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

Model 9800

TorqueMaster® Plus

Residential

Rear Mount Low Headroom

Installation Instructions and Owner’s Manual

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**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.

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

**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.**
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.

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

<table>
<thead>
<tr>
<th>Potential Hazard</th>
<th>Effect</th>
<th>Prevention</th>
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<tr>
<td>Moving door</td>
<td><strong>WARNING</strong></td>
<td>Could result in Death or Serious Injury</td>
</tr>
<tr>
<td>High tension spring</td>
<td><strong>WARNING</strong></td>
<td>Could result in Death or Serious Injury</td>
</tr>
</tbody>
</table>

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

**IMPORTANT:** COUNTERBALANCE SPRING TENSION MUST ALWAYS BE RELEASED BEFORE ANY ATTEMPT IS MADE TO START REMOVING AN EXISTING DOOR.

**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 retro-fit 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 jamb 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. The jambs must be plumb and 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 jamb, 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 Type</th>
<th>Manual Lift</th>
<th>Motor Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot; to 7'0&quot;</td>
<td>6&quot; LHR</td>
<td>106&quot; (2692 mm)</td>
<td>125&quot; (3175 mm)</td>
</tr>
<tr>
<td>7'1&quot; to 8'0&quot;</td>
<td>6&quot; LHR</td>
<td>118&quot; (2997 mm)</td>
<td>137&quot; (3480 mm)</td>
</tr>
</tbody>
</table>

HEADROOM REQUIREMENTS

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Space Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; LHR</td>
<td>9&quot; (229 mm)</td>
</tr>
</tbody>
</table>

Package Contents

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.
Door Section Identification

Graduated end and center hinges are always pre-attached at the top of each section (except top section) and the graduated end hinges are stamped for identification, #1, #2 and #3. The stamp identifies the stacking sequence of the section. The sequence is always determined by #1 being the bottom section to #2 or #3 being the highest intermediate section. If the stamp on the graduated end hinge is illegible, refer to the section side view illustration. The section side view illustration shows the graduated end hinge profile of all sections, and can also be used to identify each section.

The **BOTTOM SECTION** can be identified by #1 graduated end hinges, the factory attached bottom weather seal, the factory attached bottom corner brackets and by the bottom corner bracket warning labels on each end stile.

The **LOCK SECTION** can be identified by #2 graduated end hinges on a 4 section high door and by #3 graduated end hinges on a 3 section high door. Also, on a 3 section door, the lock section will come with a warning label attached to the right or left endstile.

The **INTERMEDIATE SECTION** can be identified by #3 graduated end hinges (Only on a 4 section high door). The section will have a warning label attached to either the right or left hand end stile.

The **TOP SECTION** can be identified with no pre-installed graduated end or center hinges.

### Tools Required

- Power drill
- Socket driver: 7/16"
- 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
- Vise clamps
- Hammer
- Step ladder
- Leather gloves
- Pencil
- Saw horses
- Safety glasses
- Approved winding bars
- Locking pliers
- 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 models may have unique variations.

A. FLAG ANGLES (AS REQUIRED):
   A1. Quick Install (Q.I.) Flag Angles
   A2. Fully Adjustable (F.A.) Flag Angles

B. JAMB BRACKETS (AS REQUIRED):
   B1. Quick Install (Q.I.) Jamb Brackets
   B2. Fully Adjustable (F.A.) Jamb Brackets

C. TRACK ROLLERS (AS REQUIRED):
   C1. Short Stem Track Rollers
   C2. Long Stem Track Rollers

D. GRADUATED END HINGES:
   D1. Single Graduated End Hinges (S.E.H.), Anti-Pinch
   D2. Double Graduated End Hinges (D.E.H.), Anti-Pinch

E. STACKED SECTIONS:
   E1. Top Section
   E2. Intermediate(s) Section
   E3. Lock Section
   E4. Bottom Section

F. TOP FIXTURE ASSEMBLIES (AS REQUIRED):
   F1. Top Fixtures

G. STRUT(S) (AS REQUIRED):
   G1. Strut (U - shaped)

H. DRAWBAR OPERATOR BRACKET (FOR TROLLEY OPERATED DOORS):
   H1. Drawbar Operator Bracket

I. TRACKS (AS REQUIRED):
   I1. Left Hand Horizontal Track Assembly
   I2. Right Hand Horizontal Track Assembly
   I3. Left Hand Vertical Track
   I4. Right Hand Vertical Track
   I5. Left Hand Riveted Vertical Track Assembly
   I6. Right Hand Riveted Vertical Track Assembly

