



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 1***

# INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL



# *idrive* **FPO** *PRO*

for TORQUEMASTER®/  
TORQUEMASTER® PLUS  
Models: 3790/3790-Z/3791/3791-Z

Installation Instructions  
and Owner's Manual

NOT FOR PUBLIC RELEASE



## USE OF THIS MANUAL

### WHEN INSTALLING A NEW DOOR WITH AN IDRIVE®:

If you just finished installing a new garage door along with an iDrive® opener, then proceed with these instructions beginning with Step 15 on page 22. If you were referred to these instructions as part of a new door installation, then proceed with these instructions beginning with Step 1 on page 7.

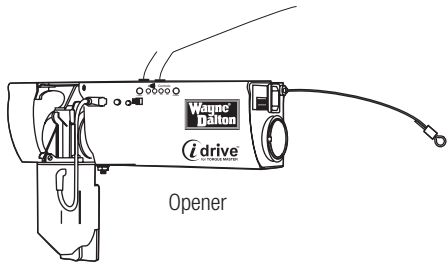
Integrated Z-Wave® technology  
Ready for your home  
control network  
On select models

## IMPORTANT NOTICE!

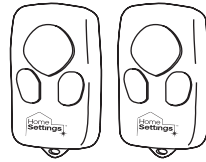
To avoid possible injury, read the enclosed instructions carefully before installing/operating this garage door opener. Pay close attention to all warnings and notes. This manual MUST be attached to the wall in close proximity to the garage door opener.

**Wayne®  
Dalton**  
GARAGE DOORS & OPENERS

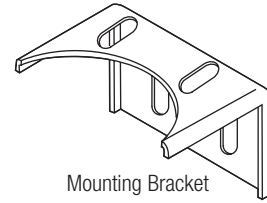
## Package Contents



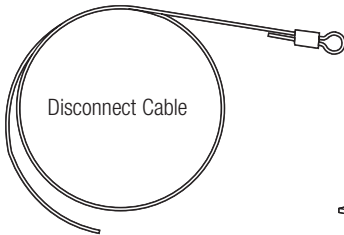
Opener



Key chain/Visor  
Transmitter (2)



Mounting Bracket



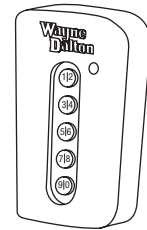
Disconnect Cable



Deluxe Multi-function  
Wireless Wall Station



Entrapment Label



5 Button Wireless  
Keyless Entry



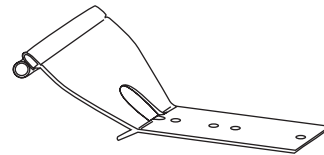
Disconnect Handle



Disconnect  
Handle Bracket



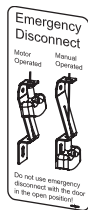
Security Light with  
Diffuser



Lock Arm Assembly



"S" Hook



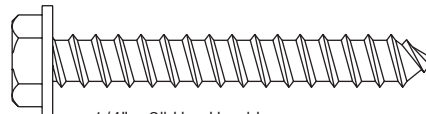
Emergency  
Disconnect Label



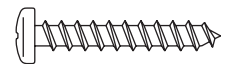
Cable Clips (4)



Jumper  
(Optional for Safety Sensors)



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



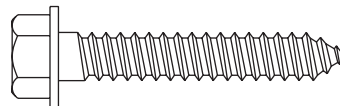
#6 x 7/8" Phillips Pan  
Head Screws (4)



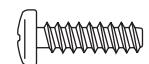
Owner's Manual



Installation DVD



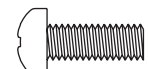
1/4" x 1-1/2" Hex Head  
Lag Screws (4)



#6-20 x 1/2" Phillips  
Pan Head Screw (1)



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



5mm x .8mm x 12mm  
Phillips Pan Head Screw (1)  
(For Lock Arm)

## **PRE-INSTALLATION INSPECTION OF YOUR GARAGE DOOR PRIOR TO TORQUEMASTER® IDRIVE® 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.

