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

Section4

21

Sensor Wire Installation
(Required on 8000 Series Doors)

Tools Needed:

Flat Tip Screwdriver

Pliers/Wire Cutters

Uncoil wires from photoelectric sensors and route wires up garage wall and along door header towards the right side of the opener.

Route wires behind torque tube and tack wires in place with insulated staples (not supplied).Take care to run wires in a location where they will not interfere with the operation of the door.
Do Not Staple Through Wire.

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

NOTE: Take care to run wires in a location where they will not interfere with the operation of the door and do not staple through wire.

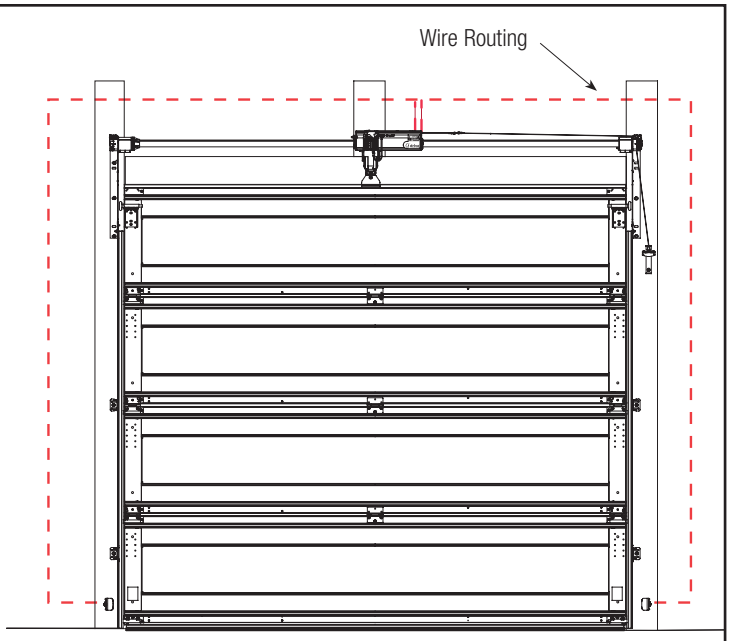
Connect photoelectric sensors to the opener terminal block on right side of the opener. Separate wire ends and strip about 1/2" of insulation off each of the wire ends.

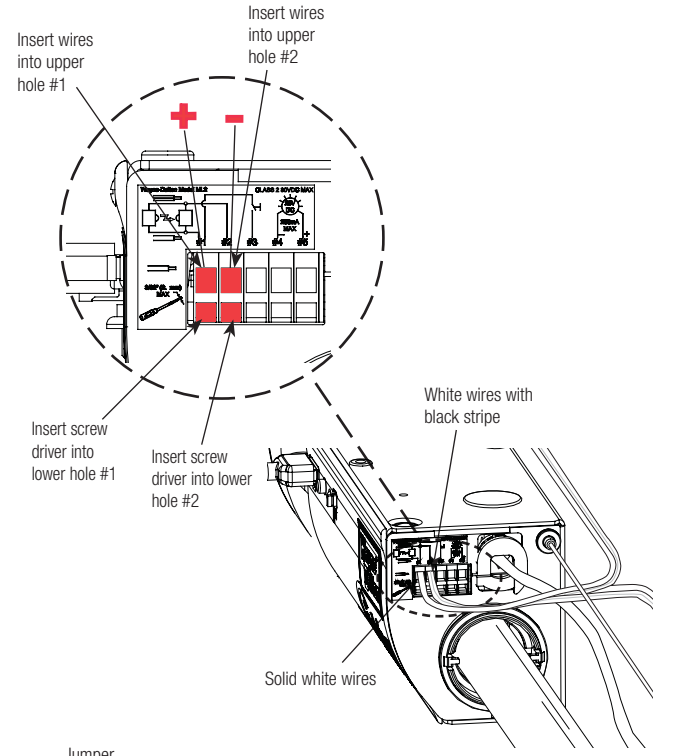
Insert a 3/32" (2.5mm) max. width flatblade screwdriver into the lower hole #1 of the terminal block. Twist screwdriver to open wire clamp in upper hole #1 of terminal block. Insert both sender and receiver solid white wires into upper hole #1 until the wires bottom out and release screwdriver tension. Insert and twist screwdriver in lower hole #2 and insert both sender and receiver wires (white with black stripe) into upper hole #2 until wires bottom out and release screwdriver tension. Be sure to observe polarity.

Once wires are connected, install jumper through the front opener cover on to the pins labeled PE.

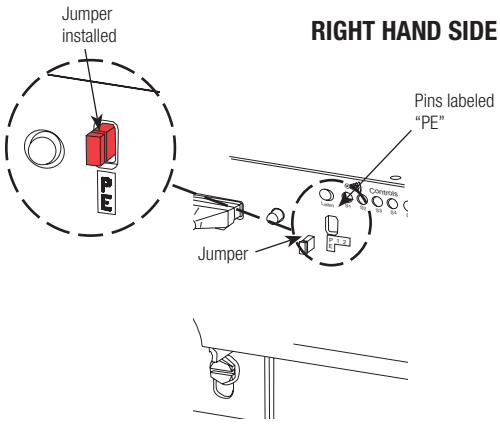
IMPORTANT! KEEP SENDER/RECEIVER WIRES AWAY FROM MOVING COMPONENTS.

Lightly pull on external wires to test for secure connection. Check that the wires are stapled in place and staples have not cut wire insulation.





RIGHT HAND SIDE VIEW OF OPENER



VIEW OF THE OPENER FROM THE FRONT

PRE-OPERATION

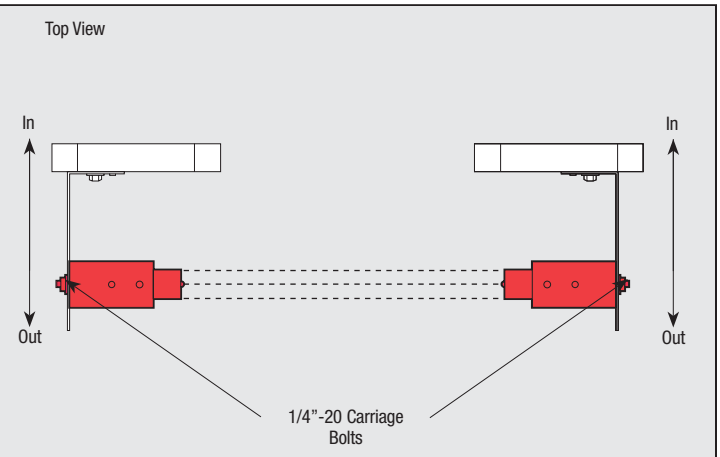
22 Safety Sensor Alignment

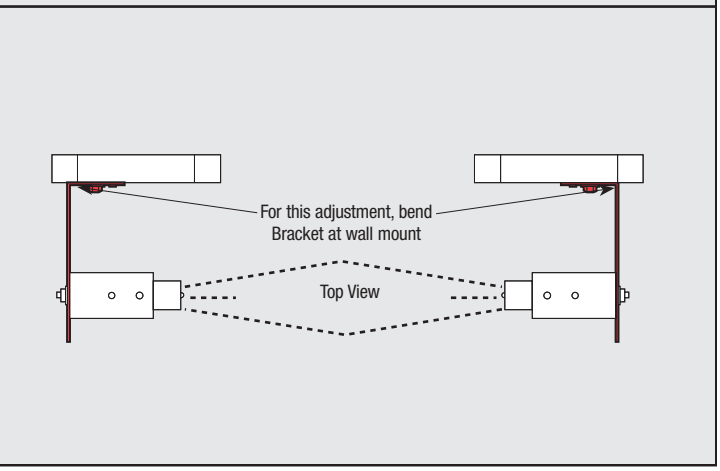
Tools Needed:

Pliers

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 wires making sure not to break or open any of the conductors. Loop and secure any excess wire.