J. TORQUEMASTER PLUS® SPRING ASSEMBLY:
   J1. Center Bracket Bushing Assembly
   J2. TorqueMaster® Spring Tube (Single Or Double Springs)
   J3. Left Hand End Bracket (Double Springs Only)
   J4. Right Hand End Bracket (Disconnect Cable Guide)
   J5. Left Hand And Right Hand Cable Drum Assemblies
   J6. Idler bracket (Single Spring Only)
   J7. Reinforcing Brackets (If Included)
   J8. Cable Lift Sheaves

K. REAR BACK HANGS (AS REQUIRED):
   K1. Left Hand Rear Back Hang Assembly
   K2. Right Hand Rear Back Hang Assembly

L. BOTTOM CORNER BRACKETS (AS REQUIRED):
   L1. Left Hand Bottom Corner Bracket
   L2. Right Hand Bottom Corner Bracket
**ATTACHING FLAG ANGLES AND JAMBRACKETS TO VERTICAL TRACKS**

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

**FOR DOORS WITH QUICK INSTALL TRACK:** Place the lower Quick Install tab of the left hand flag angle in the Quick Install feature of the left hand vertical track. Give the flag angle 1/4 turn to lock in place. Measure the length of the vertical tracks. Using the jamb bracket schedule, determine the placement of the jamb brackets for your height and track length. To install the jamb brackets, align the Quick Install tab on the Quick Install jamb bracket with the Quick Install feature in the vertical track and turn the bracket perpendicular to the track so the mounting flange is toward the back (flat) leg of the track. Repeat the same process for the right hand side.

### 1ST SET 2ND SET 3RD SET

<table>
<thead>
<tr>
<th>DOOR HEIGHT</th>
<th>TRACK LENGTH</th>
<th>1ST SET</th>
<th>2ND SET</th>
<th>3RD SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot;</td>
<td>57.50&quot;</td>
<td>5</td>
<td>M</td>
<td>8</td>
</tr>
<tr>
<td>6'6&quot; - 7'0&quot;</td>
<td>63.50&quot;</td>
<td>3</td>
<td>B</td>
<td>6</td>
</tr>
<tr>
<td>7'3&quot; - 8'0&quot; (4 Sec)</td>
<td>72.50&quot;</td>
<td>3</td>
<td>B</td>
<td>7</td>
</tr>
</tbody>
</table>

**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.

### 2ND SET 3RD SET 1ST SET

<table>
<thead>
<tr>
<th>DOOR HEIGHT</th>
<th>TRACK LENGTH</th>
<th>1ST SET</th>
<th>2ND SET</th>
<th>3RD SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot;</td>
<td>57.50&quot;</td>
<td>5</td>
<td>M</td>
<td>8</td>
</tr>
<tr>
<td>6'6&quot; - 7'0&quot;</td>
<td>63.50&quot;</td>
<td>3</td>
<td>B</td>
<td>6</td>
</tr>
<tr>
<td>7'3&quot; - 8'0&quot; (4 Sec)</td>
<td>72.50&quot;</td>
<td>3</td>
<td>B</td>
<td>7</td>
</tr>
</tbody>
</table>

**NOTE:** Repeat the same process for the right hand side.

### CABLE DRUM ASSEMBLIES AND TRACK ROLLERS

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

**NOTE:** Cable drum assemblies are marked right and left hand.

**WARNING**

FAILURE TO ENSURE TIGHT FIT OF CABLE LOOP OVER CLEVIS PIN COULD RESULT IN COUNTERBALANCE LIFT CABLE COMING OFF THE PIN, ALLOWING THE DOOR TO FALL, POSSIBLY RESULTING IN SEVERE OR FATAL INJURY.

