Model 8700

Extension

Residential
Standard Lift
Windload

Installation Instructions and Owner’s Manual

Pre-Installation 2
- Important Safety Instructions 2
- Removing an Existing Door and Preparing the Opening 2
- Package Contents 3
- Door Section Identification 4
- Tools Required 4
Breakdown Of Parts 5
Door Installation Instructions 6
Counterbalance Installation Instructions 11
Optional Installation 15
- Inside Lock 15
- Pull Down Rope 15
- Door Arm Hookup 15
Maintenance 16
- Cleaning Your Garage Door 16
- Operation And Maintenance 16
Warranty 17

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE
If you need assistance, please call 1-866-569-3799 (press Option 1) and follow the prompts to contact a customer service representative. They will be happy to handle any questions that you may have.

IMPORTANT NOTICES!
To avoid possible injury, read and fully understand the enclosed instructions carefully before installing and operating the garage door. Pay close attention to all warnings and notes. After installation is complete, fasten this manual near garage door for easy reference.

This Installation document is available at no charge from:
- Your local Wayne Dalton Sales Center, or
- Online at www.Wayne-Dalton.com, or
- By mailing to: Wayne Dalton, a division of Overhead Door Corporation, P.O. Box 67, Mt. Hope, OH, 44660

©Copyright 2018 Wayne Dalton, a division of Overhead Door Corporation
Pre-Installation

Important Safety Instructions

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.

**NOTE:** Required step for safe and proper door operation.

**CAUTION**
Information assuring proper installation of the door.

**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.

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

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION, IF IN QUESTION ABOUT ANY OF THE PROCEDURES, DO NOT PERFORM THE WORK. INSTEAD, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN DO THE INSTALLATION OR REPAIRS.

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Wear protective gloves during installation to avoid possible cuts from sharp metal edges.
3. It is always recommended to wear eye protection when using tools, otherwise eye injury could result.
4. Avoid installing your new door on windy days. Door could fail during the installation causing severe or fatal injury.
5. Doors 12’-0” wide and over should be installed by two persons, to avoid possible injury.
6. Operate door only when it is properly adjusted and free from obstructions.
7. If a door becomes hard to operate, inoperative or is damaged, immediately have necessary adjustments and/or repairs made by a trained door system technician using proper tools and instructions.
8. Do not stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
9. Do not place fingers or hands into open section joints when closing a door. Use lift handles/gripping points when operating door manually.
10. Do not permit children to operate garage door or door controls. Severe or fatal injury could result should the child become entrapped between the door and the floor.
11. Due to constant extreme spring tension, do not attempt any adjustment, repair or alteration to any part of the door, especially to springs, spring brackets, bottom corner brackets, fasteners, counterbalance lift cables or supports. To avoid possible severe or fatal injury, have any such work performed by a trained door system technician using proper tools and instructions.
12. On electrically operated doors, pull down ropes must be removed and locks must be removed or made inoperative in the open (unlocked) position.
13. Top section of door may need to be reinforced when attaching an electric opener. Check door and/or opener manufacturer’s instructions.
14. Visually inspect door and hardware monthly for worn or broken parts. Check to ensure door operates freely.
15. Test electric opener’s safety features monthly, following opener manufacturer’s instructions.
16. Never hang tools, bicycles, hoses, clothing or anything else from horizontal tracks. Track systems are not intended or designed to support extra weight.
17. This door may not meet the building code wind load requirements in your area. For your safety, you will need to check with your local building official for wind load code requirements and building permit information.
18. For windloaded doors, the wind performance is achieved via the entire door system and component substitution is not authorized without express permission by Wayne Dalton.

NOTE: It is recommended that 5/16” lag screws are pilot drilled using a 3/16” drill bit, prior to fastening.

**CAUTION**
If any part of the door is to be installed onto preservative-treated wood, PTFE-coated or stainless steel fasteners must be obtained and used. Replacement fasteners must be of at least equal strength and size as original fasteners. If the original fastener was head, the replacement fastener must be red-head also. Contact Wayne Dalton for fastener strength values if needed.

**WARNING**
Impact guns are not recommended. When installing 5/16” lag screws using an electric drill/driver, the drill/driver clutch must be set to deliver no more than 200 in-lbs of torque. Fastener failure could occur at higher settings.

**WARNING**
Could result in Death or Serious Injury

**CAUTION**
Property damage or injury can result from failure to follow instructions.

**NOTE:** Right and left hand is determined inside the building looking out.

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
Could result in Death or Serious Injury

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
Keep people clear of opening while Door is moving. Do NOT allow children to play with the Door Opener. Do NOT operate a Door that jams or one that has a broken spring.

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
Could result in Death or Serious Injury

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
Avoid installing your new door on windy days. Door could fall during the installation causing severe or fatal injury.

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
High tension spring

**CAUTION**
Property damage or injury can result from failure to follow instructions.

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

**WARNING**
Moving door

**NOTE:** Required step for safe and proper door operation.

**CAUTION**
Information assuring proper installation of the door.

**WARNING**
Removing an Existing Door and Preparing the Opening

**WARNING**
A powerful spring releasing its energy suddenly can cause severe or fatal injury. To avoid injury, have a trained door systems technician, using proper tools and instructions, release the spring tension.

To avoid possible injury and to insure proper installation, it’s highly recommended that you read and fully understand the complete instructions on removing an existing Door & Preparing the Opening. These are available for download at www.Wayne-Dalton.com or at your local Wayne Dalton Sales Center.

**IMPORTANT:** If you just removed your existing DOOR or you are installing a NEW DOOR, COMPLETE ALL STEPS IN PREPARING THE OPENING.

To ensure secure mounting of track brackets, side and center brackets, or steel angles to new or retrofit construction, it is recommended to follow the procedures outlined in DASMA technical data sheets #156, #161 and #164 at www.dasma.com.

The inside perimeter of your garage door opening should be framed with wood jambs and header material. The jambs and header must be securely fastened to sound framing members. It is recommended that 2” x 6” lumber be used. These jambs must plumb and have the header level. The jambs should extend a minimum of 12” (305 mm) above the top of the opening for TorqueMaster® counterbalance systems. For low headroom applications, the jambs should extend to the ceiling height. Minimum side clearance required, from the opening to the wall, is 3-1/2” (89 mm).

**IMPORTANT:** Closely inspect Jambs, Header and Mounting Surface. Any wood found not to be sound, MUST be replaced.

For TorqueMaster® counterbalance systems, a suitable mounting surface (2” x 6”) must be firmly attached to the wall, above the header at the center of the opening.

**NOTE:** Drill a 3/16” pilot hole in the mounting surface to avoid splitting the lumber. Do not attach the mounting surface with nails.