23 Securing the Opener and Checking for Obstructions

Tools Needed:

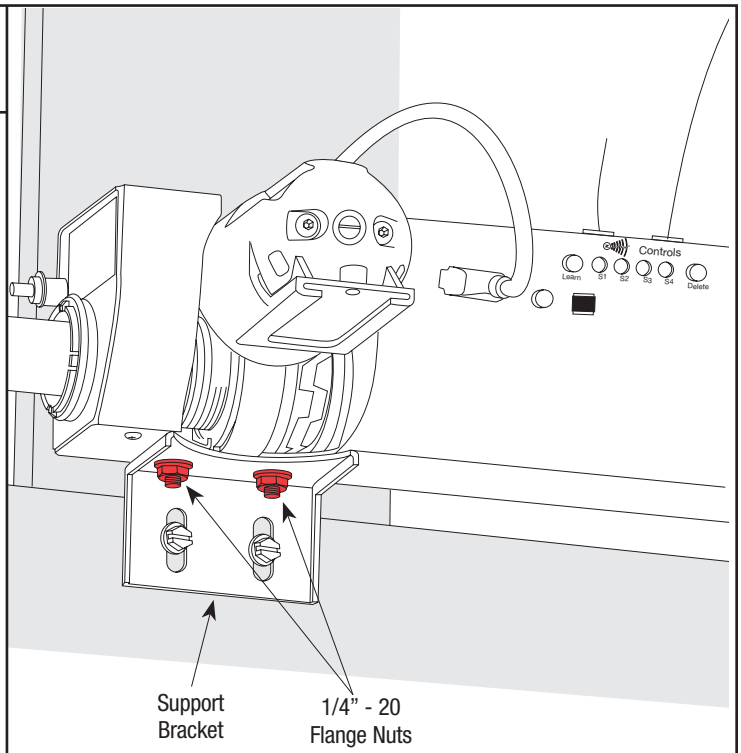
7/16" Wrench

Step Ladder

With the emergency disconnect still in the manual door operated position, manually raise the door to the fully open position. Then, manually lower the door to the fully closed position verifying freedom of movement and good door balance.

Tighten both 1/4"-20 flange nuts, securing the opener to the support bracket.

NOTE: Good door balance and freedom of movement are essential for proper opener performance. If door is heavy to lift, hard to close or if door sticks or binds in the track, make proper adjustments now.



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24 Programming Light Fixture

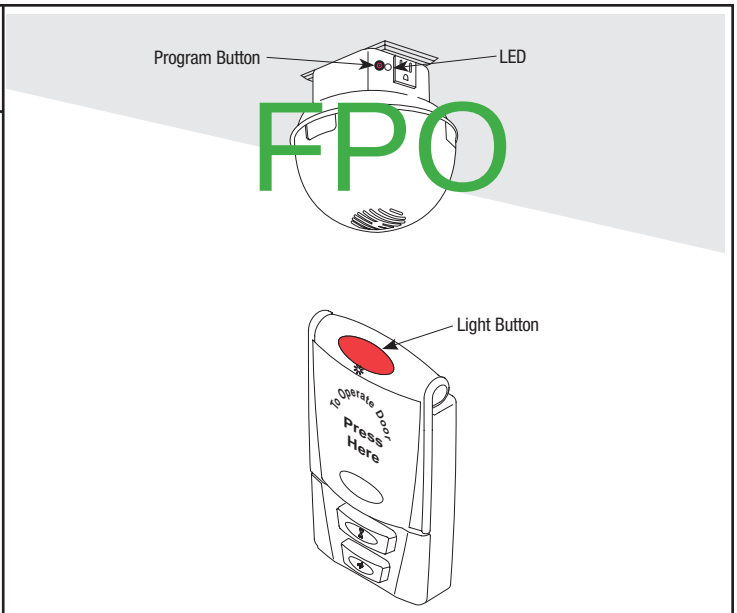
Tools Needed:

Step Ladder

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 opener is learned to the light fixture. The incandescent lamp will also turn on when program button is pushed.

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 opener to the light fixture, the installer must have the wall station already programmed to the opener.



25 Profile Routine (Standard Upper Limit)

Tools Needed:

None

⚠WARNING

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

The profile routine automatically sets the door open and close limits and calibrates obstruction sensing. During the profile routine, the door will move up and down twice.

NOTE: If an object such as a ceiling beam obstructs the door from opening completely, skip this step. Set a Custom Upper Limit, see Step 26.

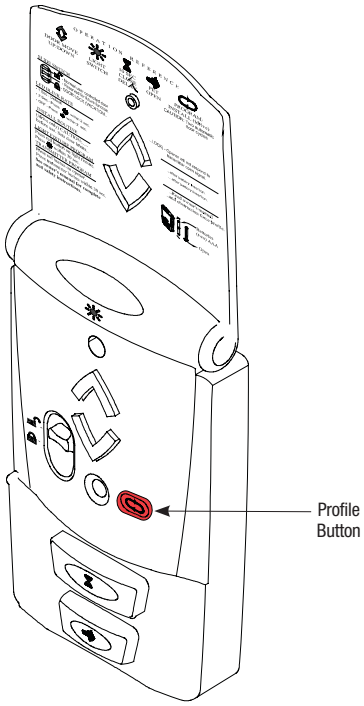
NOTE: The door must be in its fully closed position and the disconnect handle must be in the motor operated position (upper position) to initiate the profile routine.

NOTE: Profile routine will not run if safety sensors are not aligned (only if required installation).

Press and hold the profile button for five (5) seconds. The opener will beep twice, release the profile button, indicating the activation of the profile 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 profile is complete.

NOTE: Upon successful completion proceed to Step 27.



26

Install Routine (Custom Upper Limit)

Tools Needed:

None

⚠WARNING

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

NOTE: If no obstruction interferes with a standard upper limit, 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 profile routine.

NOTE: Install profile will not run if safety sensors are not aligned (Only if required for your door).