Uncoil the counterbalance lift cables from the cable drum assemblies. Locate the left hand bottom corner bracket. Place clevis pin into the inside tab of the bottom corner bracket and slide the left hand cable loop of the counterbalance lift cable onto pin. Continue sliding clevis pin thru the outside tab of the bracket. Place a washer onto clevis pin and secure in place using a cotter pin.

Position the left hand bottom corner bracket onto the bottom section. Attach the bottom corner bracket to the bottom section with (3) 1/4" - 20 x 11/16" RED HEAD self drilling screws and (2) 1/4" - 20 x 11/16" self drilling screws, as shown. Repeat same process for the right hand side.

**IMPORTANT:** THE 1/4" - 20 X 11/16" RED HEAD SELF DRILLING SCREWS MUST BE MUST BE INSTALLED THROUGH THE HOLES OF THE BOTTOM CORNER BRACKETS, AS SHOWN. Insert a short stem track roller into the bottom corner brackets and another into the #1 graduated end hinges at the top of the bottom section.
3. **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.

4. **Vertical Tracks**

- **NOTE:** Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles or you may have Riveted 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, 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.

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

- **NOTE:** Larger doors will use long stem track rollers with double graduated end hinges. 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. Align vertical marks in the upper alignment sticker, with the lower alignment sticker on right hand side, on the back of door. Keep sections aligned. Flip hinges up. Fasten center hinge(s) first, then end hinges last using 1/4" - 14 x 5/8" self-tapping screws.

- **NOTE:** To prevent center hinge leaf(s) from rotating, first secure the top middle hole of the center hinge leaf with one 1/4" - 14 x 5/8" self-tapping screw then secure the other two holes.

- **NOTE:** Larger doors with double graduated end hinges, fasten both hinges to connect the sections using 1/4" - 14 x 5/8" self-tapping screws.

Repeat same process for other sections, except top section.

- **IMPORTANT:** Push & Hold the hinge leafs securely against the sections while securing with 1/4" - 14 x 5/8" self-tapping screws. There should be no gap between the hinge leafs and the sections.

- **NOTE:** Install lock at this time (sold separately). See optional installation step, Side Lock.

---

5. **Stacking Sections**

- **NOTE:** The sections can be identified by the graduation of the factory 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, see Door Section Identification / Breakdown of Parts.

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

- **NOTE:** Larger doors will use long stem track rollers with double graduated end hinges.

- **NOTE:** 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. Align vertical marks in the upper alignment sticker, with the lower alignment sticker on right hand side, on the back of door. Keep sections aligned. Flip hinges up. Fasten center hinge(s) first, then end hinges last using 1/4" - 14 x 5/8" self-tapping screws.

- **NOTE:** To prevent center hinge leaf(s) from rotating, first secure the top middle hole of the center hinge leaf with one 1/4" - 14 x 5/8" self-tapping screw then secure the other two holes.

- **NOTE:** Larger doors with double graduated end hinges, fasten both hinges to connect the sections using 1/4" - 14 x 5/8" self-tapping screws.

Repeat same process for other sections, except top section.

- **IMPORTANT:** Push & Hold the hinge leafs securely against the sections while securing with 1/4" - 14 x 5/8" self-tapping screws. There should be no gap between the hinge leafs and the sections.

- **NOTE:** Install lock at this time (sold separately). See optional installation step, Side Lock.
6 Attaching Top Fixtures To Top Section

Remove, but retain (2 - 4) 1/4" - 14 x 7/8" self drilling screws from the right side of the strut, allowing enough room to slide the top fixture between the section and the strut. Slide the top fixture assembly between the strut and section. Align the edge of the top fixture parallel to the top section edge. Loosely secure the top fixture and strut to the top section with (3) 1/4" - 20 x 7/8" self drilling screws through the upper and lower slots of the top fixture. Finish re-attaching the strut using the 1/4" - 20 x 7/8" self drilling screws removed previously. Insert a short stem track roller into top fixture. Repeat for left hand side.

NOTE: The top fixture will be tightened and adjusted later, in step, Adjusting Top Fixture.

7 Attaching Drawbar Operator Bracket

NOTE: If you’re installing a drawbar operator, the drawbar operator bracket must be mounted and secured prior to installing top section.

