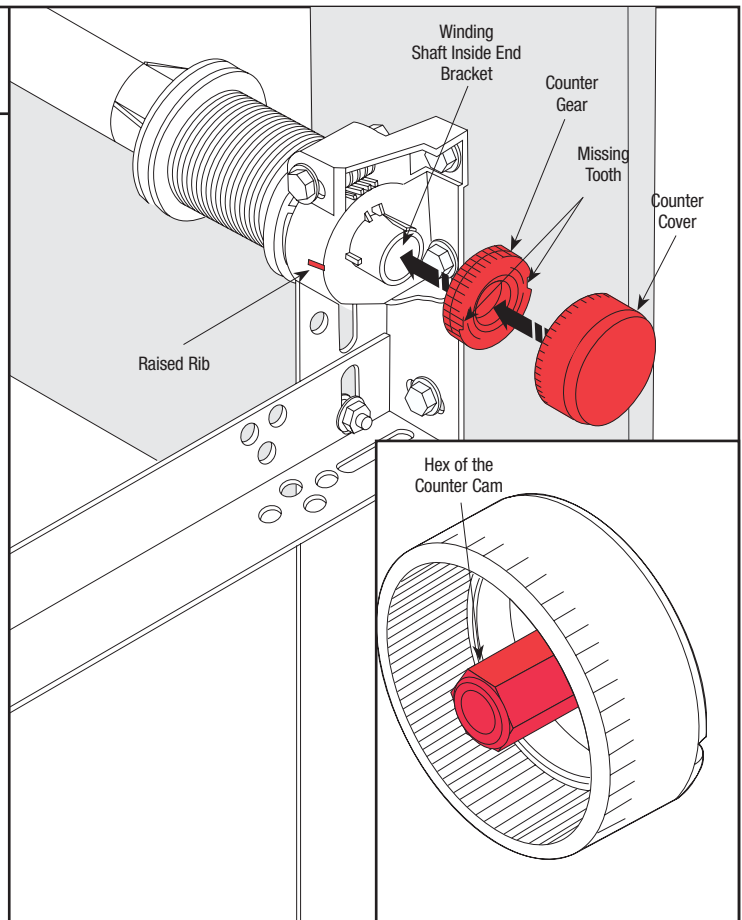
Select the right hand counter cover and align the hex of the counter cam with the end of the winding shaft. Also, align the "0" on the counter cover with the raised rib on the end bracket. Press the counter cover against the counter gear until it locks into place.

Repeat for left hand side for double spring applications.

NOTE: No drive gear, counter gear or counter cover is required on left hand side for single spring applications. Only an end bracket is needed.

IMPORTANT! AT THIS TIME DO NOT WIND COUNTERBALANCE SPRINGS!

After completing this step, continue with Step 5 on page 13.



5

Positioning Support Bracket

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

NOTE: iDrive® must be installed on a solid mounting surface.

Locate the mounting surface. The mounting surface is a vertical board running directly above the center of the door. Remove (2) 1/4"-20 flange nuts from bottom of opener.

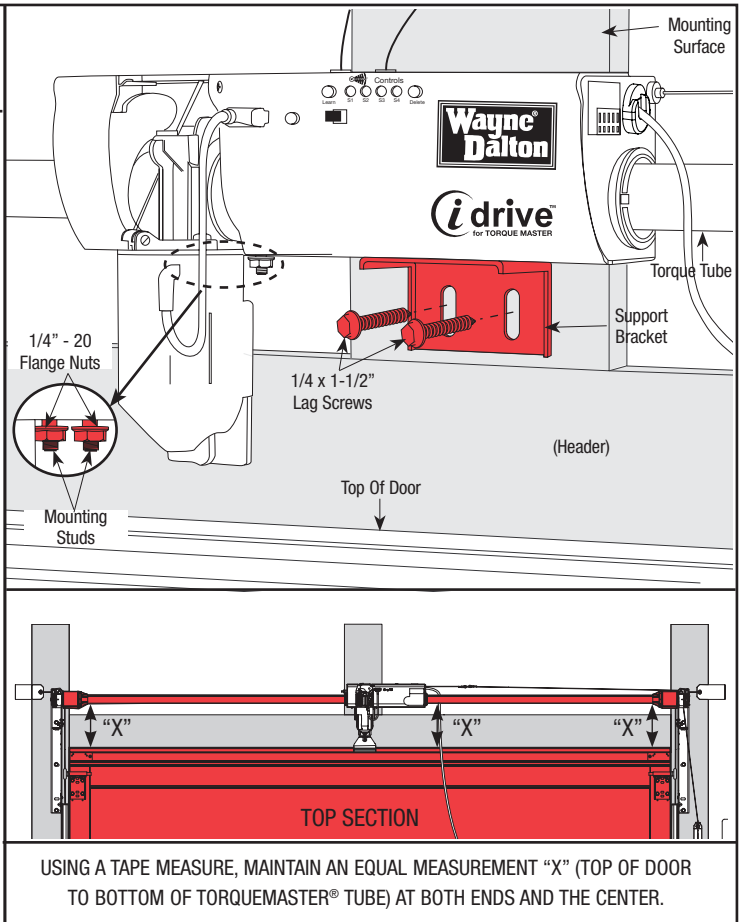
NOTE: Do not discard flange nuts.

Place the support bracket underneath opener, to the right side of motor, centered on mounting surface.

Using a tape measure, maintain equal measurements between torque tube and top of door at both ends and in center to ensure torque tube is level. Once torque tube is level, with iDrive resting on support bracket, drill 1/8" pilot holes for the lag screws.

Now secure support bracket to the mounting surface with (2) 1/4" x 1-1/2" lag screws.

NOTE: If wood mounting surface is covered with dry wall, use 1/4" x 2" lag screws.



6

Attaching Opener To Support Bracket

Tools Needed:
 Step Ladder

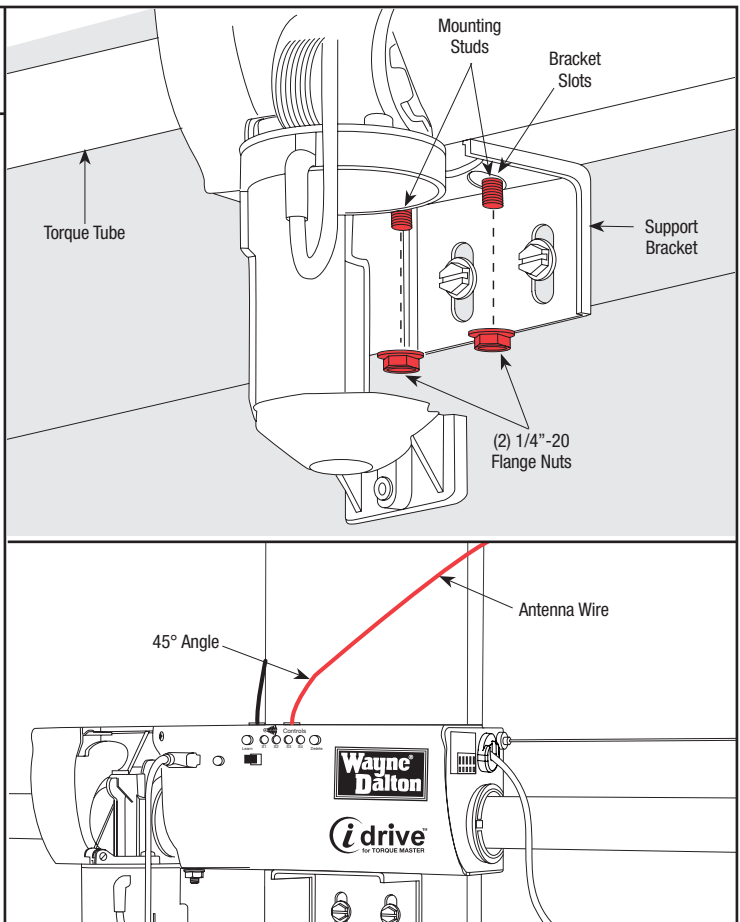
Lift and slide the opener over the support bracket, aligning the mounting studs with the bracket slots. Loosely fasten to mounting studs with the (2) 1/4"-20 flange nuts.