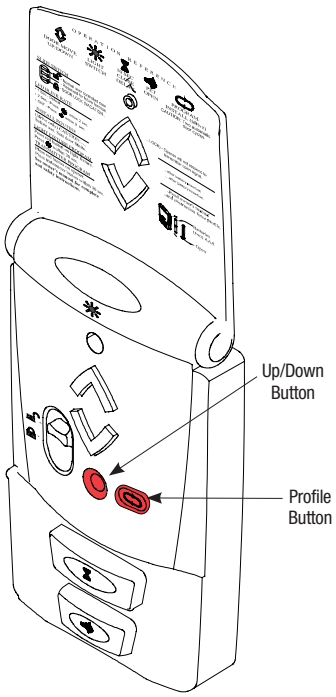
Press and hold the profile button for five (5) seconds. The opener will beep twice, release the profile button, indicating the activation of the profile routine.

When the door moves to the desired upper limit, press and hold the Up/Down button on the wall station until the door stops. Next, the door will close completely. The Up/Down button (when door is closed) can be activated by pressing center of flip cover.

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

Alternately, once an profile routine has been successfully completed, disconnect door and manually move to desired upper limit. Re-connect door and **press and hold the profile button for five (5) seconds**. The door will close, open and close to complete the profile routine with the new custom upper limit.

NOTE: For a more precise location of the custom upper limit, see “Customizing the Settings” on page 39.



27

Adjusting Detent

Tools Needed:

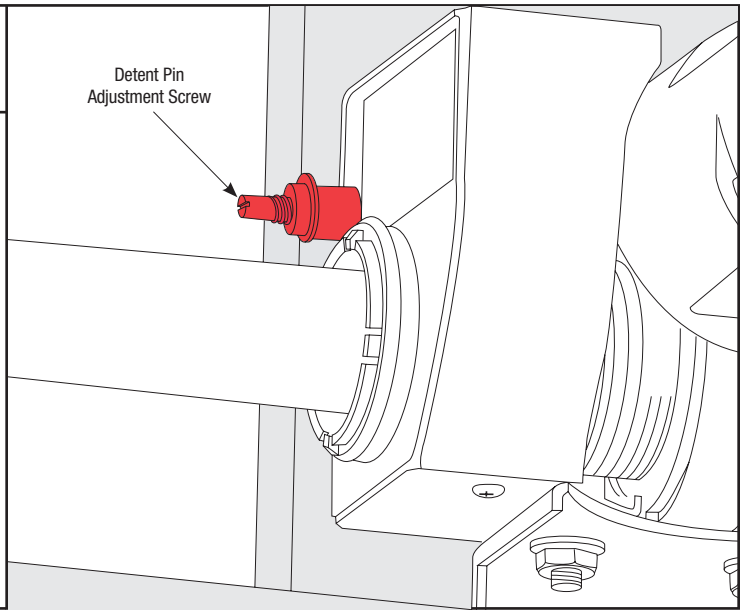
Flat Tip Screwdriver

Step Ladder

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 to insure 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 PIN ADJUSTMENT SCREW MAY NEED TO BE ADJUSTED IN ORDER FOR THE DOOR LOCK FEATURE TO WORK PROPERLY.



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Adjusting Detent (Continued)

Tools Needed:

a. If the motor does not pivot down, or only pivots down partially, the detent pin is set too hard.

Using a flat tip screwdriver, turn the detent pin counterclockwise in 1/8 turn increments.

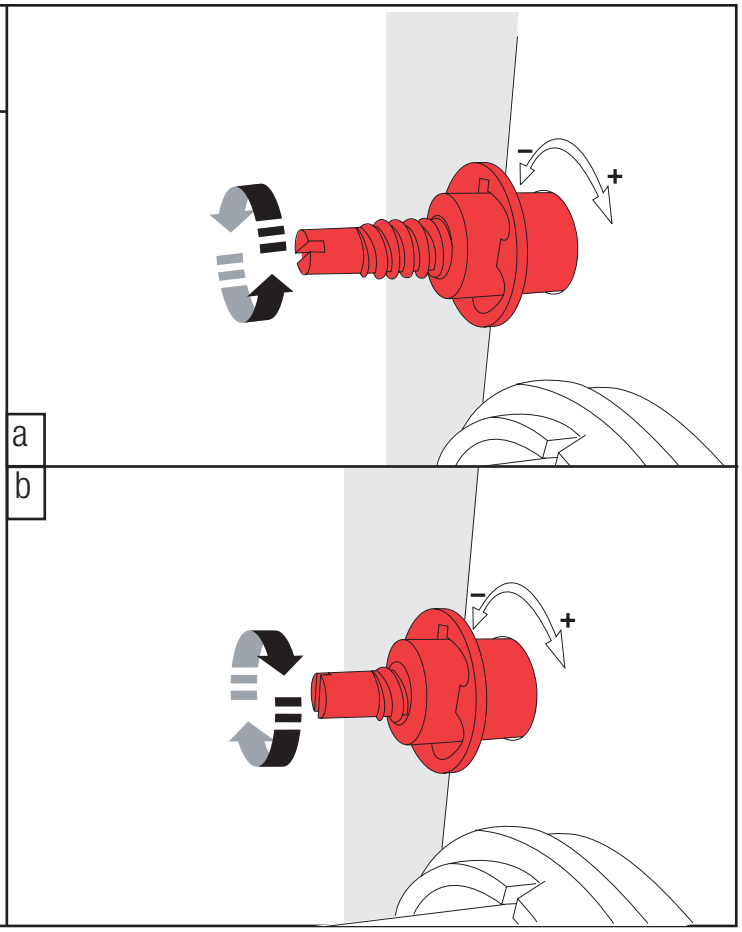
Operate the door to confirm adjustment.

Repeat procedure until motor pivots to full down position when the door is completely closed.

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.

Using a flat tip screwdriver, turn the detent pin clockwise in 1/8 turn increments. Operate the door to confirm adjustment.

Repeat procedure until motor pivots to full down position when the door is completely closed.



28

Lock Arm Installation

Tools Needed:

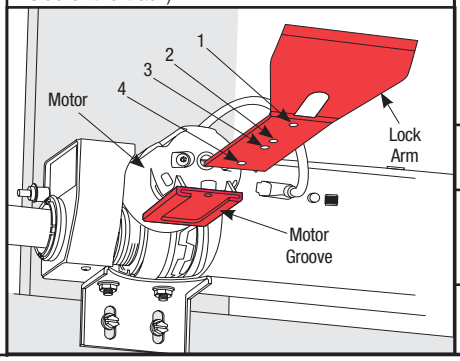
Tape Measure

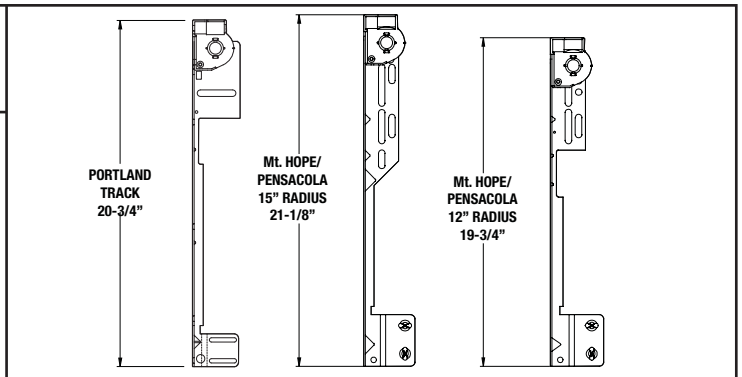
Step Ladder

NOTE: If you have a low headroom double track system, skip this step and continue with Step 29.