IMPORTANT: TO AVOID POSSIBLE DAMAGE TO YOUR DOOR, WAYNE DALTON RECOMMENDS REINFORCING THE TOP SECTION WITH A STRUT.

IMPORTANT: WHEN CONNECTING A DRAWBAR OPERATOR TYPE GARAGE DOOR OPENER TO THIS DOOR, A WAYNE DALTON OPERATOR/DRAWBAR OPERATOR BRACKET MUST BE SECURELY ATTACHED TO THE TOP SECTION OF THE DOOR, ALONG WITH ANY STRUT PROVIDED WITH THE DOOR. THE INSTALLATION OF THE DRAWBAR OPERATOR MUST BE ACCORDING TO MANUFACTURER’S INSTRUCTIONS AND FORCE SETTINGS MUST BE ADJUSTED PROPERLY.

Remove, but retain (4 - 6) 1/4" - 20 x 7/8" self drilling screws from the center of the strut, allowing the drawbar operator bracket to slide between the section and the strut.

Locate the center of the top section and slide drawbar operator bracket under strut until the drawbar operator bracket is seated against the strut flange.

NOTE: Prior to fastening drawbar operator bracket to top section, ensure the top edge of drawbar operator bracket is aligned with the top edge of the section, as shown.

Attach the drawbar operator bracket using (8) 1/4" - 20 x 11/16" self drilling screws (as shown). Finish re-attaching the strut using the self tapping screws removed previously.

8 Stacking Top Section

Place the top section in the opening. Temporarily secure the top section by driving a nail in the header near the center of the door and bending it over the top section. 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 or wall 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" (86MM) TO 3-1/2" (89 MM) FOR SMOOTH, SAFE DOOR OPERATION.

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.

9 Attaching Horizontal Tracks

NOTE: Depending on your door, you may have Quick Install Flag Angles, Fully Adjustable Flag Angles or you may have Riveted 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. Level the horizontal track assembly and bolt the top rail of the horizontal track to the encountered slot in the flag angle using (1) 1/4" - 20 x 9/16" track bolt, (1) 1/4" - 20 flange...
hex nut and (1) 5/16" washer. Repeat for other side.

**Quick Install tab**

**slot**

**Flag angle upper slot**

**Lower rail**

**Horizontal track**

**1/4"-20 Flange hex nut**

**Washer**

**Upper rail**

**Flag angle**

**Upper slot**

**Level**

**1/4"-20 x 9/16" Track bolt**

**Attaching Rear Back Hangs**

**IMPORTANT:** HOLD THE DOOR DOWN TO PREVENT IT FROM RISING UNEXPECTEDLY IN THE EVENT THE SPRING(S) WERE OVER-WOUND AND CAUTIOUSLY REMOVE LOCKING PLIERS FROM VERTICAL TRACKS.

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.

**Perforated Angle Gauge Weight Limitations:**

<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 800 lbs.</td>
</tr>
<tr>
<td>1-1/4&quot; x 1-1/4&quot; x 13 Gauge</td>
<td>Less Than 305 lbs.</td>
</tr>
<tr>
<td>1-1/4&quot; x 1-1/4&quot; x 15 Gauge</td>
<td>Less Than 220 lbs.</td>
</tr>
<tr>
<td>1-1/4&quot; x 1-1/4&quot; x 16 Gauge</td>
<td>Less Than 175 lbs.</td>
</tr>
</tbody>
</table>

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

**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:** If rear back hangs are to be installed over drywall, use (2) 5/16" x 2" hex 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.
**COUNTERBALANCE INSTALLATION INSTRUCTIONS**

### Preparing The TorqueMaster® Spring Tube Assembly

**NOTE:** TorqueMaster® springs come lubricated and pre-assembled inside the spring tube. To prepare for install, lay the spring tube assembly on the floor, inside garage, in front of the door, and with the labeled end to the left. Next, remove the shipping boots from the ends of the TorqueMaster® spring tube. Being cam shaped, the center bushing only fits one way. Slide the center bracket bushing assembly towards the center of the TorqueMaster® spring tube, from the right side, as shown.