Alternately, the disconnect cable can be pulled to allow motor to pivot up. This will enable assembly of the support bracket to the opener first, followed by leveling of the torque tube and then attachment of support bracket to mounting surface.

NOTE: Do not tighten 1/4"-20 flange nuts to opener studs at this time.

Remove the orange label holding the antenna wire. Straighten antenna wire and angle it 45 degrees to the right.

NOTE: Do not coil the antenna wire. This will reduce the radio signal range.



7

Attaching Disconnect Cable

Tools Needed:

Power Drill

1/8" Drill Bit

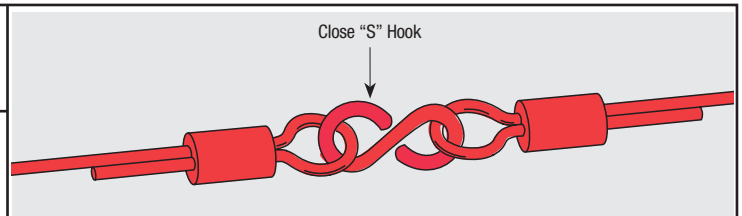
7/16" Socket
Driver

Tape Measure

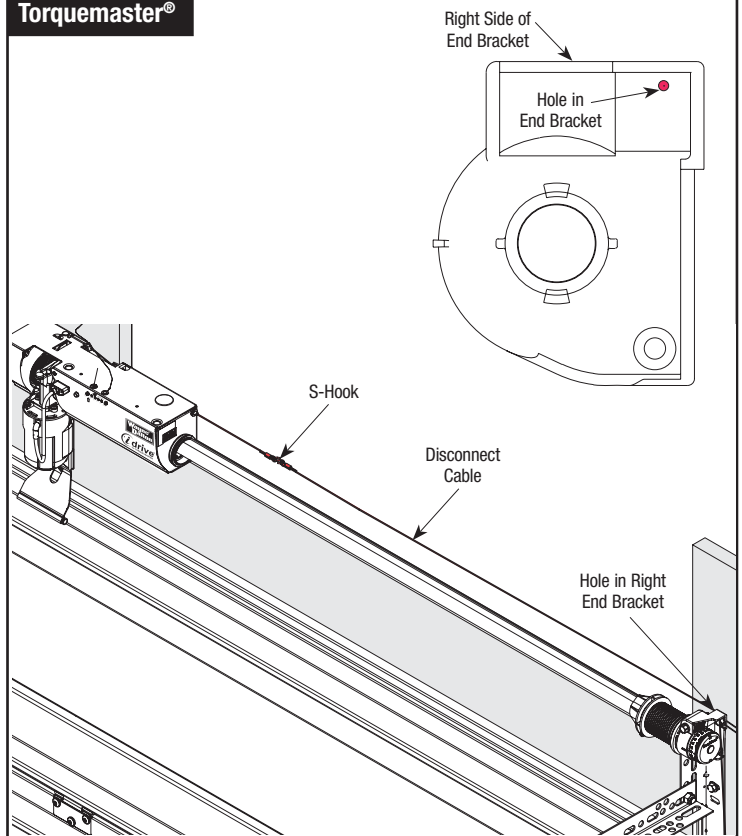
Step Ladder

Attach the loose disconnect cable (located in opener hardware bag) to the opener with the "S" hook. Close both ends of the "S" hook with pliers, to lock assembly together with pliers.

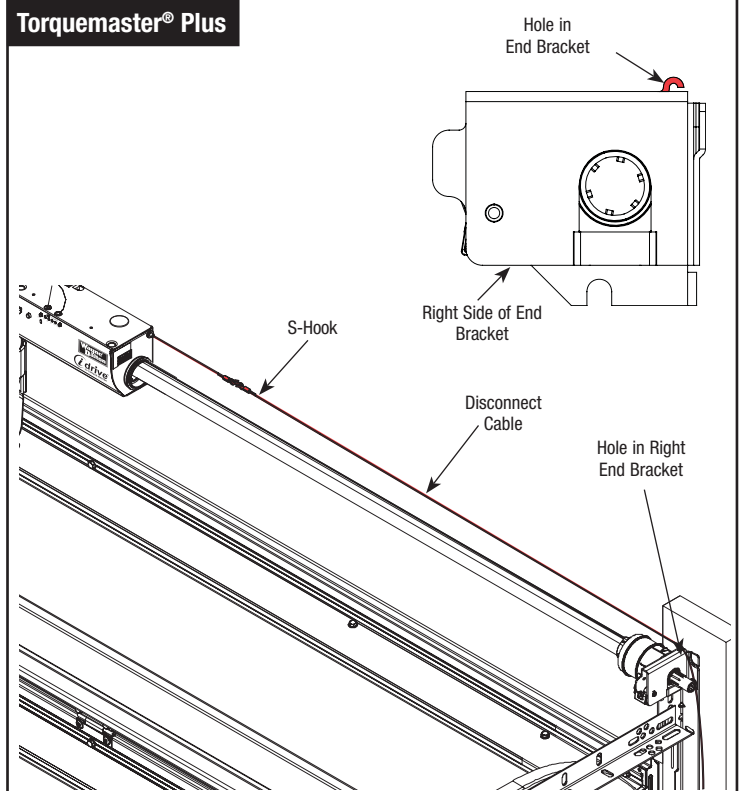
Thread the disconnect cable (behind the counterbalance cable) through the hole in the right hand end bracket, and remove all slack between opener and right end bracket.



Torquemaster®



Torquemaster® Plus



8

Mounting Disconnect Handle Bracket

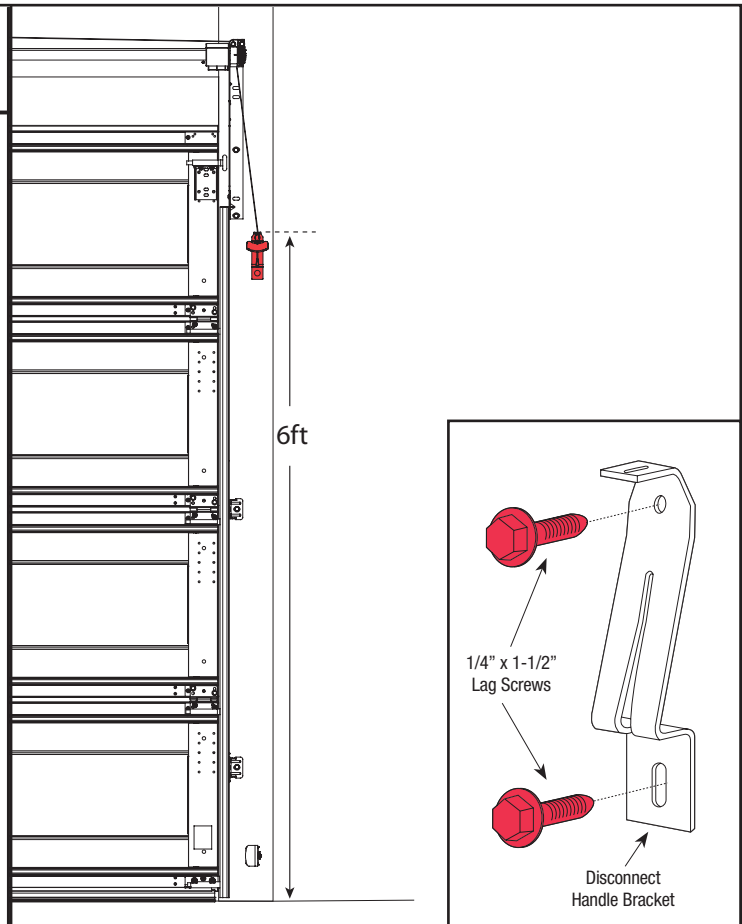
Tools Needed:

- Pencil
- Tape Measure
- Power Drill
- 1/8" Drill Bit
- 7/16" Socket Driver

Mark a location on the right jamb, 6 feet above the floor to mount the disconnect handle bracket.