**WEATHERSTRIPS (MAY NOT BE INCLUDED):**
Depending on the size of your door, you may have to cut or trim the weatherstrips (if necessary) to properly fit into the header and jambs.

**NOTE:** If nailing product at 40°F or below, pre-drilling is required.

**NOTE:** Do not permanently attach weatherstrips to the header and jambs at this time.

**FOR QUICK INSTALL TRACK:** For the header, align the weatherstrip with the inside edge of the header and temporarily secure it to the header with equally spaced nails. Starting at either side of the jambs, fit the weatherstrip up tight against the temporarily attached...
weatherstrip in the header and flush with the inside edge of the jamb. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

**FOR FULLY ADJUSTABLE TRACK:** For the header, align the weatherstrip 1/8" to 1/4" inside the header edge, and temporarily secure it to the header with equally spaced nails. Starting at either side of the jamb, fit the weatherstrip up tight against the temporarily attached weatherstrip in the header and 1/8" to 1/4" inside the jamb edge. Temporarily secure the weatherstrip with equally spaced nails. Repeat for other side. This will keep the bottom section from falling out of the opening during installation. Equally space nails approximately 12" to 18" apart.

**HEADROOM REQUIREMENT:** Headroom is defined as the space needed above the top of the door for tracks, springs, etc. to allow the door to open properly. If the door is to be motor operated, 2-1/2" (64 mm) of additional headroom is required.

**NOTE:** 6" low headroom conversion kit is available for 12" radius only. Contact your local Wayne Dalton dealer.

**BACKROOM REQUIREMENT:** Backroom is defined as the distance needed from the opening back into the garage to allow the door to open fully.

**BACKROOM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Door Height</th>
<th>Track</th>
<th>Manual Lift</th>
<th>Motor Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>6’0” to 7’0”</td>
<td>12”, 15” Radius</td>
<td>102” (2591 mm)</td>
<td>125” (3175 mm)</td>
</tr>
<tr>
<td>7’1” to 8’0”</td>
<td>12”, 15” Radius</td>
<td>114” (2896 mm)</td>
<td>137” (3480 mm)</td>
</tr>
</tbody>
</table>

**HEADROOM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Space Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” Radius</td>
<td>13-1/2&quot; (343 mm)</td>
</tr>
<tr>
<td>15” Radius</td>
<td>14-1/2&quot; (368 mm)</td>
</tr>
</tbody>
</table>

**NOTE:** Depending on the door model, some parts listed will not be supplied if not required. Rear Back Hangs may not be included with your door.

**Package Contents**

- Door sections (as required)
- Extension Springs
- (Narrow) Center hinges (as required)
- Top fixture assemblies (as required)
- Clevis pin (as required)
- Sheave forks (as required)
- Extension Springs
- Spring restraint cables
- Counterbalance lift cables
- (2) Rear cable lift sheaves
- (2) Front cable lift sheaves
- 3 Hole clips (as required)
- S-hooks (as required)
- (2) Spacer (as required)
- (2) Drawbar operator bracket (if included)
- Pull down rope (if included)
- Vertical tracks RH/LH (as required)
- Horizontal tracks RH/LH (as required)
- Fully Adjustable flag angles RH/LH (as required)
- Riveted vertical track assemblies RH/LH (as required)
- Angle mount vertical track assemblies RH/LH (as required)
- Fully Adjustable jamb brackets (as required)
- Weather seals & nails (if included)
- Windload jamb brackets (as required)
- Bottom weather seal (as required)
- Track rollers (as required)
- Graduated hinges (as required)
- Cotter pin (as required)
- Strut (U-shaped) (if included)
- Drawbar operator bracket (if included)
- Pull down rope (if included)
- Extension Springs
- Spring restraint cables
- Counterbalance lift cables
- (2) Rear cable lift sheaves
- (2) Front cable lift sheaves
- 3 Hole clips (as required)
- S-hooks (as required)
- (2) Spacer (as required)
- (2) Drawbar operator bracket (if included)
- Pull down rope (if included)
- Vertical tracks RH/LH (as required)
- Horizontal tracks RH/LH (as required)
- Fully Adjustable flag angles RH/LH (as required)
- Riveted vertical track assemblies RH/LH (as required)
- Angle mount vertical track assemblies RH/LH (as required)
- Fully Adjustable jamb brackets (as required)
- Weather seals & nails (if included)
- Windload jamb brackets (as required)
- Bottom weather seal (as required)
- Track rollers (as required)
- Graduated hinges (as required)
- Cotter pin (as required)
- Strut (U-shaped) (if included)
- Drawbar operator bracket (if included)
- Pull down rope (if included)
When installing your door you must use sections of the appropriate height in the right stacking order. What sections heights you need to use in what order depends on the height of your door.

**NOTE:** Unless your door is five sections in height, you will not receive an Intermediate II section.

### Door Section Identification

<table>
<thead>
<tr>
<th>Door Height</th>
<th>Type Of Sections</th>
<th>Bottom</th>
<th>Lock</th>
<th>Intermediate(s) Sections</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot;</td>
<td></td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>Int I: 18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>6'3&quot;</td>
<td></td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>Int II: 18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>6'6&quot;</td>
<td></td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>Int III: 18&quot;</td>
<td>21&quot;</td>
</tr>
<tr>
<td>6'9&quot;</td>
<td></td>
<td>21&quot;</td>
<td>21&quot;</td>
<td>Int IV: 21&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7'0&quot;</td>
<td></td>
<td>21&quot;</td>
<td>21&quot;</td>
<td>Int V: 21&quot;</td>
<td>21&quot;</td>
</tr>
<tr>
<td>7'6&quot;</td>
<td></td>
<td>18&quot;</td>
<td>18&quot;</td>
<td>Int I: 18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7'9&quot;</td>
<td></td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>Int II: 18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>8'0&quot;</td>
<td></td>
<td>21&quot;</td>
<td>18&quot;</td>
<td>Int III: 18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Int IV: 18&quot;</td>
<td>18&quot;</td>
</tr>
</tbody>
</table>

### Tools Required

- Power drill
- Socket driver: 7/16"
- Drill bits: 1/8", 3/16", 9/32", 7/16", 1/2"
- Level
- Ratchet wrench
- Tape measure
- Pliers / Wire cutters
- Flat tip screwdriver
- Phillips head screwdriver
- Wrenches: 3/8", 7/16", 1/2", 9/16", 5/8"
- 3" Ratchet extension
- Sockets: 7/16", 1/2", 9/16", 5/8"
- Vise clamps
- Hammer
- Step ladder
- Leather gloves
- Pencil
- Saw horses
- Safety glasses
- Approved winding bars
- Locking pliers
NOTE: The illustrations shown on this page are general representations of the door parts. Each specific door model may have unique variations.
Before installing your door, be certain that you have read and followed all of the instructions covered in the pre-installation section of this manual. Failure to do so may result in an improperly installed door.