Place the emergency disconnect in the manual operated position, Motor will pivot to the up position (see Step 10).

Insert the lock arm into the motor groove and align with the proper hole depending on your track radius. To determine the Wayne-Dalton track radius being used, measure the length of the flagangle and Torquemaster® end bracket and compare to the diagram on the right (all Portland tracks are stamped with radius on the side of the track).





Lock Arm Position	Track Type WD - Mt. Hope & Pensacola PO - Portland	Track Radius	Door Model
1	WD WD PO PO	15"(380mm) 12"(305mm) 12" 10"	9700 8000, 9000 9000 Series 8000, 9000
2	PO	12"	8000 Series
3	WD PO	15"(308mm) 14"	8000, 9000 9000 Series
4	PO	14"	8000 Series

Lock Arm Installation (Continued)

Tools Needed:

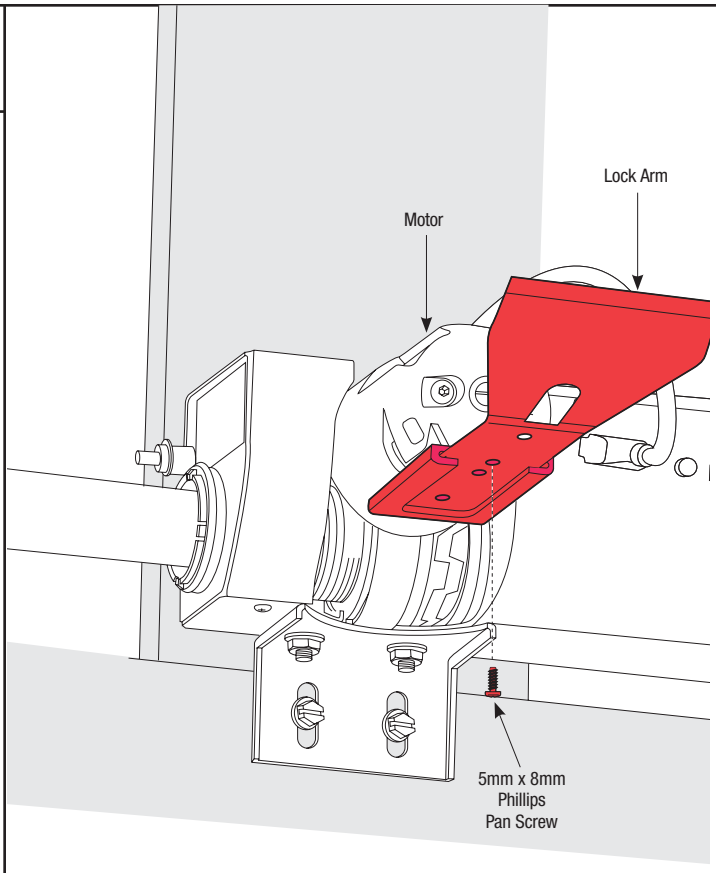
Once track radius has been determined, secure the lock arm to the motor with (1) 5mm x .8mm phillips pan head screw.

NOTE: If unsure of track radius, begin with lock arm in position 1.

After assembly of the lock arm, manually raise and lower the door and verify that the lock arm does not interfere with the door. If there is interference between the door and the lock arm, see Page 43 for lock arm troubleshooting.

NOTE: Do not operate the door or opener if there is interference between the lock arm and the door.

Reconnect the door to the motor operated position. Activate a motor operated up/down cycle to confirm clearance.



29

Contact Obstruction Test

Tools Needed:

2 x 4 Board

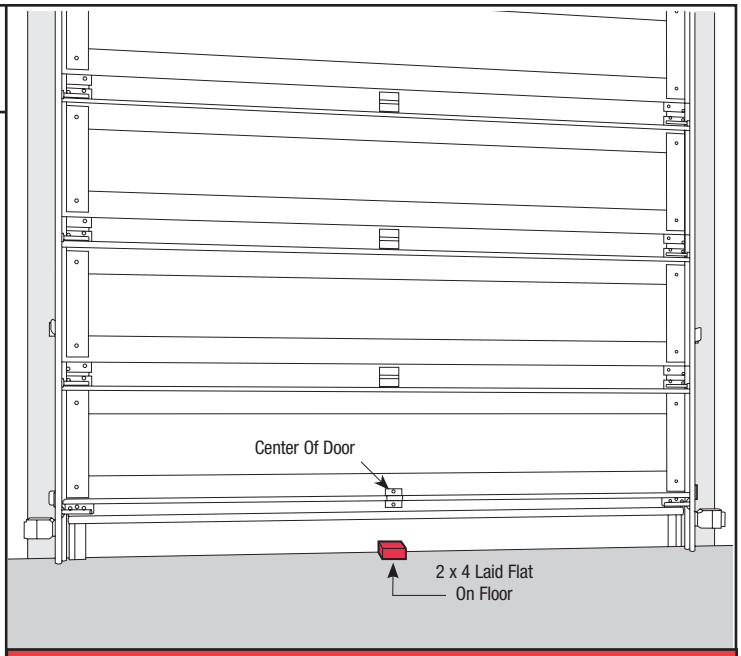
After installing the opener, the door must reverse when it contacts a 1-1/2" high object (or a 2 x 4 board laid flat) on the garage floor.

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 25 or 26, making sure the door is in the fully closed position prior to activation.



⚠WARNING

IF OPENER DOES NOT RESPOND PROPERLY TO THESE TESTS (STEPS 29 AND 30), DO NOT USE DOOR UNTIL A QUALIFIED SERVICE PERSON HAS MADE NECESSARY ADJUSTMENTS/REPAIRS, OR SEVERE OR FATAL INJURY COULD RESULT FROM OPERATING THE DOOR/OPENER.