Pilot drill lag screw location using 1/8" drill bit.

Align top of the bracket with the mark.
Fasten bracket to the jamb with (2) 1/4" x 1-1/2" lag screws.



9

Attaching Disconnect Handle

Tools Needed:

- Phillips Head Screwdriver
- Wire Cutters
- Flat Blade Screwdriver

NOTE: The motor must be in the fully down position before setting handle position on cable. Bring motor to the down position by pulling the disconnect cable while pushing the motor down. Insure opener disconnect teeth are engaged before installing disconnect handle. If motor is not fully down when teeth are engaged, turn motor shaft with screwdriver at back of motor counter clockwise until motor is fully down.

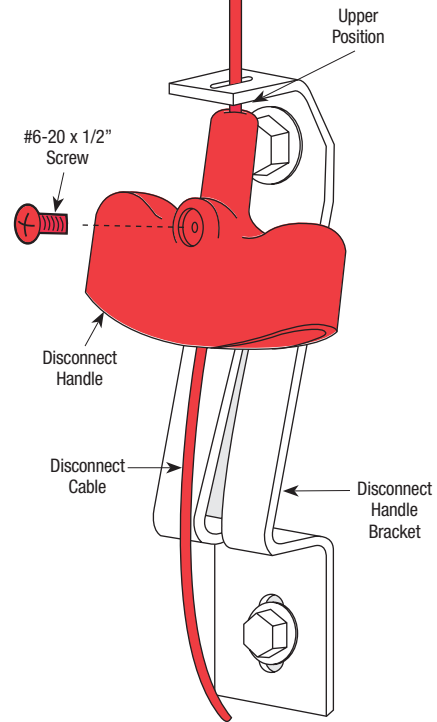
NOTE: Do not use power drill to assemble set screw to handle.

Start the #6-20 x 1/2" screw into the disconnect handle. Thread the disconnect cable through the top of the disconnect handle bracket and then the disconnect handle.

Locate the disconnect handle in full upper position of disconnect handle bracket.

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

CAUTION: PULL CABLE ONLY TAUT ENOUGH TO REMOVE THE CABLE SLACK. PULLING THE CABLE MORE COULD CAUSE OPENER TO DISCONNECT FROM THE TORQUE TUBE AND CAUSE FAILURE OF THE DISCONNECT.



10

Disconnect Handle Usage

Tools Needed:

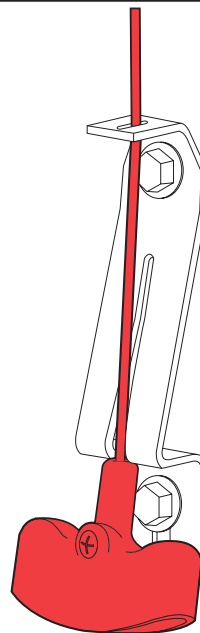
None

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

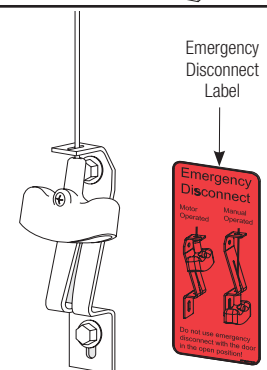
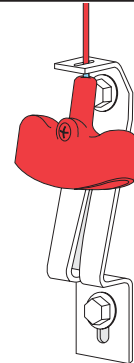
Using the emergency disconnect, pull down on disconnect handle and place it in the manual door operated position (use disconnect label for reference). Motor will be rotated 90° from its packaged position.

If motor does not pivot 90°, see troubleshooting section in this manual.

Manual operated position



Motor operated position



11

Cable Adjustments

Tools Needed:

Pliers/Wire
Cutter

Flat Tip
Screwdriver

Step Ladder

Starting on the right hand side, rotate the cable drum until the set screw faces directly away from the header. Torque tube cam peak should be pointing straight up.

NOTE: Illustrations show the right hand cable drum, left hand cable drum is symmetrically opposite.

NOTE: Cable tension is set during the initial door installation. If there is slack between the counterbalance cable and the cable drum or unequal tension between the right and left hand counterbalance cables, the counterbalance cables will have to be readjusted. If there is no slack and cable tension is equal, proceed to Step 12.

Loosen the set screw no more than 1/2 turn. Using locking pliers, pull on the end of the cable to remove all cable slack.

IMPORTANT! A MINIMUM OF A 1/2 WRAP IS REQUIRED FOR PROPER DOOR OPERATION. CABLE MUST BE TAUT AND IN THE SPIRAL, OR THREAD, OF THE CABLE DRUM.

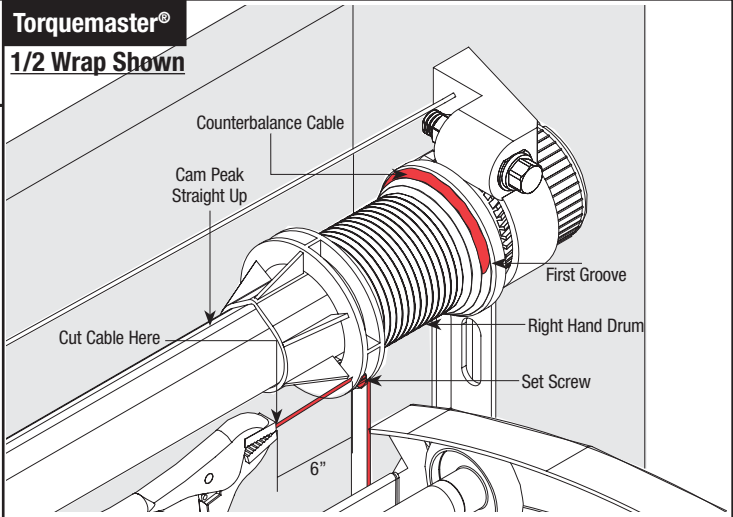
Check to ensure the cable is aligned and seated in the first groove of the cable drum. Snug the set screw, and then tighten an additional 1-1/2 turns. Left side will be adjusted in Step 13.

IMPORTANT! ENSURE THE CABLE IS ALIGNED AND SEATED IN THE FIRST GROOVE OF THE CABLE DRUM PRIOR TO WINDING SPRINGS.

Measure approximately 6" of cable, cut off excess cable, tuck end into cable drum (Torquemaster®) or insert end in hole of cable drum (Torquemaster® Plus).