### Attaching Reinforcing Brackets (if included)

**NOTE:** If reinforcing brackets were not included, skip this step. Starting on the left hand side, position the reinforcing bracket on top of the left hand rear support bracket. Insert (2) 5/16" - 18 x 1" hex head bolts through the reinforcing bracket and perforated angle and (2) 5/16" - 18 hex nuts, as shown. Tighten the nuts and repeat for the same process for the right hand side.

### Installing Cable Drum Assemblies

Shake the TorqueMaster® spring tube assembly gently to extend the winding shafts out about 5" on each side. For single spring applications, there will be no left hand spring in the TorqueMaster® spring tube assembly. Lift the TorqueMaster® spring tube assembly and rest it on top of the rear support brackets.

**NOTE:** Temporarily support the center of the TorqueMaster® spring tube assembly until the center bracket is installed in step Attaching Center Bracket.

**NOTE:** For single spring applications, there will be no left hand spring in the TorqueMaster® spring tube assembly.

**NOTE:** If winding shaft is not visible out of the right hand side, gently shake the TorqueMaster® spring tube until winding shaft sticks out 5".

**NOTE:** If both winding shafts are not visible, gently shake the TorqueMaster® spring tube until both winding shaft sticks out 5".
NOTE: Cable drum assemblies are marked right and left hand. Cable drums and TorqueMaster® spring tube assembly is cam shaped to fit together only one way.

Starting on the right hand side, slide the drum wrap over to access the counterbalance lift cable. Pre-wrap the cable drum with the counterbalance lift cable 1/2 wraps, as shown. Position the TorqueMaster® spring tube assembly so the cam peak is pointing away from the door sections. Slide the cable drum over the winding shaft until the cable drum seats against the TorqueMaster® spring tube assembly. The winding shaft must extend past the cable drum far enough to expose the splines and the grooves. Align the winding shaft grooves with the round notch in the rear support bracket.

FOR DOUBLE SPRING APPLICATIONS: Repeat for left hand side.

FOR SINGLE SPRING APPLICATIONS:
IMPORTANT: ENSURE THE SNAPS ON THE IDLER BRACKET (LEFT HAND SIDE) ARE ENGAGED INTO THE LEFT HAND CABLE DRUM, SO THAT IT DOES NOT COME BACK OUT.

NOTE: The idler bracket is designed for permanent assembly. Do not attempt to remove idler bracket once inserted into the cable drum.

NOTE: The idler bracket must extend past the cable drum far enough to expose the groove. Align the idler bracket groove with the round notch in the flag angle.

IMPORTANT: WARNING TAGS MUST BE SECURELY ATTACHED TO END BRACKET(S).

NOTE: On single spring applications, the idler was positioned in a previous step, but must be fastened in this step.

You can identify the right hand end bracket by the disconnect cable guide hole, located at the top of the end bracket.

NOTE: On single spring applications, no ratchet wheel is required on the left hand side.

Beginning with the right hand side, slide the end bracket onto the winding shaft so that the splines in the ratchet wheel fit onto the winding shaft grooves.

NOTE: If ratchet wheel falls out of end bracket, refer to illustration for proper insertion orientation.

Attach the end bracket to the rear support bracket and the reinforcing bracket (if included) using (1) 5/16” - 18 x 1” hex head bolt and (1) 5/16” - 18 hex nut, as shown.

NOTE: Ensure the 5/16” - 18 x 1” hex head bolt is going through the end bracket first and the 5/16” - 18 nut is on top of the rear support bracket or the reinforcing bracket (if included).

Now secure the end bracket to the rear support bracket using (1) 1/4” - 20 x 9/16” track bolt, (1) 5/16” flat washer and (1) 1/4” - 20 flange hex nut.

NOTE: Ensure the 1/4” - 20 x 9/16” track bolt is going through the inside of rear support bracket first, then the 5/16” flat washer and the 1/4” - 20 flange hex nut is on the outside of the rear support bracket.

NOTE: For single spring doors, make sure the cable drum is all the way up against the rear support bracket to avoid noise.

FOR DOUBLE SPRING APPLICATIONS: Repeat same process for left hand end bracket.
FOR DOUBLE SPRING APPLICATIONS: Repeat same process for left hand end bracket.