### **WHEN INSTALLING A NEW DOOR WITH AN IDRIVE®:**

If you just finished installing a new garage door along with an idrive® opener, then proceed with these instructions beginning with Step 15 on page 22. If you were referred to these instructions as part of a new door installation, then proceed with these instructions beginning with Step 1 on page 7.

### **WHEN INSTALLING AN IDRIVE® ON AN EXISTING DOOR WITH TORQUEMASTER® OR TORQUEMASTER® PLUS:**

Before installing the idrive® 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 down or creeping up. 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 operation of the door does not meet these criteria, you need to adjust the spring balance per your door's Installation Instructions and Owner's Manual or call a professional installer to make adjustments before installing idrive®.

If the door operates properly, check and record your Torquemaster® counterbalance spring settings (for Torquemaster Plus spring settings, see warning tag(s) attached to the end brackets or refer to your door Installation Instructions and Owner's manual). Then proceed with unwinding of the spring(s) for installation of your idrive®, carefully following the instructions in STEP R1 of your idrive® Installation Instructions and Owner's Manual. After the idrive® is installed on the Torquemaster® tube, rewind the Torquemaster® or Torquemaster® Plus to the previously recorded settings.

Instruction manuals are available for download on **www.wayne-dalton.com**. Use the web site to also find the location of your nearest professional dealer.

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

**Idrive® for Torquemaster®**

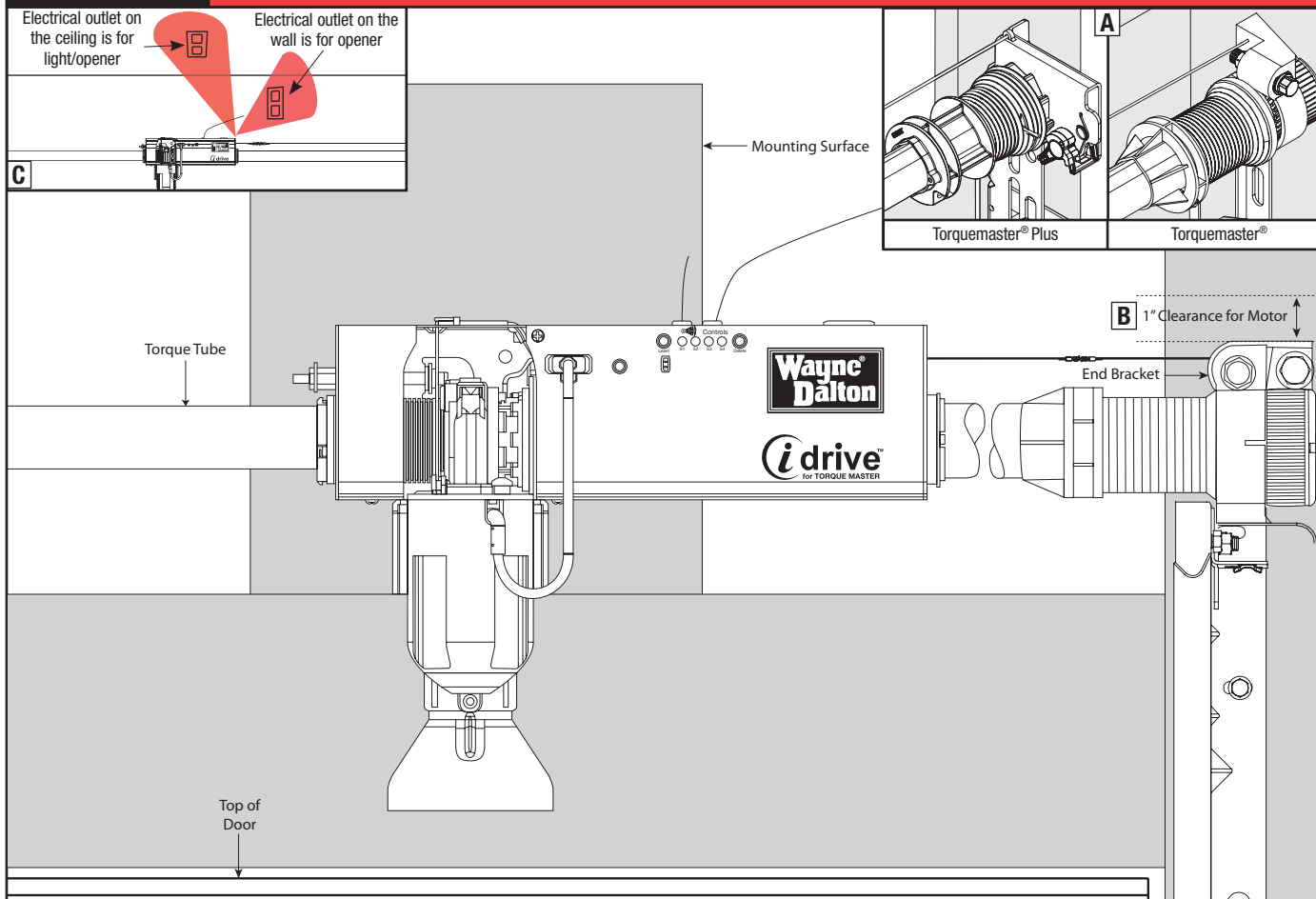
[http://www.wayne-dalton.com/idrive\\_TorqueMaster.asp](http://www.wayne-dalton.com/idrive_TorqueMaster.asp)