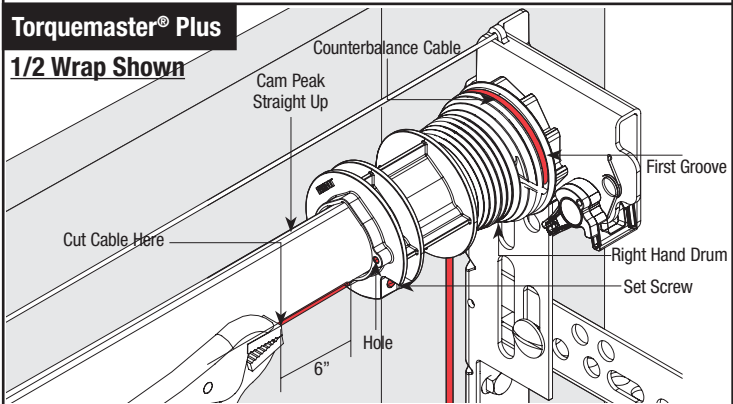
Torquemaster®

1/2 Wrap Shown

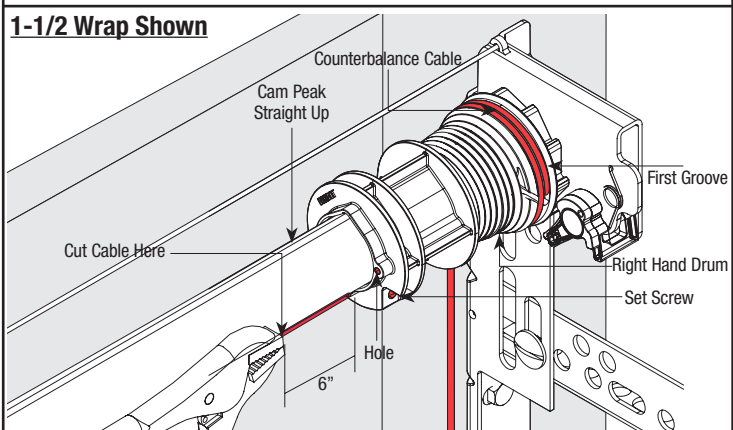


Torquemaster® Plus

1/2 Wrap Shown



1-1/2 Wrap Shown



12

Securing Door for Spring Winding

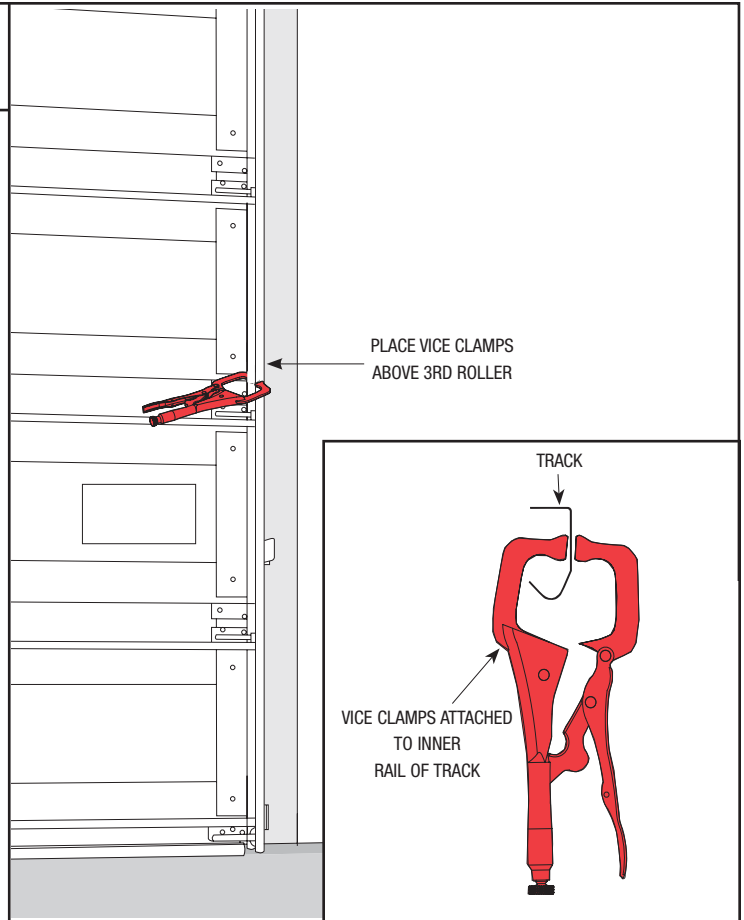
Tools Needed:
Vice Clamps

Place vice clamps onto both vertical tracks just above the third roller. This is to prevent the garage door from raising while winding the springs.

WARNING

FAILURE TO CLAMP TRACK CAN ALLOW DOOR TO RAISE UNEXPECTEDLY, RESULTING IN SEVERE OR FATAL INJURY.

IMPORTANT! DO NOT USE IMPACT GUN TO WIND SPRING(S)



13

Winding Spring(s)

Tools Needed:

5/8" Socket

Ratchet Wrench

3" Extension

Step Ladder

NOTE: If you have a Torquemaster® counterbalance, skip this step and continue with Step 13 on page 21.

NOTE: It is recommended that leather gloves be worn while winding the TorqueMaster® Plus springs.

⚠ WARNING

FAILURE TO WEAR GLOVES MAY CAUSE INJURY TO HANDS.

See chart on page 20 for proper spring tension setting.

Double check to ensure the counterbalance cable is aligned in the first groove of the cable drum, as shown in Step 11.

IMPORTANT! PAWL KNOB MUST BE IN UPPER POSITION TO ADD/ REMOVE SPRING TURNS. AFTER ADDING / REMOVING SPRING TURNS, PAWL KNOB MUST BE PLACED BACK IN LOWER POSITION.

Beginning with the right side, place a mark on winding shaft (or socket) and end bracket. Turn pawl knob on the end bracket to the upper position. Using a ratchet with a 5/8" socket, wind the spring by rotating the winding shaft counter clockwise, while watching the mark on the winding shaft.

NOTE: A 3" extension is also recommended for added clearance from the horizontal angle.

After 2-3 turns, remove the ratchet and adjust the cable on the left side. Ensure the cable is in the first groove of the cable drums as shown in Step 11 and clear of any obstructions.

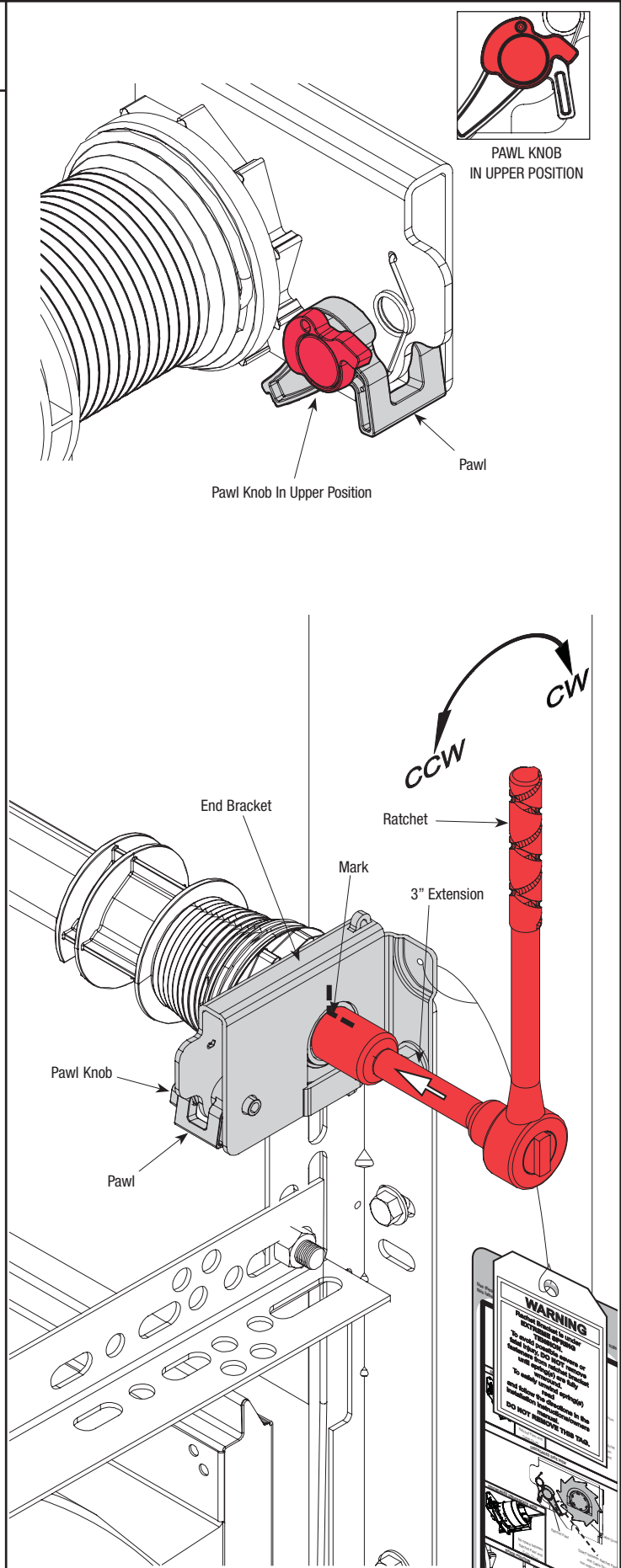
NOTE: Single spring applications require no spring winding on left hand side, but need cable tension adjusted.