FOR SINGLE SPRING APPLICATIONS: Secure the idler bracket to the rear support bracket and the reinforcing bracket (if included) using (1) 5/16" - 18 x 1" hex head bolt and (1) 5/16" - 18 hex nut. Next secure the end bracket to the rear support bracket using (1) 1/4" - 20 x 9/16" track bolt, (1) 5/16" flat washer and (1) 1/4" - 20 flange hex nut, as shown.

Attaching Center Bracket

IMPORTANT: TORQUEMASTER® SPRING TUBE MUST BE LEVEL BEFORE SECURING CENTER BRACKET BUSHING ASSEMBLY TO HEADER.

Refering to Step Attaching Rear Back Hangs, locate the center of the TorqueMaster® spring tube and secure a perforated angle set to the ceiling as near to the center bracket bushing assembly location as possible. Slide the center bracket bushing assembly to the center of the TorqueMaster® spring tube. Position the center bracket assembly onto the perforated angle and secure using (2) 5/16" - 18 x 1" bolts and (2) 5/16" - 18 hex nuts (may not be supplied), keeping the TorqueMaster® spring tube level.

Securing Door For Winding Spring(s)

With the door in the fully closed position, place locking pliers onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while winding spring(s).

NOTE: Check the following before attempting to wind spring(s):
a. Counterbalance lift cables are secured at bottom corner brackets.
b. Counterbalance lift cables are routed unobstructed to cable drums.
c. Counterbalance lift cables are correctly installed and wound onto cable lift drums.
d. TorqueMaster® spring tube is installed correctly.
e. Review the label attached to the spring warning tag, to determine number of spring turns required.

NOTE: Door MUST be closed and locked when winding or making any adjustments to the spring(s).

Winding Spring(s)

IMPORTANT: VERIFY THAT THERE ARE NO OBSTRUCTIONS IN THE TRAVEL PATH OF THE DOOR SECTIONS OR COUNTERBALANCE LIFT CABLES.

IMPORTANT: INSPECT EACH COUNTERBALANCE LIFT CABLE MAKING SURE IT IS SEATED PROPERLY ONTO THE CABLE DRUM AND THAT BOTH COUNTERBALANCE LIFT CABLES HAVE EQUAL TENSION.

PRIOR TO WINDING SPRING(S), CHECK COUNTERBALANCE LIFT CABLES FOR EQUAL TENSION:
1. Attach locking pliers to track above top roller.
2. Grasp cable at approximate mid-door height location.
3. Draw cable toward you about 1/2" to 1" and release, noting the response of the cable.
4. Repeat above steps for other cable.
5. Adjust cable tension as needed until right and left cables both respond the same.
WARNING
WINDING SPRING(S) IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

WARNING
IT IS RECOMMENDED THAT LEATHER GLOVES BE WORN WHILE WINDING SPRINGS. FAILURE TO WEAR GLOVES MAY CAUSE INJURY TO HANDS.

NOTE: A 3" ratchet extension is recommended for added clearance from the horizontal track.

IMPORTANT: Pawl knob must be in upper position to add/remove required number of spring turns, as shown.

There are two methods for counting the spring turns as you wind. One method is to identify the black tooth on the ratchet wheel inside of the end bracket. When the wheel makes one revolution and the tooth returns to its starting point, one turn has been made. The other method is to make a mark on the winding shaft (or socket) and end bracket, and count your turns in this manner.

Check the label attached to the spring warning tag or the Winding Spring Turn Chart (below) for the required number of complete turns to balance your door.

Starting on the right hand side, turn the pawl knob on the end bracket to the upper position. Using a ratchet wrench with a 5/8" socket and a 3" extension, wind the spring by rotating the winding shaft clockwise, while watching the black tooth on the ratchet wheel or the mark on the winding shaft. After 2 to 3 turns, remove the ratchet wrench and adjust the counterbalance lift cable on the left side. Ensure counterbalance lift cables are in the first and second grooves of the cable drums, as shown in step Lift Cable Adjustments.

NOTE: Single spring applications require no spring winding on the left hand side, but lift cable tension needs to be adjusted.

IMPORTANT: Counterbalance lift cable tension must be equal on both sides prior to fully winding springs.