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

**CAUTION:** DO NOT INSTALL THIS OPENER ON YOUR DOOR UNLESS THE FOLLOWING REQUIREMENTS ARE MET. USE THE ILLUSTRATION ABOVE AS A VISUAL AID.

- A.** You must have a Wayne-Dalton Torquemaster® or Torquemaster® Plus counterbalance system to install this opener (see A above).
- B.** The motor requires 1" of clearance above the top of the end bracket for Torquemaster and 1-1/4" of clearance above the top of the end bracket for Torquemaster plus.
- C.** Two electrical outlets are recommended for the iDrive® installation. One of these outlets needs to be located less than 6' from the opener. 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 opener, contact a local electrician for further options. As a convenience, an electrical outlet is provided on the light fixture. The 6' opener cord can be used with this outlet.
- D.** Your door must not exceed 8' in height.
- E.** The iDrive® opener will only work on sectional doors. Do not install on one-piece doors.
- F.** Your garage door must be properly balanced (door must not be heavy to lift, nor lift by itself).
- G.** Horizontal tracks should be raised 1" above level at rear of Track.
- H.** We do not recommend installing the iDrive® opener on Model 9700 door widths of 16' - 18'.
- I.** Maximum door weight (without spring tension) must not exceed 225 lb.

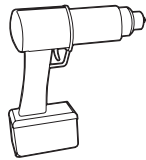
## System Requirements



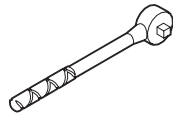
**CAUTION** TO REDUCE THE RISK OF INJURY, USE THIS OPENER ONLY WITH THE FOLLOWING DOOR MODELS:

WAYNE-DALTON DOOR MODEL	WAYNE-DALTON SPRING SYSTEM	TRACK (RADIUS)	PHOTOELECTRIC SAFETY SENSORS	LOW HEAD ROOM KIT
9000 SERIES	Torquemaster® Torquemaster® Plus	10",12",14",15"	Not Required	Not Required
9000 SERIES	Torquemaster® Torquemaster® Plus	6" Low Head Room	Not Required	P/N 302883 Required
8000 SERIES	Torquemaster® Torquemaster® Plus	10",12",14",15"	P/N's 252118 or 301674 Required	Not Required
8000 SERIES	Torquemaster® Torquemaster® Plus	6" Low Head Room	P/N's 252118 or 301674 Required	P/N 302883 Required