IMPORTANT: IF THE DOOR WILL BE EXPOSED TO A SIGNIFICANT AMOUNT OF ROAD SALT, PAINT THE BARE GALVANIZED BOTTOM WEATHER STEEL RETAINER TO INHIBIT RUSTING.

## Attaching Flag Angles and Jamb Brackets To Vertical Tracks

**NOTE:** If you have Riveted Track or Angle Mount Track, skip this step.

Hand tighten the left hand flag angle to the left hand vertical track using (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts.

**NOTE:** The bottom jamb bracket is always the shortest bracket, while the center jamb bracket is the next tallest. If three jamb brackets per side are included with your door, you will have received a top jamb bracket, which is the tallest.

To attach the bottom jamb bracket, locate lower hole of the hole/ slot pattern of the 1st hole set on the vertical track. Align the slot in the jamb bracket with the lower hole of the hole/ slot pattern. Hand tighten jamb bracket using (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut.

Place the center jamb bracket over the lower hole of the hole/ slot pattern that is centered between the bottom jamb bracket and flag angle of the 2nd hole set. Hand tighten jamb bracket using (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut.

If a top jamb bracket was included, hand tighten it to vertical track using the lower hole of the hole/ slot pattern in the 3rd hole set and (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut.

**NOTE:** Loosely fasten components together. Repeat the same process for the right hand side.

## Attaching Horizontal Track Angles

**NOTE:** For larger doors, a full length horizontal track angle may not already be spot welded to the horizontal track. If the horizontal track angle is not welded, the horizontal track angle will be installed, as shown.

Position the left hand horizontal track angle, as shown. Place the Quick Install tabs of the horizontal track angle in the key slot of the left hand horizontal track. Using a hammer, tap the horizontal track angle towards the curved end of the track until the alignment hole in the track and angle are aligned. Repeat for other side. Set tracks aside.

## Attaching (WL) Jamb Brackets To Vertical Tracks

Measure the length of the vertical tracks. Using the Jamb Bracket Schedule (shown on the Windload Specification Sheet), determine the placement of the windload jamb brackets for your door height. Loosely fasten the jamb bracket to the vertical track with (1) 1/4" - 20 x 9/16" track bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**NOTE:** Loosely fasten components together. Repeat the same process for the right hand side.

## Attaching Bottom Weather Seal

**NOTE:** Refer to door section identification, located in the pre-installation section of this manual.

Determine what size section you need to use for the bottom section. Align the ends of the bottom weather seal with the bottom of the section and attach with 1/4" - 20 x 7/8" self drilling screws, one on each end at least 6" from the end of the section and one every 18" in between.

## Attaching Counterbalance Lift Cables and Track Rollers

**WARNING**

ENSURE TIGHT FIT OF CABLE LOOP OVER MILFORD PIN TO PREVENT COUNTERBALANCE LIFT CABLE FROM COMING OFF THE PIN, WHICH COULD ALLOW THE DOOR TO FALL AND RESULT IN SEVERE OR FATAL INJURY.

**NOTE:** Refer to Package Contents / Breakdown Of Parts, to determine which bottom corner brackets you have.

Uncoil the counterbalance lift cables. Depending on which bottom corner brackets you have (reference illustrations below), slip the loop at the ends of the counterbalance lift cable over the milford pin of the bottom corner bracket or secure the cable loop to the clevis pin and bottom corner bracket using a 5/16" flat washer and a cotter pin. Repeat for other bottom corner bracket.

**NOTE:** Refer to Strutting Schedule (shown on the Windload Specification Sheet), to determine if a strut needs to be installed on top of the bottom corner brackets at the bottom portion of the door.
TO ATTACH BOTTOM CORNER BRACKETS WITHOUT A STRUT: Starting on the left hand side, attach left hand bottom corner bracket to the left corner of the bottom section, making sure it is seated against the edges of the end stile. Attach the bottom corner bracket to the end stile using (3) 1/4" - 14 x 7/8" RED HEAD self drilling screws and 1/4" - 14 x 7/8" self drilling screws. Repeat for other side.

TO ATTACH BOTTOM CORNER BRACKETS WITH A STRUT: Starting on the left hand side, position the left hand bottom corner bracket to the left corner of the bottom section, making sure it is seated against the edges of the end stile. Repeat for other side. Next, position the strut over the bottom corner brackets and center the strut side to side on the bottom section. Secure both the strut and the bottom corner bracket into the endstile using (3) 1/4" - 14 x 7/8" RED HEAD self drilling screws and 1/4" - 14 x 7/8" self drilling screws. Repeat for other side. Next, position the left hand bottom corner bracket to the left corner of the bottom section, making sure it is seated against the edges of the end stile. Repeat for other side. Finally, secure the strut to the bottom section using (2) 1/4" - 14 x 7/8" self drilling screws at each center stile(s) location.

**Attaching Hinges**

**NOTE:** Refer to door section identification, located in the pre-installation section of this manual or refer to Breakdown Of Parts.

**NOTE:** The graduated end and center hinges can be identified by the number stamped onto their lower hinge leaf.

**NOTE:** The #1, #2, #3, #4 graduated end hinges (Wide body) serve as end hinges on all sections, except for the top section.

**NOTE:** The #1 Center hinge(s) (Narrow body) serves as center hinges on all sections, except for the top section.

Locate the bottom section, (2) #1 graduated end hinges (wide body) for the end stiles and depending on the width of your door, enough #1 center hinge(s) (narrow body) for each of the pre-marked center hinge locations. Starting on the left hand side of the bottom section, align the lower hinge leaf of the #1 graduated end hinge over the holes, located at the top of the end caps. Also, align the lower hinge leafs of the #1 center hinges (narrow body) with the pre-marked locations at the center locations at the top of the section. Attach lower hinge leafs to the section using 1/4" - 14 x 7/8" self drilling screws, as shown.

**IMPORTANT:** ONE THE 1/4" - 14 X 7/8" SELF DRILLING SCREWS ARE SNUG AGAINST THE LOWER HINGE LEAFS, TIGHTEN AN ADDITIONAL 1/4 TO 1/2 TURN TO RECEIVE MAXIMUM DESIGN HOLDING POWER.

**IMPORTANT:** PUSH & HOLD THE HINGE LEAF SECURELY AGAINST THE SECTION WHILE SECURING WITH 1/4" - 14 X 7/8" SELF DRILLING SCREWS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAF AND THE SECTION.