Check the label attached to the spring warning tag or the Winding Spring Turn Chart (below) for the required number of complete turns to balance your door.

<table>
<thead>
<tr>
<th>DOOR HEIGHT</th>
<th>SPRING TURNS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'-0&quot;</td>
<td>14</td>
</tr>
<tr>
<td>6'-3&quot;</td>
<td>14-1/2</td>
</tr>
<tr>
<td>6'-5&quot; - 6'-6&quot;</td>
<td>15</td>
</tr>
<tr>
<td>6'-8&quot; - 6'-9&quot;</td>
<td>15-1/2</td>
</tr>
<tr>
<td>7'-0&quot;</td>
<td>16</td>
</tr>
<tr>
<td>7'-3&quot;</td>
<td>16-1/2</td>
</tr>
<tr>
<td>7'-6&quot;</td>
<td>17</td>
</tr>
<tr>
<td>7'-9&quot;</td>
<td>17-1/2</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>18</td>
</tr>
</tbody>
</table>

FOR SINGLE SPRING APPLICATIONS: Return to the right hand end bracket and continue winding the spring to the required number of turns for your door. Place pawl knob in lower position.

FOR DOUBLE SPRING APPLICATIONS: Either use the black tooth on the ratchet wheel for winding reference or place a mark on the winding shaft and end bracket. Place the ratchet wrench with 5/8" socket and a 3" extension onto the left hand winding shaft end. To wind the spring, rotate the winding shaft clockwise, while watching the black tooth on the ratchet wheel or the mark on the winding shaft. Rotate the winding shaft to the required number of winding turns for your door. Then return to the right hand side and wind the right hand spring to the required number of turns. Place pawl knob in lower position on both sides.

IMPORTANT: Mark the number of spring turns onto the end bracket warning tag.

NOTE: Since total turns to balance door can deviate from chart values by ± 1 turn, adjustments to the recommended number of turns may be required after rear back hangs are installed.

Finish installing the rear back hangs, which you temporarily installed in Step Attaching Rear Back Hangs, then proceed to next Step.

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 weatherstrips too tightly against the face of door.

NOTE: Door not shown for clarity.

IMPORTANT: Pull the counterbalance lift cable down from the ceiling to clear the latch, while simultaneously sliding the drum wrap against the last rib until the three catches engage the 3rd rib.

NOTE: Repeat the same process for right hand side.
NOTE: Windows may cause the top section to be significantly heavier than the remaining sections. Wayne Dalton attempts to balance the door at the top and bottom. To prevent any sudden door acceleration between the top and bottom, we recommend motor operating all doors with windows.

Remove any locking pliers. Lift the door and check its balance. Adjust spring(s) if door lifts by itself (hard to pull down) or if door is difficult to lift (drifts down). Anytime spring adjustments are made, ratchet pawl knob must be in the upper position. An unbalanced door can cause TorqueMaster® Plus operation problems.

Close the door and place locking pliers onto both vertical tracks just above the third track roller. This is to prevent the garage door from rising while adjusting the spring(s).

IMPORTANT: TO ADJUST SPRINGS, ONLY ADD OR REMOVE A MAXIMUM OF 3/10 OF A TURN (THREE TEETH ON THE RATCHET WHEEL) AT A TIME. BOTH SIDES NEED TO BE ADJUSTED EQUALLY ON DOUBLE SPRING DOORS.

WARNING
WINDING SPRINGS IS AN EXTREMELY DANGEROUS PROCEDURE AND SHOULD BE PERFORMED ONLY BY A TRAINED DOOR SYSTEM TECHNICIAN USING PROPER TOOLS AND INSTRUCTIONS.

ADD SPRING TENSION: The ratchet wheel is made of 10 teeth. To add spring tension, tighten counter clockwise on the right hand side and clockwise on the left hand side. Place pawl knob in upper position. Place the ratchet with 5/8” socket and 3” ratchet extension onto the winding shaft, to add 3/10 of a turn. Watch as three teeth of the ratchet wheel pass over the pawl, creating three “clicks”. Place pawl knob in lower position. For double spring applications, repeat the same process for the other side.