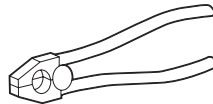
## Tools Needed



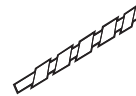
Power Drill



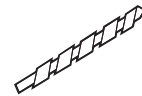
Ratchet Wrench



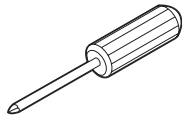
Pliers/Wire  
Cutters



3/32" Drill Bit



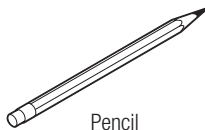
3/16" Drill Bit



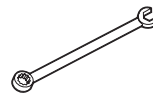
Phillips Head  
Screwdriver



7/16" Socket



Pencil



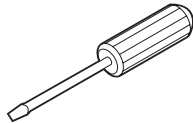
7/16" Wrench



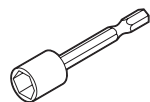
1/8" Drill Bit



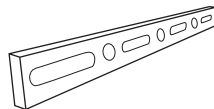
5/64" Drill Bit



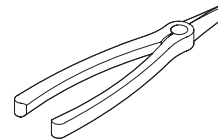
Flat Tip  
Screwdriver



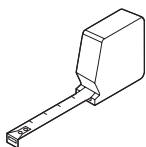
7/16" Socket Driver



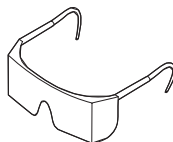
Level



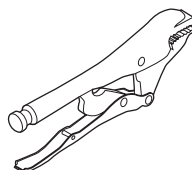
Needle Nose Pliers



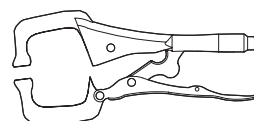
Tape Measure



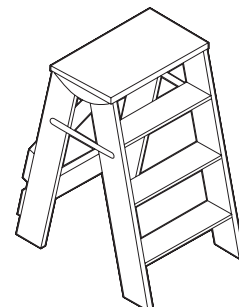
Safety Glasses



Locking Pliers



Vice Clamps



Step Ladder

## Table of Contents

Package Contents .....	I.
Pre-Installation Inspection .....	II, III
Tools Needed .....	IV.
Important Safety Instructions .....	V.
Retro-Fit Installations .....	1-6.
idrive® for Torquemaster® Installation .....	7-22.
Pre-Operation .....	22-33.
Operation .....	34-39.
Maintenance .....	39.
Programming Wireless Wall Stations or Transmitters to Opener .....	41.
Troubleshooting .....	42-43.
Warranty .....	44.
Customer Service Number .....	45.

### 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

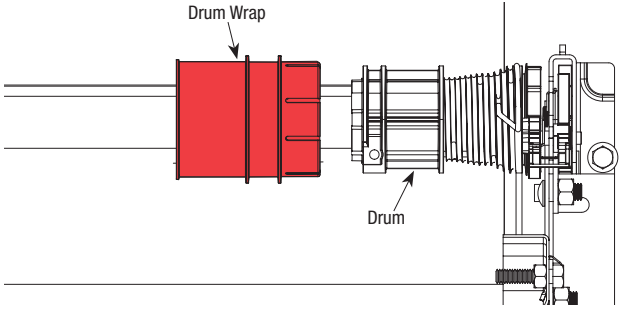
- 1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.**
2. Do not connect the opener to electrical power until instructed to do so.
3. Install the entrapment warning label next to the wall station in a prominent location. Install the emergency disconnect label next to the emergency disconnect.
4. Remove 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.
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.