Place a short stem track roller into each graduated end hinge. Repeat graduated hinge attachment using the appropriate graduated end hinges for all remaining sections except the top section.

**IMPORTANT:** WHEN PLACING SHORT STEM TRACK ROLLERS INTO THE #2 GRADUATED END HINGES AND HIGHER, THE SHORT STEM TRACK ROLLER GOES INTO HINGE TUBE FURTHEST AWAY FROM SECTION.

Use (2) #2 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the lock section (second section).

Use (2) #3 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the intermediate I section (fourth section).

Use (2) #4 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the intermediate II section (fifth section).

Use (2) #5 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the intermediate III section (sixth section).

Use (2) #6 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the intermediate IV section (seventh section).

Use (2) #7 graduated end hinges (wide body) and the required number of #1 center hinge(s) (narrow body) for each of the center hinge pre-marked location(s) along the top edge of the intermediate V section (eighth section).
Attaching Struts

NOTE: Refer to door section identification, located in the pre-installation section of this manual to determine what size sections you need to use as your lock (second) section, intermediate (third) section, intermediate II (fourth section on a five section door) and top section. Measure your sections to make sure they are the correct height as indicated on the chart.

NOTE: Depending on the size of your door, one or more sections may require a strut.

Using sawhorses, lay the appropriate sections together on a flat smooth surface. Ensure the hinges are on top of their corresponding sections. Locate and center the strut onto the section surface and over the hinges (already installed), as shown. Center the strut side to side. Secure the strut to the section surface using (2) 1/4" - 14 x 7/8" self drilling screws at each end and center stile locations. Next, finish securing the strut to the section using (2) 1/4" - 14 x 7/8" self drilling screws in between each end and center stile locations and also at each end and center stile locations. Repeat the same process for other sections.

Attaching Lift Handles

Using sawhorses, lay the bottom and lock sections together on a flat smooth surface. Ensure the hinges are on top of their corresponding sections. Locate the vertical center of the lock (second) section of the door and position the lift handle’s bottom hole 4" from the bottom of the lock section along the vertical center on the outside of the door. Use the holes in the lift handle as a template to mark the hole locations.

IMPORTANT: THE LIFT HANDLE AND THE STEP PLATE NEED TO BE VERTICALLY ALIGNED.

Drill 9/32" diameter holes through the section at each marked location. Enlarge the holes from outside the door to 1/2" diameter through the section. Assemble the outside and inside lift handles to the section using (2) 1/4" - 20 x 2-1/2" carriage bolts and (2) 1/4" - 20 hex nuts and spacers.

WARNING

TO AVOID POSSIBLE INJURY, LIFT HANDLES THAT ARE INSTALLED WITHIN 4 INCHES (102MM) OF A SECTION INTERFACE SHALL PROMOTE VERTICAL ORIENTATION OF THE HAND.

Attaching Top Fixtures To Top Section

Starting with the left hand side of the top section, align the top of the top fixture base 3" down from the top of the top section or directly below a strut if applicable. Ensure the top fixture assembly is level and aligned with the edge of the top section. Secure the top fixture base to the end stile using (4) 1/4" - 14 x 7/8" self drilling screws. Loosen the 5/16" - 18 hex nut, located on the top fixture slide. Insert short stem track roller into top fixture slide. Repeat for other side.

IMPORTANT: IF NO STRUT WAS INSTALLED ON THE TOP SECTION, PLACE (1) 1/4" - 14 x 7/8" SELF DRILLING SCREW INTO THE TOP PRE-PUNCHED HOLE IN EACH ENDSTILE OF THE TOP SECTION.

Attaching Step Plate

On the inside of the bottom section, locate the vertical center of the door. Center the inside step plate vertically no higher than 8" from the bottom of the door to the top of the step plate.

IMPORTANT: DO NOT MOUNT THE STEP PLATE HIGHER THAN 8" FROM THE BOTTOM OF THE SECTION.

Using the inside step plate’s second top most hole and bottom hole as a template, drill 7/16" diameter holes through the entire section.

NOTE: Be extremely careful to keep drill straight when drilling through the section. Now insert the outside step plate into the holes through the front of the door, mounting the two step plates back to back. Secure step plates together with two No. 8 screws through the inside step plate and into the outside step plate.
Positioning Bottom Section

Center the bottom section in the door opening. Level the section using wooden shims (if necessary) under the bottom section. When the bottom section is leveled, temporarily hold it in place by driving a nail into the jamb and bending it over the edge of the bottom section on both sides.

Attaching Vertical Tracks To Jambs

NOTE: Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles, Riveted Vertical Track Assemblies or you may have Angle Mount Vertical Track Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Flag Angles / Vertical Track Assemblies you have.

IMPORTANT: IF YOUR DOOR IS TO BE INSTALLED PRIOR TO A FINISHING CONSTRUCTION OF THE BUILDING’S FLOOR, THE VERTICAL TRACKS AND THE DOOR BOTTOM SECTION ASSEMBLY SHOULD BE INSTALLED SUCH THAT WHEN THE FLOOR IS CONSTRUCTED, NO DOOR OR TRACK PARTS ARE TRAPPED IN THE FLOOR CONSTRUCTION.

IMPORTANT: THE TOPS OF THE VERTICAL TRACKS MUST BE LEVEL FROM SIDE TO SIDE. IF THE BOTTOM SECTION WAS SHIMMED TO LEVEL IT, THE VERTICAL TRACK ON THE SHIMMED SIDE MUST BE RAISED THE HEIGHT OF THE SHIM.

NOTE: Make sure the counterbalance lift cable is located between the track rollers and the door jamb.

Starting on the left hand side of the bottom section, remove the nail. Position the left hand vertical track assembly over the track rollers of the bottom section and install, as shown. Drill 3/16" pilot holes into the door jamb for the lag screws.

FOR QUICK INSTALL FLAG ANGLES OR FULLY ADJUSTABLE FLAG ANGLES: Loosely fasten jamb brackets and flag angle to the jamb using 5/16" x 1-5/8" lag screws. Tighten lag screws, securing the bottom jamb bracket to jamb, maintain 3/8" to 5/8" spacing as shown between the bottom section and vertical track. Hang counterbalance lift cable over flag angle. Repeat same process for other side.

FOR RIVETED VERTICAL TRACK ASSEMBLY: Loosely fasten jamb brackets and flag angle to the jamb using 5/16" x 1-5/8" lag screws. Tighten lag screws, securing the bottom jamb bracket to jamb, maintain 3/8" to 5/8" spacing as shown between the bottom section and vertical track. Hang counterbalance lift cable over angle mount. Repeat same process for other side.