30

Testing the Safety Sensors
(If Installed)

Tools Needed:

6” Height Object

⚠WARNING

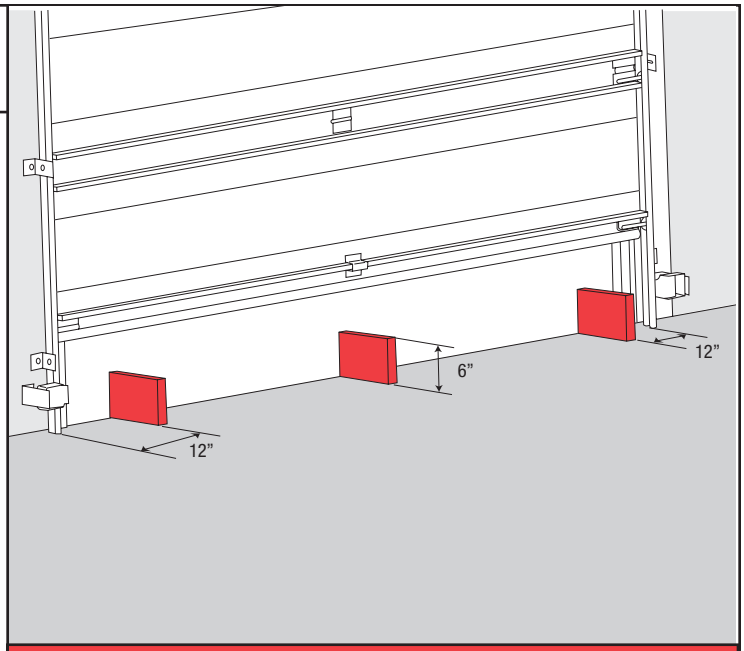
WHEN PERFORMING THIS PART OF THE TEST, DO NOT PLACE YOURSELF UNDER DESCENDING DOOR, OR SEVERE OR FATAL INJURY MAY RESULT.

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 29 AND 30), DO NOT USE DOOR UNTIL A QUALIFIED SERVICE PERSON HAS MADE NECESSARY ADJUSTMENTS/REPAIRS, OR SEVERE OR FATAL INJURY COULD RESULT FROM OPERATING THE DOOR/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. Be very cautious 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 close.

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 close 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 close 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 torque 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 torque 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 torque tube. The view on the right side of the label shows the handle when the opener is disconnected from the torque 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, apply constant pressure to the Up/Down button until the door is fully open or closed. This will allow the opener to move the door in an out of balance condition, until the problem is corrected (see Troubleshooting). The Up/Down button (when unit is closed) can be activated by pressing flip cover.

⚠WARNING

THE 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 identically as 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 when the opener is in the timer mode. 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 identically as 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 the Slide Switch is moved to the unlocked position 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 the Slide Switch is moved to the locked position the opener will beep twice.

Backlit LED Light:

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 stations red LED will light while any wall station button remains pressed.

Pet Position:

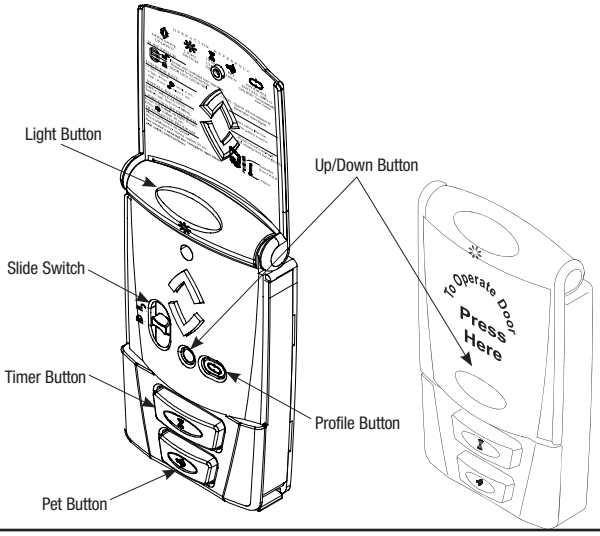
Pressing the Pet button opens a closed door to a preset position between eight and thirty inches above the floor, allowing pets to enter and exit the garage without the door being fully open. The door must be fully closed to activate the pet open feature. Pressing the Pet button with a stationary door 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 identically 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 38.

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 5 seconds to initiate the "Profile Routine". See Customizing the Settings on page 38.

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



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Programming HomeLink® System to the Torquemaster® 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 opener (the wallstation and transmitter(s) supplied with the opener, come pre-programmed from the factory). Any additional wallstation(s) or transmitter(s) will need to be programmed to the opener, see page 41.

IMPORTANT! Use the programming instructions provided with your vehicle first. Follow these instructions if the HomeLink® unit does not learn the transmitter, when using the vehicle's 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.

1. Pull the manual disconnect to put the opener in the disengaged 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 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 and release 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 engaged 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 Torquemaster® 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 opener (the wallstation and transmitter(s) supplied with the opener, come pre-programmed from the factory). Any additional wallstation(s) or transmitter(s) will need to be programmed to the opener, see page 41.

IMPORTANT! Use the programming instructions provided with your vehicle first. Follow these instructions if the HomeLink® unit does not learn the transmitter, when using the vehicle's 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.

1. Pull the manual disconnect to put the opener in the disengaged position.
2. Press and hold the two outside buttons on the HomeLink® unit until the HomeLink® 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 that you need to re-teach any other transmitters to your HomeLink® unit by repeating steps 3 - 6 below.
3. 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.
4. 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

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

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

6. Press the HomeLink® button used in Step 4 above for 1 to 3 seconds. The idrive® will beep indicating a successful learn.
7. Return the manual disconnect to the engaged position.
8. 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.

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:

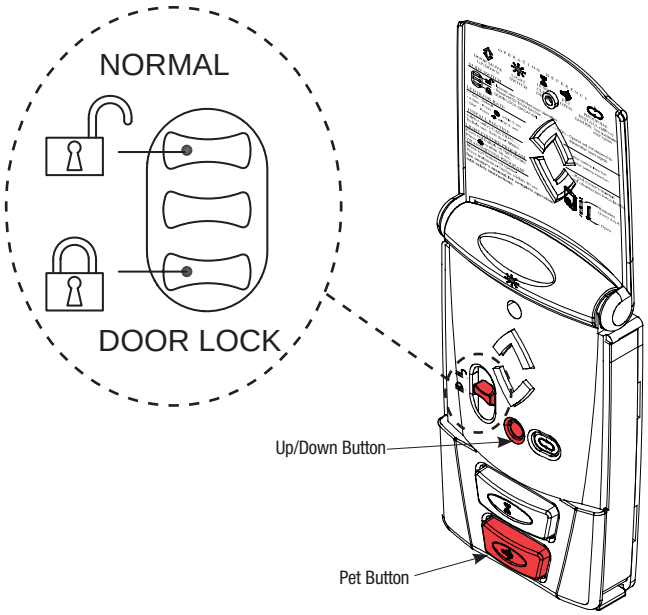
a. After completion of the normal install routine, with the door in the closed position, place the disconnect handle in the manual operated position.

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 and then 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.