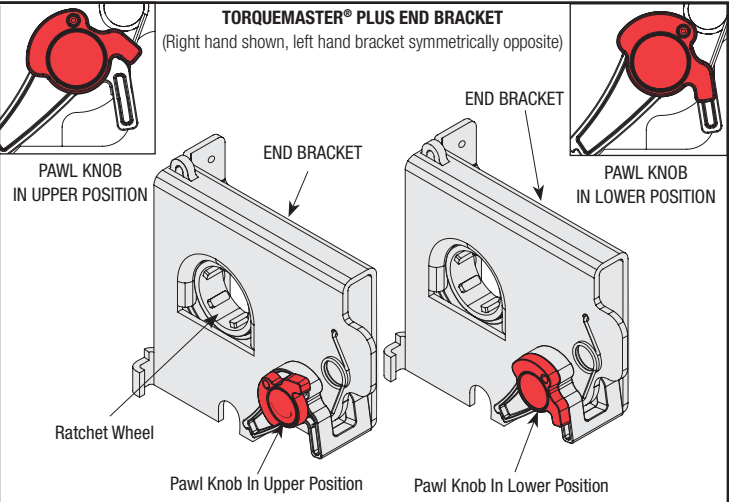
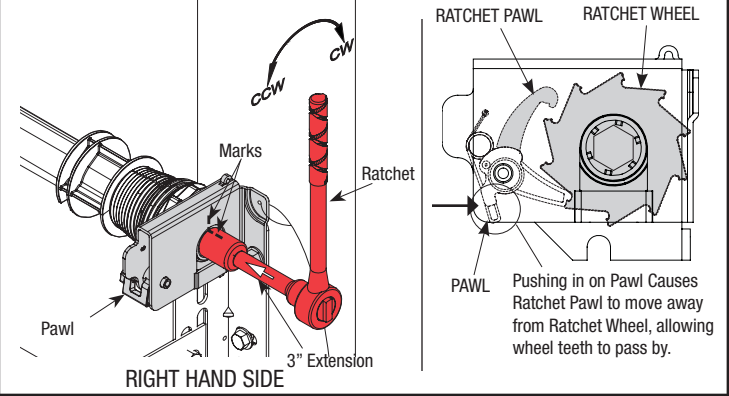
**AFTER INSTALLATION IS COMPLETE, FASTEN THIS MANUAL NEAR GARAGE DOOR. PERFORM MONTHLY OBSTRUCTION TEST AND MAINTENANCE AS RECOMMENDED. SEE PAGES 32, 33 AND 39.**



**INSTALLATION NOTICE:** If installing the idrive® opener on a door currently installed with Torquemaster® or Torquemaster® Plus counterbalance system, start the installation with Step: R1 below (for Torquemaster® Plus) or Step: R1 on page 3 (for Torquemaster®).

**Retro-Fit TorqueMaster® Plus**

<h1>R1</h1>	<b>Retro-Fit Installation Drum Wrap &amp; End Bracket Removal</b>	
Tools Needed: Step Ladder	<p><b>IMPORTANT!</b> RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.</p> <p><b>NOTE:</b> Warning tag removed for illustration clarity.</p> <p>Starting on the right hand side, remove the drum wraps from the cable drums (if installed), twist the drum wrap while pulling it away from the drum. Repeat drum wrap removal for left side.</p>	

<h1>R2</h1>	<b>Spring Tension Removal</b>	
Tools Needed: Ratchet Wrench 5/8" Socket 3" Extension Gloves Step Ladder	<p>Counterbalance spring tension must be relieved before removing any hardware.</p> <p><b>⚠ WARNING</b></p> <p>A POWERFUL SPRING RELEASING ITS ENERGY SUDDENLY CAN CAUSE SEVERE INJURY.</p> <p>Starting with the right hand side, ensure pawl knob is in upper position. Place a ratchet with a 5/8" socket on the winding shaft.</p> <p><b>NOTE:</b> A 3" extension is also recommended for added clearance from the horizontal angle.</p> <p>To remove spring tension, ensure the ratchet and socket is set so that it will add tension (counter clockwise) on the right hand side and (clockwise) on the left hand side. Rotate ratchet to relieve pressure between the pawl and the ratchet wheel. Push in on the pawl to allow the ratchet wheel teeth to pass by.</p> <p><b>NOTE:</b> In the event of a broken spring, it might not be necessary to unwind spring(s).</p> <p><b>IMPORTANT!</b> BE PREPARED TO HOLD THE FULL TENSION OF THE SPRING.</p> <p>Gently let the ratchet rotate upward, while watching the number of teeth on the ratchet wheel pass by the pawl. Remove 3/10 of a turn (watch the 3 teeth of the ratchet wheel pass the pawl). Release the pawl to allow it to engage with the ratchet wheel. Repeat this process until all spring tension has been removed from spring(s). Cables should be loose and the torque tube should be free to rotate in either direction.</p> <p><b>IMPORTANT!</b> SPRING(S) ARE FULLY UNWOUND WHEN COUNTERBALANCE CABLES HAVE NO TENSION.</p> <p><b>IMPORTANT!</b> DO NOT USE AN IMPACT GUN TO UNWIND THE SPRINGS.</p>	 <p><b>RIGHT HAND SIDE</b></p> <p><b>LEFT HAND SIDE</b></p>