IMPORTANT! ENSURE COUNTERBALANCE CABLE TENSION IS EQUAL FOR BOTH SIDES PRIOR TO FULLY WINDING SPRING(S) TO APPROPRIATE NUMBER OF TURNS. IF CABLE TENSION IS UNEQUAL, REFER TO STEP 11.

See the **Spring Turn** chart.

For **SINGLE SPRING** applications, return to the right hand side and continue winding the spring to the required number of turns for your door or the number record during the Pre-Installation Inspection on page II. Place pawl knob in lower position.

For **DOUBLE SPRING** applications, place a mark on the left hand winding shaft and end bracket. Place the ratchet with 5/8" socket onto the left hand winding shaft end.



Winding Spring(s) (Continued)

Tools Needed:

To wind the spring, rotate the winding shaft clockwise, while watching the mark on the winding shaft (or socket). Rotate the winding shaft to the required number of turns for your door or the number recorded during the Pre-Installation Inspection on page II. Place ratchet pawl in lower position. Then return to the right hand side and wind the right hand spring to the required number of turns or the number recorded during the Pre-Installation Inspection on page II. Place ratchet pawl in lower position.

IMPORTANT! DO NOT OVERWIND SPRINGS.

NOTE: Since total turns to balance door can deviate from spring turn chart values by $\pm 1/2$ turns, adjustments to the recommended number of spring turns may be required AFTER rear hangers assembly is completed.

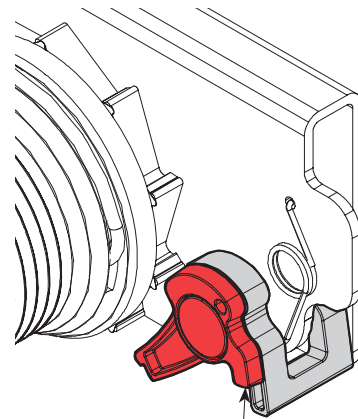
IMPORTANT! HOLD THE DOOR DOWN TO PREVENT IT FROM RAISING UNEXPECTEDLY IN THE EVENT THE SPRING WAS OVERWOUND AND CAUTIOUSLY REMOVE VICE CLAMPS FROM VERTICAL TRACKS.

IMPORTANT! ADJUSTMENTS TO THE RECOMMENDED NUMBER OF TURNS MAY BE REQUIRED. IF DOOR RAISES OFF THE FLOOR UNDER SPRING TENSION ALONE, THEN REDUCE SPRING TENSION UNTIL DOOR RESTS ON THE FLOOR. IF THE DOOR IS HARD TO RAISE OR DRIFTS DOWN ON ITS OWN, THEN ADD SPRING TENSION. AN UNBALANCED DOOR CAN CAUSE IDRIVE® OPERATION PROBLEMS.

IMPORTANT! IF YOU ARE INSTALLING THE IDRIVE® OPENER ON A NEW GARAGE DOOR, REAR SUPPORTS WILL NEED TO BE FABRICATED/ INSTALLED TO SUPPORT THE HORIZONTAL TRACKS. REAR SUPPORTS ARE CONSTRUCTED USING PERFORATED ANGLES, HEX HEAD BOLTS/NUTS AND THEN THE MUST BE SECURELY ATTACHED TO SOUND FRAMING MEMBERS WITH LAG SCREWS. FOR DETAILED INFORMATION ON CONSTRUCTING/ SUPPORTING THE REAR SUPPORTS, REFER TO YOUR DOORS INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL.

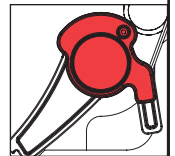
RECOMMENDED SPRING TURNS

Door Height	Spring Turns
6'-0"	14
6'-3"	14-1/2
6'-5"	15
6'-6"	15
6'-8"	15-1/2
6'-9"	15-1/2
7'-0"	16
7'-3"	16-1/2
7'-6"	17
7'-9"	17-1/2
8'-0"	18



Pawl Knob In Lower Position

PAWL KNOB
IN LOWER POSITION



14

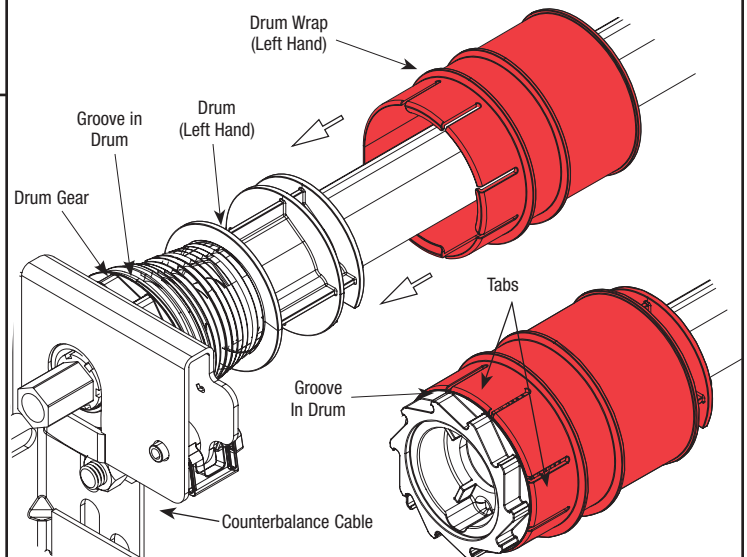
Drum Wrap Installation

Tools Needed:
Step Ladder

To install drum wraps, position the left hand drum wrap over the left hand drum, align with counterbalance cable; slide groove in drum wrap towards the left until tabs snap over drum in between drum and Drum gear. Repeat for right hand side.

IMPORTANT: Right and left hand are always determined from inside the building looking out.

After completing this Step, continue with Step 15 on page 22.



13

Setting Spring Tension

Tools Needed:

- Power Drill
- 7/16" Socket Driver
- 7/16" Wrench
- Step Ladder

See chart below for proper spring tension setting.

Beginning with the right hand side, ensure the counterbalance cable is in the first groove of the cable drum. **NOTE:** Apply light pressure to the canoe clip on counter while winding springs.

Using a power drill (high torque/gear reduced to 1300 RPM preferred) with a 7/16" socket driver, carefully rotate right hand winding bolt clockwise, until counter shows 2-3 turns. This will keep the counterbalance cable taut while adjusting the left hand side counterbalance cable.

Adjust left hand counterbalance cable tension (Refer to step 11).

NOTE: Single spring applications require no spring winding on left hand side, but need cable tension adjusted.

IMPORTANT! Ensure counterbalance cable tension is equal for both sides prior to fully winding spring(s) to appropriate number of turns. If cable tension is unequal, refer to Step 11.

See the **Spring Turn** chart.

For SINGLE SPRING applications, return to the right hand side and carefully rotate the winding bolt head clockwise until the counter shows the correct number of turns for your door or the number record during the Pre-Installation Inspection on page 11.