Stacking Sections

NOTE: The sections can be identified by the graduation of the installed graduated end hinges. The smallest graduated end hinge on section should be stacked on top of the bottom section, with each graduated end hinge increasing as the sections are stacked.

NOTE: Make sure graduated end and center hinges are flipped down, when stacking another section on top.

Place track rollers into graduated end hinges of remaining sections.

With assistance, lift second section and guide the track rollers into the vertical tracks. Lower section until it is seated against bottom section. Flip hinges up. Fasten hinge(s) first; then end hinges last using 1/4" - 14 x 7/8" self-drilling screws.

Repeat same process for other sections, except top section.

IMPORTANT: PUSH & HOLD THE HINGE LEAF SECURELY AGAINST THE SECTIONS WHILE SECURING WITH 1/4" - 14 X 7/8" SELF-DRILLING SCREWS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAVES AND THE SECTIONS.

NOTE: Install lock at this time (sold separately). See optional installation step, Side Lock.
Stacking Top Section

Place the top section in the opening. Install a nail to prevent the top section from falling backwards. Now, flip up the hinge leaves, hold tight against section, and fasten center hinges first and end hinges last (refer to step, Stacking Sections). Vertical track alignment is critical. Position flag angle or wall angle between 1-11/16" (43 mm) to 1-3/4" (44 mm) from the edge of the door; tighten the bottom lag screw. Flag angles must be parallel to the door sections. Repeat for other side.

IMPORTANT: THE DIMENSION BETWEEN THE FLAG ANGLES OR WALL ANGLES MUST BE DOOR WIDTH PLUS 3-3/8" (86 MM) TO 3-1/2" (89 MM) FOR SMOOTH, SAFE DOOR OPERA-
TION.

FOR QUICK INSTALL TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Repeat for other side.

FOR FULLY ADJUSTABLE TRACK OR RIVETED TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Push the vertical track against the track rollers so that the track rollers are touching the deepest part of the curved side of the track; tighten all the track bolts and nuts. Repeat for other side.

FOR ANGLE MOUNT TRACK: Complete the vertical track installation by securing the jamb bracket(s) and tightening the other lag screws. Push the vertical track against the track rollers so that the track rollers are touching the deepest part of the curved side of the vertical track, as shown. Repeat for other side.

Attaching Drawbar Operator Bracket

IMPORTANT: TO AVOID POSSIBLE DAMAGE TO YOUR DOOR, WAYNE DALTON RECOMMENDS REINFORCING THE TOP SECTION WITH A STRUT. IMPORTANT: WHEN CONNECTING A TROLLEY TYPE GARAGE DOOR OPENER TO THIS DOOR, A WAYNE DALTON OPERATOR/ TROLLEY BRACKET MUST BE SECURELY ATTACHED TO THE TOP SECTION OF THE DOOR IF ONE HAS BEEN PROVIDED. ALONG WITH ANY STRUTS PROVIDED WITH THE DOOR (IF A WAYNE DALTON OPERATOR/ TROLLEY BRACKET WAS NOT PROVIDED WITH YOUR DOOR, THEN USE THE ONE PROVIDED BY YOUR OPERATOR MANUFACTURER). THE INSTALLATION OF THE OPERATOR MUST BE ACCORDING TO MANUFACTURER’S INSTRUCTIONS AND FORCE SETTINGS MUST BE ADJUSTED PROPERLY.

NOTE: For retro fit applications, the drawbar operator bracket must be aligned with an existing operator.

FOLLOW THE CORRESPONDING STEP BELOW:
A: Place the bottom half of drawbar operator bracket inside the top half of drawbar operator bracket and flush against the inside surface of the top section. Adjust both the top and bottom halves out as far apart as possible on the section surface. Secure the bottom half drawbar operator bracket and the top half drawbar operator bracket together using (4) 5/16" - 18 x 1/2" carriage bolts and (4) 5/16" - 18 flange hex nuts.

NOTE: Install the 5/16" - 18 x 1/2" carriage bolts and the 5/16" - 18 flange hex nuts as far apart as possible, prior to securing both top and bottom halves together.

Now, locate the center of the top section and align the center of the holes in the drawbar operator bracket assembly with the top section center line. Align the drawbar operator bracket assembly vertically.

Slide the top half of the drawbar operator bracket under the strut, keeping the drawbar operator bracket aligned with the center line. Remove the struts’s screws, if necessary and attach to the top section (through strut if necessary) using (3) 1/4" - 20 x 7/8" self drilling screws.

NOTE: If your door lacks a strut on the top section, ignore the previous paragraph.

Attach the bottom half of the drawbar operator bracket to the section surface using (3) 1/4" - 20 x 7/8" self drilling screws.

NOTE: When attaching drawbar operator bracket to top section with strut, apply additional pressure to thread into the strut.

Attaching Horizontal Tracks

NOTE: Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles, Riveted Vertical Track Assemblies or you may have Angle Mount Vertical Track Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Flag Angles / Vertical Track Assemblies you have.

WARNING
DO NOT RAISE DOOR UNTIL HORIZONTAL TRACKS ARE SECURED AT REAR, AS OUTLINED IN STEP, REAR BACK HANGS, OR DOOR COULD FALL FROM OVERHEAD POSITION CAUSING SEVERE OR FATAL INJURY.

IF YOU HAVE QUICK INSTALL FLAG ANGLES: To install horizontal track, place the curved end over the top track roller of the top section. Align key slot of the horizontal track with the Quick Install tab of the flag angle. Push curved portion of horizontal track down to lock in place.
ATTACHING REAR BACK HANGS

Raise the door until the top section and half of the next section are in the horizontal track radius. Do not raise door any further since rear of horizontal tracks are not yet supported.

**WARNING**

**RAISING DOOR INTO THE LOOSE HORIZONTAL TRACKS CAN RESULT IN DOOR FALLING AND CAUSE SEVERE OR FATAL INJURY.**

Clamp a pair of locking pliers onto the vertical tracks just above the second track roller on one side, and just below the second track roller on the other side. This will prevent the door from raising or lowering while installing the rear back hangs.

Using the chart below, select the appropriate perforated angle (may not be supplied). Fabricate and install rear back hangs, as shown.

**NOTE:** If an opener is installed, position horizontal tracks one hole above level when securing them to the rear back hangs.