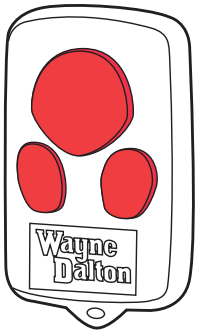
NOTE: The opener will NOT accept programmed pet lock position if door is below 8" or higher than 30".

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.



Custom Upper Limits

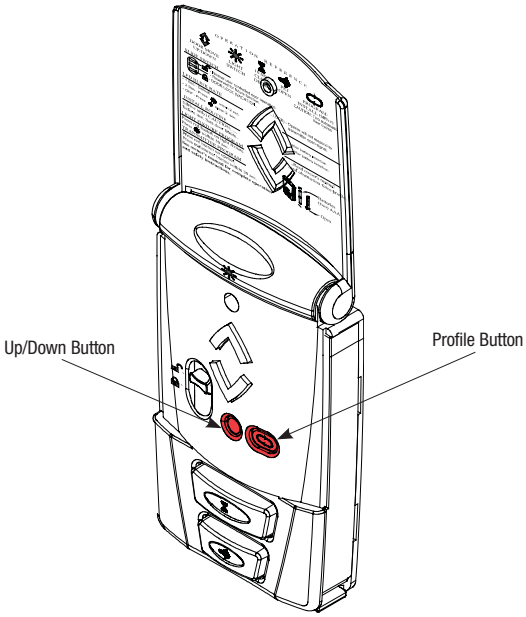
Disconnect door and manually move it to the desired upper limit.
NOTE: The door must be positioned more than halfway open.
Reconnect door.

Press and hold the profile button for 5 seconds. The opener will beep twice, indicating the activation of the profile 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 29 and 30.

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



Customizing the Settings (Continued)

Erasing Remote Controls:

CAUTION: MANUALLY DISCONNECT THE DOOR FROM OPENER USING THE EMERGENCY DISCONNECT HANDLE PRIOR TO ERASING REMOTE CONTROLS.

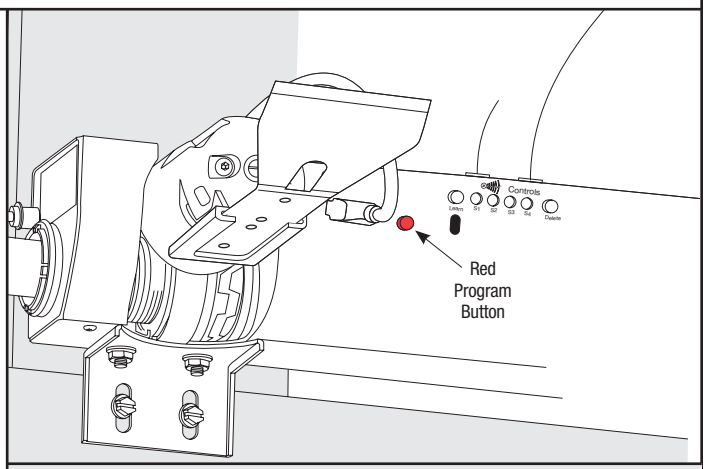
To clear programming of all remote control devices, press and hold the opener's red program button for approximately 10 seconds. When the opener beeps 3 times, all remote controls are erased.

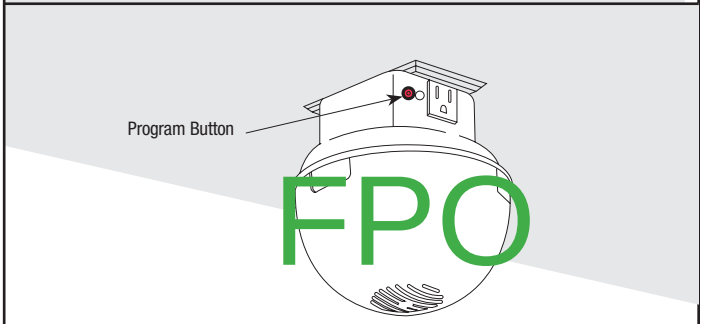
Multi Opener Light Control:

A single light fixture can be controlled by up to 6 openers. Follow the procedure outlined on Step 24 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

Monthly Maintenance:

1. Lubricate hinges and rollers of garage door.
2. Inspect the door for loose fasteners, worn or frayed counterbalance cables and the presences of legible safety labels/ tags. Have repairs made by a qualified service person. Contact customer assistance for safety labels/ tags.
3. 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.
4. Perform the contact/obstruction tests. See Steps 29 and 30 for the contact/obstruction test instructions. If Door/Opener fails Contact/Obstruction test run install routine Steps 25 or 26 making sure door is completely closed prior to activation. If opener still fails, have a qualified service person make adjustments/repairs or this could result in severe or fatal injury.
5. 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. Install two AAA 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 red LED blink rate refer to the wall station operation section on page 35 "Backlit LED Light". Re-install the battery cover by first inserting its top into the wall station then inserting and securing its bottom.

Note: Use only 2 AAA batteries.

Battery replacement for Transmitter:

Insert a coin in the coin slot of the transmitter and twist coin 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.

Power Connection — Permanent Wiring Option

If required by local codes, the opener can be permanently wired. Services of a licensed electrician should be obtained, to permanently wire the Unit. Disconnect electrical power at fuse/breaker box.

⚠WARNING

TO AVOID ELECTRICAL SHOCK, DISCONNECT POWER AT FUSE/ BREAKER BOX BEFORE PROCEEDING.

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

b. Remove potentiometer gear. Unsnap the circuit board from the chassis stand-offs and lower the circuit board as shown.

NOTE: Do not disconnect the two ground wires (A & B) from the circuit board or the chassis.

c. Using pliers, compress 3 snaps of the strain relief fitting inside the chassis and push fitting out of the chassis. Cut opener power cord to a length that will leave 6" inside of the junction box.

d. Route opener power cable through the conduit. Strip 2 to 3 inches of outer jacket off power cable, insuring individual wire insulation is not nicked or cut. Strip approximately 3/4" of insulation off each individual wire. Using wire nuts, splice each conduit wire with the corresponding wire inside the opener as follows: opener black (line), opener white (neutral), and opener yellow and green (ground).

NOTE: Select 1/2" conduit fitting/ J-box that will not interfere with the opener disconnect cable fittings when disconnect is pulled.