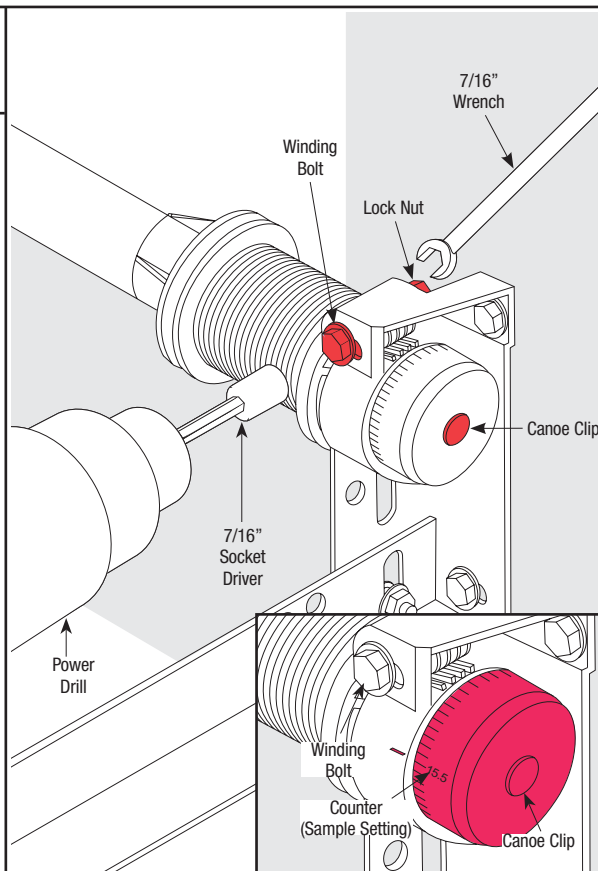
For DOUBLE SPRING applications, remain on the left hand side and carefully rotate the winding bolt head clockwise until the counter shows the correct number of turns for your door or the number record during the Pre-Installation Inspection on page 11. Then return to the right hand side and wind the right hand spring to the required number of turns for your door or the number recorded during the Pre-Installation inspection on page 11.

IMPORTANT! DO NOT OVERWIND.

After spring is wound, hold the lock nut (in back of end bracket) stationary with a 7/16" wrench while rotating the winding bolt clockwise until snug. Tightening of the lock nut prevents spring from unwinding. Repeat for opposite side on double spring Torquemaster® systems.

IMPORTANT! CAUTIOUSLY REMOVE VICE CLAMPS FROM VERTICAL TRACKS. ADJUSTMENTS TO THE RECOMMENDED NUMBER OF TURNS MAY BE REQUIRED. IF DOOR RAISES OFF THE FLOOR UNDER SPRING TENSION ALONE, THEN REDUCE SPRING TENSION UNTIL DOOR RESTS ON THE FLOOR. IF THE DOOR IS HARD TO RAISE OR DRIFTS DOWN ON ITS OWN, THEN ADD SPRING TENSION. AN UNBALANCED DOOR CAN CAUSE IDRIVE® OPERATION PROBLEMS.

IMPORTANT! IF YOU ARE INSTALLING THE IDRIVE® OPENER ON A NEW GARAGE DOOR, REAR SUPPORTS WILL NEED TO BE FABRICATED/ INSTALLED TO SUPPORT THE HORIZONTAL TRACKS. REAR SUPPORTS ARE CONSTRUCTED USING PERFORATED ANGLES, HEX HEAD BOLTS/NUTS AND THEN THE MUST BE SECURELY ATTACHED TO SOUND FRAMING MEMBERS WITH LAG SCREWS. FOR DETAILED INFORMATION ON CONSTRUCTING/ SUPPORTING THE REAR SUPPORTS, REFER TO YOUR DOORS INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL.



NOTE: For 7' high doors, 8', 9', 10', 16' or 18' wide with windows, the recommended number of spring turns is 15.

RECOMMENDED SPRING TURNS		
Door Height	Doors 11'-11" Wide or Less	Doors 12' Wide or Greater
6'-0"	13-1/2	14
6'-3"	14	14-1/2
6'-5"	14-1/2	15
6'-6"	14-1/2	15
6'-8"	15	15-1/2
6'-9"	15	15-1/2
7'-0"	15-1/2	16
7'-3"	16	16-1/2
7'-6"	16-1/2	17
7'-9"	17	17-1/2
8'-0"	17-1/2	18

IDRIVE® FOR TORQUEMASTER® INSTALLATION

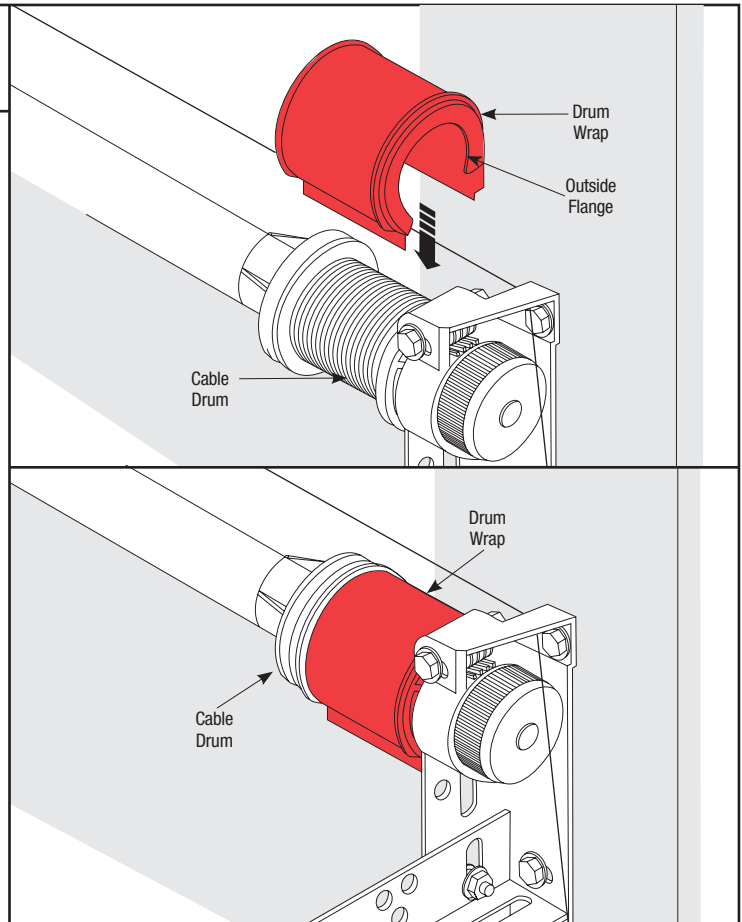
14

Drum Wrap Installation

Tools Needed:
Step Ladder

Drum wraps (supplied with Torquemaster® counterbalance systems) are identified as right and left.

To install, place the drum wrap over the cable drum and under the idrive® disconnect cable. Align the outside flange over the outside edge of the cable drum and push the drum wrap down onto the cable drum.