Perforated Angle Gauge Weight Limitations For Extension Springs:

<table>
<thead>
<tr>
<th>Perforated Angle Gauge</th>
<th>Door Balance Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; x 2&quot; x 12 Gauge</td>
<td>Less Than 400 lbs.</td>
</tr>
<tr>
<td>1-1/4&quot; x 1-1/4&quot; x 13 Gauge</td>
<td>Less Than 175 lbs.</td>
</tr>
</tbody>
</table>

**WARNING**

**MAKE SURE BACK HANGS ARE BRACED SUFFICIENTLY TO RESIST ANY MOTION DURING SPRING APPLICATION AND DOOR TRAVEL. IF BACK HANGS PIVOT OR DEFLECT, ADD REINFORCEMENT UNTIL THEY REMAIN FIRM AND STATIONARY. ANY BACK HANG THAT HAS BENT MUST BE REPLACED.**

**WARNING**

**KEEP HORIZONTAL TRACKS PARALLEL AND WITHIN 3/4" TO 7/8" FROM DOOR EDGE, OTHERWISE DOOR COULD FALL, RESULTING IN SEVERE OR FATAL INJURY.**

**IMPORTANT:** Do not support the weight of the door on any part of the rear back hangs that cantilevers 4" or more beyond a sound framing member.

**NOTE:** Rear back hangs are to be installed over drywall, use (2) 5/16" x 2" head lag screws and make sure lag screws engage into solid structural lumber.

**WARNING**

**FAILURE TO ASSEMBLE AND ATTACH REAR BACK HANGS PROPERLY ACCORDING TO THE ABOVE INSTRUCTIONS MAY RESULT IN DOOR FALLING WHEN RAISED, CAUSING SEVERE OR FATAL INJURY.**
NOTE: Perforated angle must be attached to sound framing members and nails should not be used.

IF YOU HAVE 3" FRONT CABLE LIFT SHEAVE AND A 12" RADIUS HORIZONTAL TRACK:
Starting on the left hand side and using (1) 3/8" - 16 hex nut, secure the front cable lift sheave to the 13/32" hole near the top of the flag angle, as shown.

IF YOU HAVE 3" OR 4" FRONT CABLE LIFT SHEAVE AND A 15" RADIUS HORIZONTAL TRACK: Starting on the left hand side and using (1) 3/8" - 16 hex nut, secure the front cable lift sheave to the first 13/32" hole in the horizontal angle, as shown.

Repeat the same process for the right hand side.

WARNING
Failure to install spring restraint cables can result in severe or fatal injury in case of spring breakage.

Position (1) 5/16" - 18 x 3-3/4" eye bolt and (1) 5/16" - 18 hex nut into the rear back hang, 6" to 8" above the horizontal track, as shown. Feed the spring safety cable through the rear back hang and tie the special knot around the "room side" of the 3 hole clip, as shown.

Secure the eye bolt and 3 hole clip to the rear back hang using (1) 5/16" - 18 hex nut. Hook one end of the extension spring onto the eye bolt. Feed the spring safety cable through the rear extension spring loop and center of the extension spring then front spring loop, pull the spring safety cable taut and tie the special knot around the "jamb side" of the 3 hole clip. Attach the "jamb side" 3 hole clip to the jamb near the flag angle using (1) 5/16" x 1-5/8" lag bolt. Repeat the same process for the other side.

IMPORTANT: SPRING RESTRAINT CABLES MUST BE TAUT AND EQUALIZED.
Attaching Spring Sheaves

Hook the sheave fork through the front loop of the extension spring and attach the sheave fork to the rear cable lift sheave using (1) 3/8" - 16 x 1-1/4" hex head bolt and (1) 3/8" - 16 hex nut. Thread the counterbalance lift cable over the front cable lift sheave and around the rear cable lift sheave and tie the special knot around the “horizontal angle” using a 3 hole clip, as shown.

Insert one end of the large “S” hook into the “horizontal angle” with the 3 hole clip and the other end into the second slot of the horizontal angle, as shown. Repeat for the other side.

IMPORTANT: CLOSE “S” HOOKS AND EYE BOLTS WITH LOCKING PLIERS, TO PREVENT SPRINGS FROM COMING LOOSE.

WARNING
FAILURE TO CLOSE “S” HOOKS AND EYE BOLTS CAN RESULT IN SEVER OR FATAL INJURY IF SPRINGS COME LOOSE.

Counterbalance Lift Cable Adjustments

Adjust counterbalance lift cables to create about 1" to 2" (25 mm to 50 mm) of initial extension spring stretch, with the door in the fully opened position. Measure relaxed extension spring length for your door height and verify with the chart below. Spring length must be the same for both extension springs to allow even door balance. Carefully remove the locking pliers from the horizontal track and lower the door into the closed position. Once the door is closed, measure the extension spring length in tension for both sides. Using the chart, verify the spring length in tension is correct with your door height.

NOTE: It may be necessary to adjust spring length for proper door balance.

<table>
<thead>
<tr>
<th>Door Height</th>
<th>Spring Length Relaxed (Door Open)</th>
<th>Spring Length Extended (Door Closed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6' 0&quot;</td>
<td>25&quot; (635 mm)</td>
<td>61&quot; (1549 mm)</td>
</tr>
<tr>
<td>6' 3&quot;</td>
<td>25&quot; (635 mm)</td>
<td>62-1/2&quot; (1588 mm)</td>
</tr>
<tr>
<td>6' 6&quot;</td>
<td>25&quot; (635 mm)</td>
<td>64&quot; (1626 mm)</td>
</tr>
<tr>
<td>7' 0&quot;</td>
<td>25&quot; (635 mm)</td>
<td>67&quot; (1702 mm)</td>
</tr>
<tr>
<td>7' 6&quot;</td>
<td>27&quot; (686 mm)</td>
<td>72&quot; (1829 mm)</td>
</tr>
<tr>
<td>7' 9&quot;</td>
<td>27&quot; (686 mm)</td>
<td>73-1/2&quot; (1867 mm)</td>
</tr>
<tr>
<td>8' 0&quot;</td>
<td>27&quot; (686 mm)</td>
<td>75&quot; (1905 mm)</td>
</tr>
</tbody>
</table>

Balancing Door

Lift door and check its balance. If door rises off floor more than 2 ft. under spring tension alone, reduce spring tension by adjusting extension spring length, moving the “S” hook backward (towards the rear back hangs) to a different hole in the horizontal track. If the door is hard to rise or drifts down on its own, adjust extension spring length by moving the “S” hook forward (towards the header) to a different hole in the horizontal track. A poorly balanced door can cause garage door operator problems.

IMPORTANT: WHENEVER ADJUSTING EXTENSION SPRING LENGTH FOR DOOR BALANCE, ALWAYS OPEN THE DOOR TO THE FULLY OPEN POSITION AND RETURN THE LOCKING PLIERS, AS SHOWN IN F3 TO THE HORIZONTAL TRACKS BELOW THE BOTTOM TRACK ROLLERS.