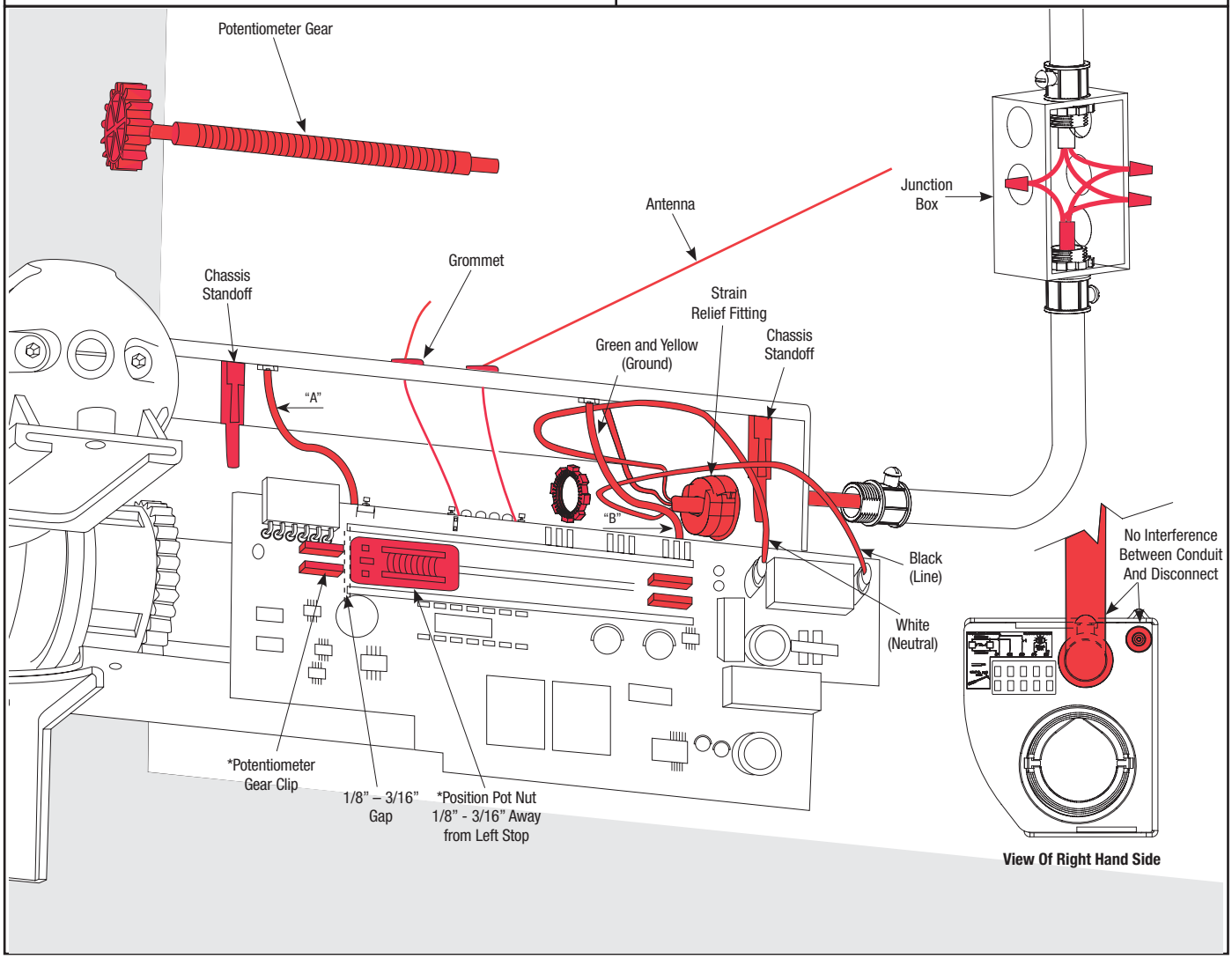
e. Reinstall the circuit board back into the opener chassis and snap the board back into the chassis stand-offs.

NOTE: Make sure antenna wire is routed through the chassis grommet and angled 45 degrees to right when board is installed.

f. Confirm pot nut position* shown below.

g. Reinstall the potentiometer gear, right hand cover, and screws.

h. Reconnect Power



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

Programming Wireless Wall Station(s) or Transmitter(s) to Opener

Tools Needed:

None

⚠WARNING

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

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.

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.

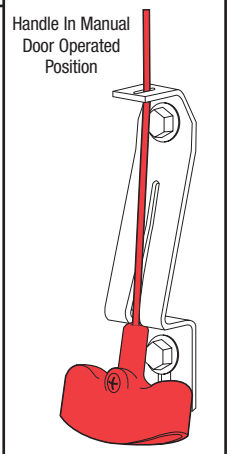
c. Press and hold the desired transmitter button or wall station light button until the opener beeps once. The transmitter of wall station is now programmed.

No beeping response from the opener during the transmitter or 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 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 or wall station.

a



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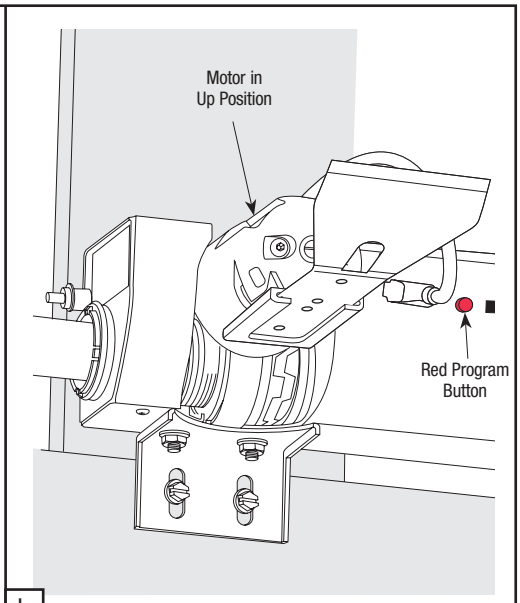

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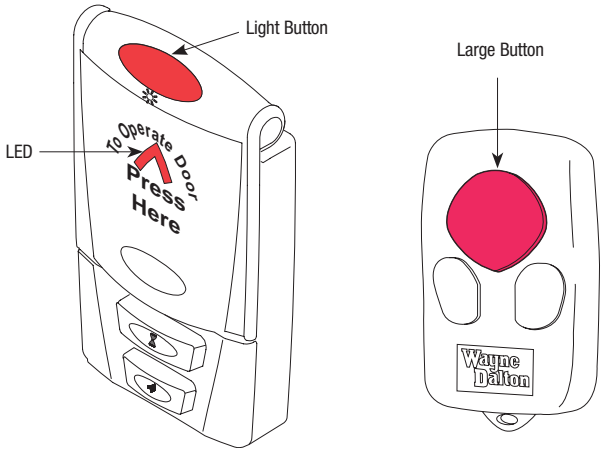
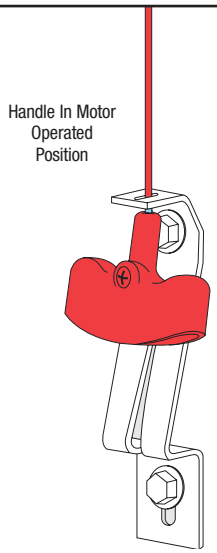