15

Mounting Wall Station

Tools Needed:
Tape Measure

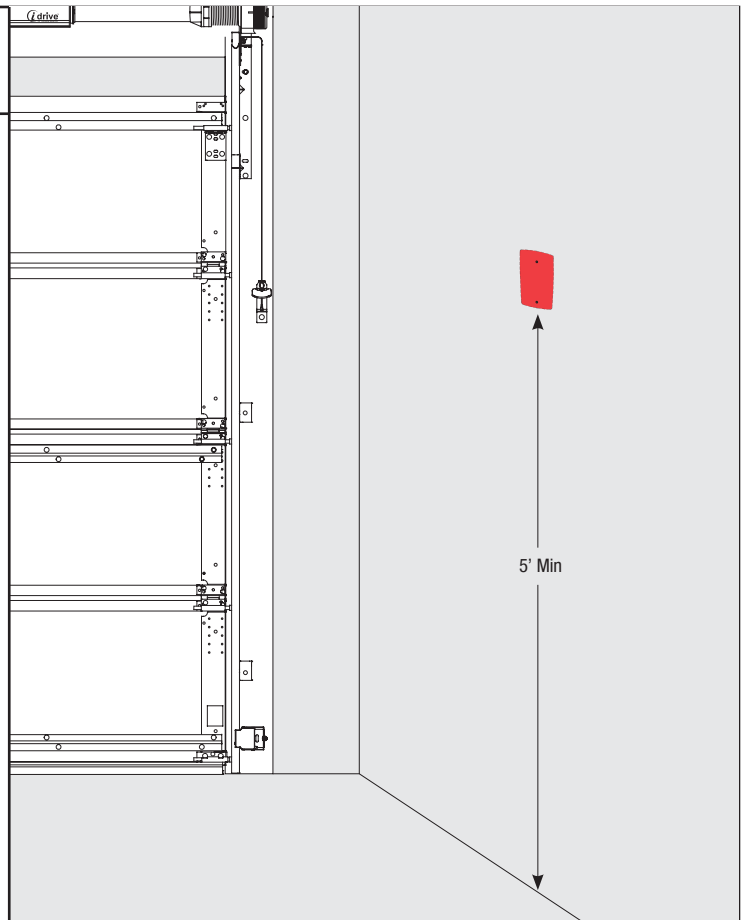
⚠ WARNING

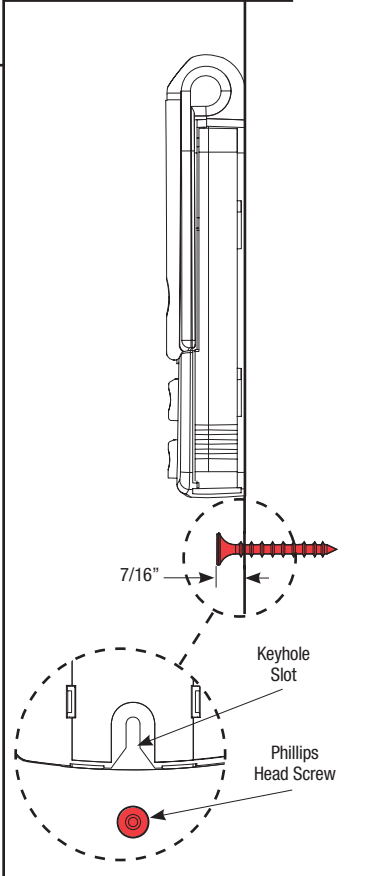
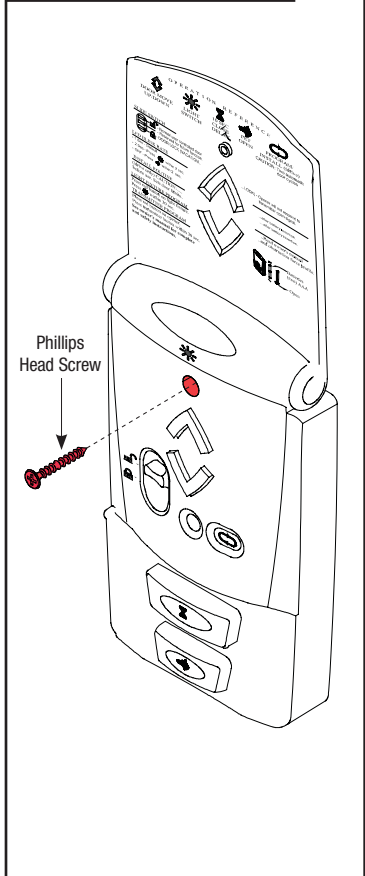
TO PREVENT POSSIBLE INJURY, INSTALL WALL STATION OUT OF THE REACH OF CHILDREN AND IN A LOCATION WHERE THE DOOR CAN BE SEEN WHEN THE OPENER IS ACTIVATED. DO NOT MOUNT WALL STATION NEAR OR NEXT TO GARAGE DOOR.

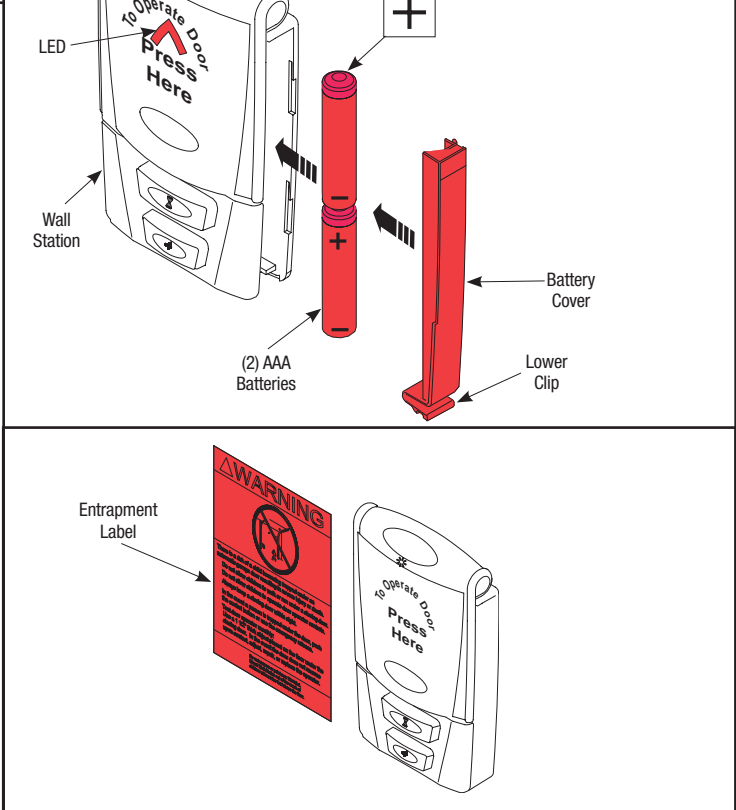
NOTE: For proper operation, mount the wall station on a flat surface.

The wall station can be mounted to a NEMA standard electrical device box or directly to any wall surface. No wiring is required.

Select appropriate place to mount wall station. To keep wall station out of the reach of children, locate it at least five feet up from the floor.



	Mounting Wall Station (Continued)	Lower Screw Installation	Upper Screw Installation
<p>Tools Needed:</p> <p>Power Drill 3/16" or 3/32" Drill Bit Phillips Head Screwdriver</p>	<p>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. If fastening into drywall or concrete, use anchors provided. When mounting to wood use a 3/32" drill bit and the drilling template located on page 46.</p> <p>Drill the two 3/32" mounting holes using the drill template. Drill 3/16" holes if using anchors.</p> <p>Install lower screw leaving 7/16" of the screw exposed. Slide wall station keyhole slot onto the lower phillips head screw. Wall station should slide onto screw, providing a snug fit. If necessary remove wall station and loosen or tighten lower phillips head screw until a snug fit is achieved.</p> <p>Once wall station is fitted on lower screw, install upper screw. Do not over-tighten.</p> <p>CAUTION: Over-tightening the upper screw could deform plastic case.</p>		

16	Installing Battery		
<p>Tools Needed:</p> <p>None</p>	<p>Remove the battery cover (right-hand side of wall station) by disengaging the battery cover's lower clip.</p> <p>Install two AAA batteries into the wall station observing the polarity, (+) and (-), of both batteries. After about three seconds, the red LED will begin to blink momentarily every three seconds.</p> <p>Re-install the battery cover by first inserting its top into the wall station then inserting and securing its bottom.</p> <p>Apply entrapment warning label in a convenient location next to the wall station. Use mechanical fasteners if adhesive will not adhere.</p> <p>NOTE: To slow blink rate or turn off the red LED, refer to wall station operation page 35 "Backlit LED Light".</p>		

PRE-OPERATION

17

Installing the Light Fixture

Tools Needed:

Phillips Head
Screwdriver

Flat Tip
Screwdriver

Step Ladder

⚠️ 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 GROUNDING TYPE OUTLET. DO NOT ALTER THE PLUG IN ANY WAY.

⚠️ WARNING

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

IMPORTANT! GARAGE DOOR MUST CLEAR LIGHT FIXTURE WHEN THE DOOR IS IN THE OPEN POSITION.