If the door still does not operate easily, raise the door into the open position, return the locking pliers, and recheck the following items:
1.) Is the door level?
2.) Are the flag angles level and plumb?
3.) Does the distance between the flag angles equal door width plus 3-3/8" to 3-1/2"?
4.) Do the counterbalance lift cables have equal tension? Adjust by re-tieing the special knot, if necessary.
5.) Make sure door is not rubbing on jambs.

IMPORTANT: IF DOOR STILL DOES NOT BALANCE PROPERLY, THEN CONTACT A TRAINED DOOR SYSTEM TECHNICIAN.

Attaching Weather Seal

Permanently attach the weatherstrips on both door jambs and header. The weatherstrips were temporarily attached in Preparing the Opening, in the pre-installation section of this manual.

NOTE: When permanently attaching the weatherstrips to the jambs, avoid pushing the weatherseals too tightly against the face of door.

NOTE: Door not shown for clarity.
IMPORTANT: USING THE ILLUSTRATION, ATTACH THE APPROPRIATE LABELS TO THE APPROPRIATE LOCATION ON THE SECTION, AS SHOWN.

NOTE: The Spring Warning tag(s) are factory attached (one per spring).

NOTE: Because of different configurations, some labels may require minor relocations.

INSPECT THIS LABEL PERIODICALLY FOR THIS LABEL. PRODUCT USER SHOULD MANUFACTURER AS NEEDED.

1. DO NOT attempt any adjustment, repair or alteration to any part of the door, or anything else from horizontal tracks.

2. If a door becomes hard to operate, adjusted and free of obstructions. Operate door ONLY when it is properly inoperative or is damaged, immediately.

3. DO NOT stand or walk under a moving door, adjusted and free of obstructions.

4. DO NOT permit children to operate garage door manually.

5. DO NOT permit children to operate garage door manually.

6. Due to constant extreme spring tension, door or door controls.

7. DO NOT attempt any adjustment, repair or removal or made inoperative in the open (unlocked) position.

8. Bottom corner brackets, red colored especially to springs, spring brackets, system technician using proper tools and such work performed by a trained door manufacturer's instructions.

9. Lift handles/gripping points are required installation instructions, even if the door available or is damaged, immediately.

10. Top section of door may need to be reinforced when attaching an electric manufacturer's instructions.

11. VISUALLY inspect door and hardware manufacturer as needed.


13. DO NOT place fingers or hands into open or permit anybody to stand or walk under an electrically operated door.

14. Residential warning label, The warning label will either be on the right or the left end stile.

15. Bottom corner bracket warning labels
Inside Lock

Install the inside lock on the second section of the door. Secure the lock to the section with (4) 1/4" - 20 x 11/16" self drilling screws. Square the lock assembly with the door section, and align with the square hole in the vertical track. The inside lock should be spaced approximately 1/8" away from the section edge.

**IMPORTANT:** INSIDE LOCK(S) MUST BE REMOVED OR MADE INOPERATIVE IN THE UN-LOCKED POSITION IF AN OPERATOR IS INSTALLED ON THIS DOOR.

Pull Down Rope

**WARNING**

DO NOT INSTALL PULL DOWN ROPE ON DOORS WITH OPERATORS. CHILDREN MAY BECOME ENTANGLED IN THE ROPE CAUSING SEVERE OR FATAL INJURY.

Measure and mark the jamb approximately 48" to 50" (1220 to 1270 mm) from floor on the right or left side of jamb. Drill 1/8" pilot hole for no. 6 screw eye. Tie the pull down rope to the no. 6 screw eye and to the bottom corner bracket, as shown.

Door Arm Hookup

**NOTE:** If overhead door operator / trolley bracket was installed, follow these directions. Align hole in the door arm with holes in drawbar operator bracket tabs, as shown. Attach with 5/16" x 1-3/4" cotter pin and cotter ring.
Cleaning Your Garage Door

Like any other exterior surface, Wayne Dalton garage doors will have dirt exposure from atmospheric conditions. Ordinarily, the cleaning action of rainfall will be adequate to wash the door, or the door can be washed periodically by hosing with a garden hose and clear water (in particular) for the areas not accessible to rain. If you desire to do a more thorough cleaning, or where soil collection conditions occur, follow these simple instructions:

1. Use a soft-bristled, long-handled washing brush. It attaches to your garden hose and makes washing your garage door easier. Do not rub vigorously which may create glossy areas over the vinyl finish.
2. For hard-to-remove dirt, such as soot and grime found in industrial areas, wash the garage door down with a mild solution consisting of the following ingredients:
   - One cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water.

NOTE: The use of detergents containing greater than 0.5% phosphate is not recommended for use in general cleaning of garage doors.

DO NOT PAINT DOOR. PAINTING DOOR WILL VOID YOUR WARRANTY.

Operation And Maintenance

OPERATING YOUR GARAGE DOOR: Before you begin, read all warning labels affixed to the door and the installation instructions and owner’s manual. When correctly installed, your Wayne Dalton door will operate smoothly. Always operate your door with controlled movements. Do not slam your door or throw your door into the open position, this may cause damage to the door or its components. If your door has an electric opener, refer to the owner’s manual to disconnect the opener before performing manual door operation below.

MANUAL DOOR OPERATION: For additional information on manual garage door operations go to www.dasma.com and reference TDS 165.

DO NOT PLACE FINGERS OR HANDS INTO SECTION JOINTS WHEN OPENING AND/OR CLOSING A DOOR. ALWAYS USE LIFT HANDLES / SUITABLE GRIPPING POINTS WHEN OPERATING THE DOOR MANUALLY.

OPENING A DOOR: Make sure the lock(s) are in the unlocked position. Lift the door by using the lift handles / suitable gripping points only. Door should open with little resistance.

CLOSING A DOOR: From inside the garage, pull door downward using lift handles / gripping point only. If you are unable to reach the lift handles/ suitable gripping points only, use pull down rope affixed to the side of door. Door should close completely with little resistance.

USING AN ELECTRIC OPERATOR:

IMPORTANT: PULL DOWNropes MUST be REMOVED and LOCKS MUST be REMOVED or MADE INOPERATIVE in the UNLOCKED POSITION.

When connecting a drawbar (trolley type) garage door operator to this door, a drawbar operator bracket must be securely attached to the top section of the door, along with any struts provided with the door. Always use the drawbar operator bracket supplied with the door. To avoid possible damage to your door, Wayne Dalton recommends reinforcing the top section with a strut (may or may not be supplied). The installation of the drawbar operator must be according to manufacturer’s instructions and force settings must be adjusted properly. Refer to the owner’s manual supplied with your drawbar operator for complete details on installation, operation, maintenance and testing of the operator.