d



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 Activation and Programming section.
Opener works from the Wall Station but not from the Transmitter.	Transmitter is not programmed. Weak or dead Transmitter battery.	See Activation and Programming section. See Maintenance section for battery replacement.
Opener works from the Transmitter but not from the Wall Station.	Wall Station is not programmed. Weak or dead Wall Station battery.	See Activation and Programming section. See Maintenance section for battery replacement.
Door does not move and the Opener beeps two times.	The install routine has not been performed.	Perform the install routine.
Door does not move with a Wall Station or Transmitter command and no beeps come from the Opener.	Blown fuse or tripped circuit breaker. No power to the Opener.	Reset the circuit breaker or contact a qualified service person for fuse information. Check Power Cord connection.
Door does not move with a Wall Station or Transmitter and Opener beeps one time.	Possible loose Motor connection.	Check Motor plug connection.
Door stops or reverses, and the Opener beeps three or four times.	Obstruction encountered. Safety Sensor misalignment (if applicable). Out-of-balance condition detected.	Clear the door path. Re-align Safety Sensors Step 22. Run new Install Routine Steps 25 or 26.
Door does not close properly.	Counterbalance Cables are not on the Cable 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. Safety Sensor misalignment (if applicable). Contact obstruction test failure.	Door will operate after a one-minute waiting period. Re-align Safety Sensors Step 22. Apply constant pressure to Wall Station Up/Down Button until door is closed Repeat the install routine Steps 25 or 26 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.	Adjust the springs to correct the balance or call a qualified service person. Repeat the install routine Steps 25 or 26.
Door is not sealing to the floor.	Bottom door limit is set too high. Outside door seal is set too tightly 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 25 or 26. Adjust weather seal position.
Motor does not pivot up fully when door is opening.	Counterbalance springs have too much tension.	Adjust the springs to correct the balance or call a qualified service person. Install routine may have to be rerun. Steps 25 or 26.
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 too 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
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 24.
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 9.
Motor starts but the door will not move.	Opener is disconnected from the Torque Tube.	Ensure Disconnect Handle is in the Motor Operated Position. Re-install Handle per instructions in Step 9.
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 counter-clockwise in 1/8 turn increments until the Motor fully pivots down after the door closes see Steps 27.
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 27.
Light Kit will work with light control but Wall Station will not move the door when Up/Down Button is pressed and the overhead light blinks three times.	Opener is in the vacation mode.	Move wall switch to the “Lock” position, wait 5 seconds return slide switch to “Normal” (Unlock) position to unlock vacation mode. Opener will emit one beep. Opener will now move the door. If not, try again. If Opener now emits two beeps when commanded then Opener needs to be profiled. See Opener profiling page 29 or 30.
Wall Station not operational.	Wall Station mounted incorrectly. Low battery.	Ensure Wall Station is mounted on a flat surface. Change battery see page 39.

Lock Arm Troubleshooting

Symptom	Probable Cause	Corrective Action
The door interferes with the Lock Arm when manually verifying clearance.	Lock Arm is set too far out. The Torque Tube is not level (Opener needs to be raised). The door top brackets and/or track configuration are not set correctly (Set top brackets higher). Motor not fully rotated up to Detent Pin engaged position.	Ensure the Lock Arm is mounted using the correct hole location stated in Step 28. Remount the Opener per Steps 5 and 6 , ensuring the Opener and Torque Tube are level prior to fastening. For new door and Opener installations, refer back to the instructions included with the door for top bracket and/or track configurations. For retro-fit installations on current doors, refer back to the section of this manual titled: Retro fit installation for idrive, for top bracket and/or track configurations. Remount the Disconnect Handle per Step 9, ensuring proper Cable tension between the Opener and the Handle.

Lifetime Limited Warranty
idrive® for TorqueMaster® and TorqueMaster® Plus

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.

Please Do Not Return This Product To The Store

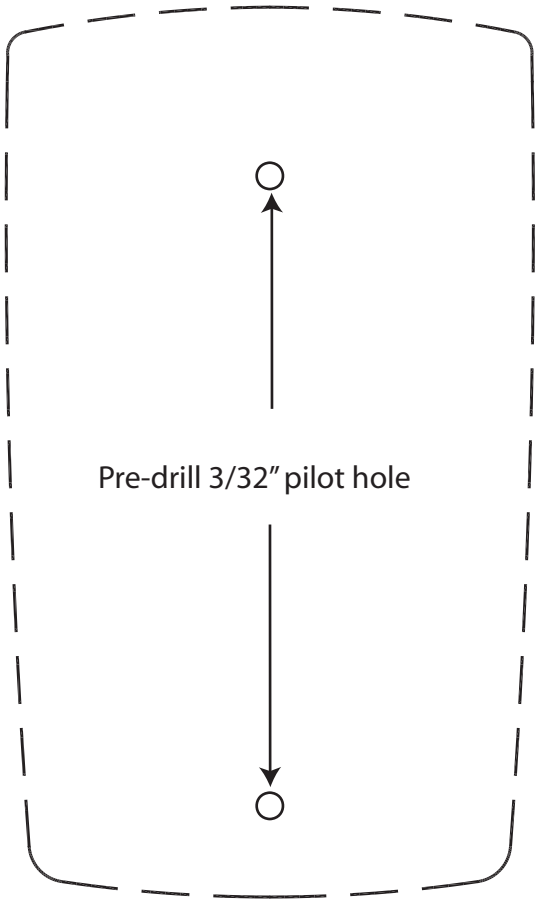
Call Us Directly! Our Trained Technicians Will Answer
Your Questions and /or Ship Any Parts You May Need

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

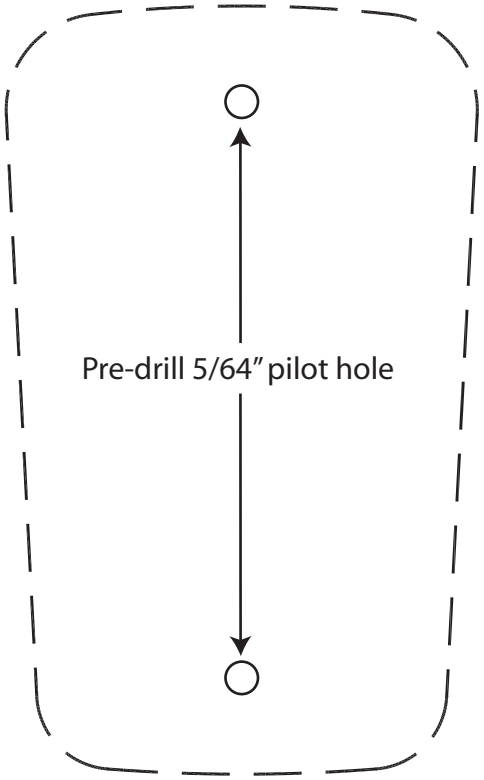
Thank you for your purchase

www.wayne-dalton.com

Cut-Out Template to Aid Installation



Wall Station Template



Keyless Entry Template

Patent Information

Models: 3790/3790-Z/3791/3791-Z

Covered under one or more of the following U.S. patents: D413,579; D466,141; D472,568; D472,910; D473,573; D473,574; D474,215; D505,393; D517,580; 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. other U.S. and foreign patents pending

FCC and IC Statement

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.