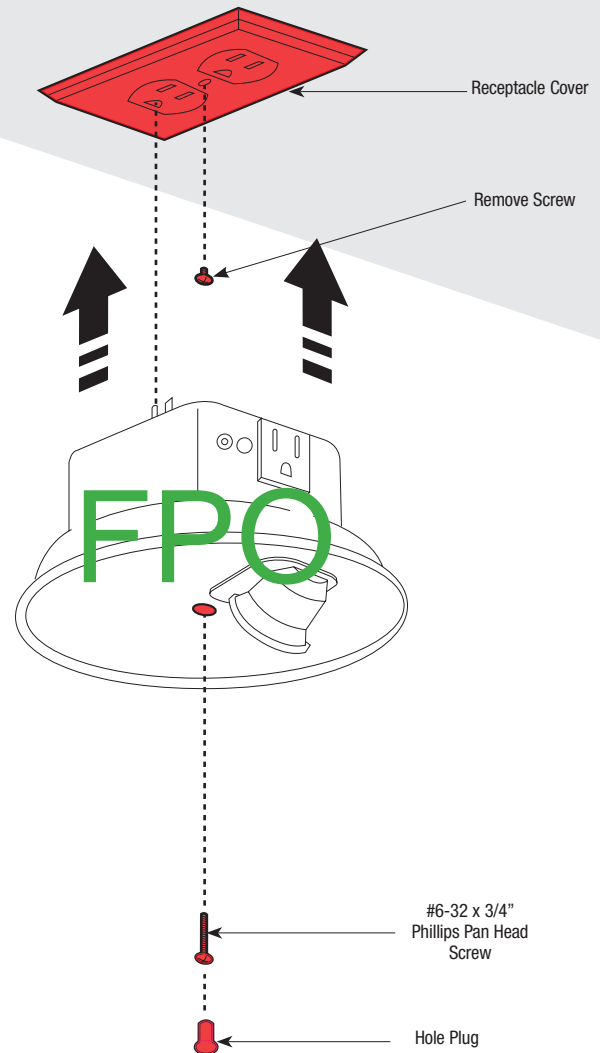
The light fixture is designed to mount directly to a standard 120V duplex receptacle.

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

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

Install 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.



18

Attaching Diffuser

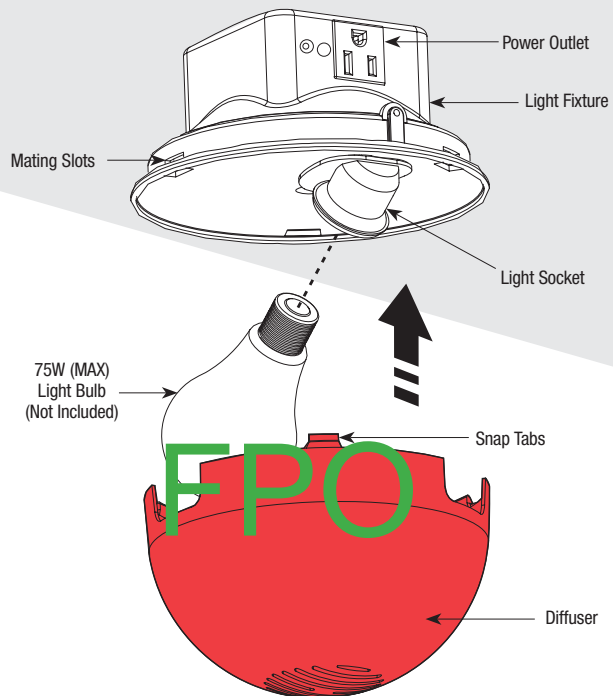
Tools Needed:
Step Ladder

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.



19

Connecting Opener Power Cord

Tools Needed:
Phillips Head Screwdriver
Step Ladder

⚠ WARNING

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT CHANGE THE POWER CORD PLUG IN ANYWAY.

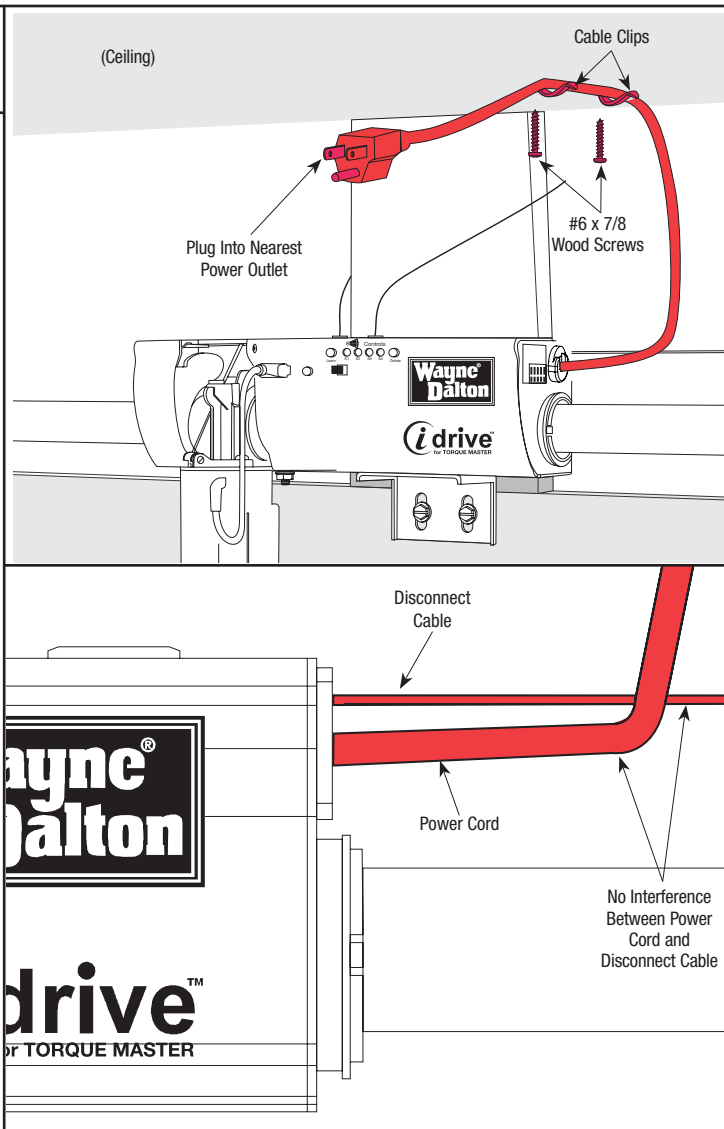
The opener can be permanently wired. To permanently wire the unit, see Permanent Wiring option on page 40.

Plug the end of the power cord into the closest grounding type receptacle. Otherwise, contact a service person for further options. Excess power cord length must be routed and contained safely away from any moving parts.

As soon as power is applied to the opener, it should beep two times.

NOTE: Do not permanently attach power cord to building!

NOTE: Use only the flexible cable clips supplied with the opener.



PRE-OPERATION

20

Safety Sensors Installation 8000 Series Doors (Not Required On 9000 Series Doors)

Tools Needed:
Tape Measure
Power Drill
3/16" Bit
7/16" Socket Driver
7/16" Wrench
Pencil

NOTE (Per UL): Safety sensors are required if opener is installed on a non-pinch resistant door. If your door is pinch resistant, skip this step and proceed with Step 23.

- a.** Select and mark with a pencil, a suitable mounting location no more than **5 inches** above the floor to the 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 mounting brackets be mounted at the same height for proper alignment.

IMPORTANT! BOTH WALL BRACKETS MUST BE MOUNTED AT THE SAME HEIGHT FOR PROPER ALIGNMENT.

- b.** Drill pilot holes, using a 3/16" drill bit. Using two 5/16" x 1-1/2" lag screws, 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.

- c.** 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, AND THIS POSITIONING WILL HELP REDUCE THE ADVERSE EFFECT SUNLIGHT MAY HAVE ON THE SENSOR UNIT.