MAINTAINING YOUR GARAGE DOOR: Before you begin, read all warning labels affixed to the door and the installation instructions and owner’s manual. Follow routine maintenance steps once a month, and have the door professionally inspected once a year. Review your Installation Instructions and Owner’s Manual for the garage door. These instructions are available at no charge from Wayne Dalton, a division of Overhead Door Corporation, P.O. Box 67, Mt. Hope, OH, 44660, or at www.Wayne-Dalton.com. For additional information on garage door/operator maintenance go to www.dasma.com and reference TDS 151, 167 and 179.

Monthly Inspections:

1. Visual Inspection: Closely inspect jambs, header and mounting surface. Any material found not to be structurally sound must be replaced. It may be necessary to uninstall part or all of the door assembly in order to replace defective material. Refer to the supplemental instructions “Removing an Existing Door / Preparing the Opening” at www.Wayne-Dalton.com. Inspect the spring(s), counterbalance lift cables, track rollers, pulleys, rear track hinges and other door hardware for signs of worn or broken parts. Tighten any loose screws and/or bolts, except on bottom corner brackets or on the counterbalance assembly. Check exterior surface of the door sections for any minor cracks. Verify door has not shifted right or left in the opening. If you suspect problems, contact a trained door system technician.

WARNING

GARAGE DOOR SPRINGS, COUNTERBALANCE LIFT CABLES, BRACKETS, AND OTHER HARDWARE ATTACHED TO THE SPRINGS ARE UNDER EXTREME TENSION, AND IF HANDLED IMPROPERLY, CAN CAUSE SEVERE OR FATAL INJURY. ONLY A TRAINED DOOR SYSTEMS TECHNICIAN SHOULD ADJUST THEM, BY CAREFULLY FOLLOWING THE MANUFACTURER’S INSTRUCTIONS.

WARNING

NEVER REMOVE, ADJUST, OR LOOSEN THE BOLTS, SCREWS AND/OR LAG SCREWS ON THE COUNTERBALANCE (END BEARING BRACKETS, DRUMS OR SPRING SYSTEM) OR BOTTOM CORNER BRACKETS OF THE DOOR. THESE BRACKETS ARE CONNECTED TO THE SPRING(S) AND ARE UNDER EXTREME TENSION. TO AVOID POSSIBLE SEVERE OR FATAL INJURY, HAVE ANY SUCH WORK PERFORMED BY A TRAINED DOOR SYSTEMS TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

TORQUEMASTER® PLUS SPRINGS: Pawl knob(s) (located on the TorqueMaster® end brackets above the door) should be engaged to prevent the door from rapidly descending in case of spring failure or forcful manual operation.

EXTENSION SPRINGS: A restraining cable or other device should be installed on the extension spring (located above the horizontal tracks) to help contain the spring if it breaks.

2. Door Balance: Periodically test the balance of your door. If you have a garage door drawbar operator, use the release mechanism so you can operate the door by hand when doing this test. Start with the door in the fully closed position. Using handles or suitable gripping points, lift the door to check its balance. Adjust TorqueMaster® or Extension spring(s), if door lifts by itself (hard to pull down) or if door is difficult to lift (easy to pull down), DO NOT attempt to repair or adjust Torsion springs yourself. To adjust TorqueMaster® or Extension spring(s), refer to your installation instructions and owner’s manual. If in question about any of the procedures, do not perform the work. Instead, have it adjusted by a trained door systems technician.

3. Lubrication: The door should open and close smoothly. Ensure the door track rollers are rotating freely when opening and closing the door. If track rollers do not rotate freely, clean the door tracks, removing dirt and any foreign substances. Clean and lubricate (use a non-silicon based lubricant) graduated end hinges, center hinges, steel track rollers, bearings and torsion springs (torsion spring coil surfaces). DO NOT Lubricate plastic idler bearings, nylon track rollers, door track. DO NOT oil a cylinder lock, if actuation is difficult use a graphite dust to lubricate.

CHECK FOR PRESENCE OF SAFETY LABELS:
Limited Warranty
Model 8700

Wayne Dalton, a division of Overhead Door Corporation ("Seller") warrants to the original purchaser of the Model 8700 ("Product"), subject to all of the terms and conditions hereof, that the Product and all components thereof will be free from defects in materials and workmanship for the following period(s) of time, measured from the date of installation:

• **FIFTEEN (15) YEARS** - Against peeling flaking, chipping or cracking of the vinyl skin.
• **FIVE (5) YEARS** - Against excessive color fading of the vinyl skin, not due to normal weathering, which materially alters the color of the Product and cannot be remedied by cleaning with the recommended solution.
• **ONE (1) YEAR** - All other components of the Product.

Seller's obligation under this warranty is specifically limited to repairing or replacing, at its option, any part which is determined by Seller to be defective during the applicable warranty period. Any labor charges are excluded and will be the responsibility of the purchaser.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is made to the original purchaser of the Product only, and is not transferable or assignable. This warranty applies only to Product installed in a residential or other non-commercial application. It does not cover any Product installed in commercial or industrial building applications. This warranty does not apply to any unauthorized alteration or repair of the Product, or to any Product or component which has been damaged or deteriorated due to misuse, neglect, accident, failure to provide necessary maintenance, improper installation of hardware, puncture, normal wear and tear, or acts of God or any other cause beyond the reasonable control of Seller.

This warranty specifically excludes any damage resulting from scratching, abrasion or impact by any hard object or exposure to toxic or abrasive environments including toxic chemicals or fumes, and any fading or color change which may not be uniform due to unequal exposure of the curtains to sunlight or other elements. The Product is not recommended for use in hot, dry climates. This warranty specifically excludes coverage for any Product used or installed in Utah, Arizona, Nevada, New Mexico, Colorado and the West and Southwest regions of Texas. The Limited Warranty for the sections of the door will be voided if sections are painted.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE APPLICABLE WARRANTY PERIOD REFLECTED ABOVE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Claims under this warranty must be made promptly after discovery, within the applicable warranty period, and in writing to the authorized distributor or installer whose name and address appear below. The purchaser must allow Seller a reasonable opportunity to inspect any Product claimed to be defective prior to removal or any alteration of its condition. Proof of the purchase and/or installation date, and identification as the original purchaser, may be required. There are no established informal dispute resolution procedures of the type described in the Magnuson-Moss Warranty Act.

• **SELLER:**
  _______________________________________________________________________

• **SELLER’S ADDRESS:**
  _______________________________________________________________________

______________________________________________________________________
Thank you for your purchase.

Please do not return this product to the store

If you need assistance, please call 1-866-569-3799 (press Option 1) and follow the prompts to contact a customer service representative. They will be happy to handle any questions that you may have.

After installation is complete, leave this Installation Instructions And Owner’s Manual with the homeowner, or fasten it near garage door for easy reference.