REMOVE SPRING TENSION: To remove spring tension, place a regular 5/8” wrench onto the winding shaft. Place pawl knob in upper position.

IMPORTANT: BE PREPARED TO HOLD THE FULL TENSION OF THE SPRING.

Pull down on the wrench to relieve pressure between the pawl and the ratchet wheel. Push in on the pawl to allow the three ratchet wheel teeth to pass by the pawl, as you carefully allow the wrench to be rotated upward by the spring tension, release the pawl to allow it to engage with the ratchet wheel. Place pawl knob in lower position. For double spring applications, repeat the same process for the other side.

IMPORTANT: DO NOT ADD OR REMOVE MORE THAN 1 SPRING TURN (1 SPRING TURN EQUALS 10 TEETH ON RATCHET WHEEL) FROM THE RECOMMENDED NUMBER OF TURNS SHOWN ON THE WINDING SPRING TURN CHART.

If the door still does not operate easily, lower the door into the closed position, unwind spring(s) completely, and recheck the following items:

1.) Is the door level?
2.) Are the TorqueMaster® spring tube and 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 if necessary.
5.) Rewind the spring(s).
6.) Make sure door is not rubbing on jambs.
TorqueMaster® Plus Reset Instructions

IMPORTANT: THE DRAWBAR OPERATOR FORCE SETTINGS MUST BE ADJUSTED ACCORDING TO THE MANUFACTURER’S INSTRUCTIONS. SOME LIGHTER WEIGHT DOORS ARE DESIGNED TO OPERATE WITH A SINGLE COUNTERBALANCE SPRING. IF THAT COUNTERBALANCE SPRING BREAKS AND THE DRAWBAR OPERATOR’S FORCE SETTINGS ARE NOT ADJUSTED ACCORDING TO THE MANUFACTURER’S SPECIFICATIONS, THE DRAWBAR OPERATOR MAY THEN HAVE THE CAPABILITY OF LIFTING THE DOOR TO THE OPEN POSITION, DESPITE THE BROKEN COUNTERBALANCE SPRING. THIS SCENARIO WILL CAUSE THE COUNTERBALANCE LIFT CABLES TO GO SLACK AND ENGAGE THE TORQUEMASTER® PLUS SAFETY SYSTEM. IF A PERSON IS UNAWARE OF THE SLACK COUNTERBALANCE LIFT CABLES AND THE ENGAGED TORQUEMASTER® PLUS SAFETY SYSTEM ACTIVATES THE MISADJUSTED DRAWBAR OPERATOR, DAMAGE WILL LIKELY OCCUR TO THE DOOR AND DRAWBAR OPERATOR. THE POTENTIAL ALSO EXISTS THAT THE PERSON ACTIVATING THE DRAWBAR OPERATOR UNDER THIS SCENARIO COULD BE SEVERELY INJURED.

WARNING
READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO RESET THE TORQUEMASTER® PLUS SYSTEM. IF IN QUESTION ABOUT ANY OF THE PROCEDURES, DO NOT PERFORM THE WORK. INSTEAD, HAVE A QUALIFIED DOOR SYSTEMS TECHNICIAN RESET THE SYSTEM.

WARNING
TO AVOID SEVERE OR FATAL INJURY, DO NOT STAND OR WALK UNDER A MOVING DOOR, OR PERMIT ANYONE TO STAND OR WALK UNDER AN ELECTRICALLY OPERATED DOOR.

This door is equipped with a TorqueMaster® plus system, a safety feature which prevents the door from rapidly descending in case of spring failure or forceful manual operation. If the system engages with the door in the open position, personal items that are left unattended in the garage or home are at risk to theft. To ensure the safekeeping of these items, close the garage door.

Typical signs of an engaged system.

Single spring system: Visually inspect the TorqueMaster® Plus right hand end bracket to confirm that the system has engaged (see illustration). If the system is engaged, then the door will not close. If the drawbar operator force settings were properly set during the initial installation, the door will not open. If the drawbar operator can physically overcome the weight of the door and lift it to the open position, then the counterbalance lift cables will be slack, if the system is engaged, DO NOT attempt to make the repairs. Instead, have a trained door system technician make the necessary repairs to counterbalance lift cables, spring assemblies and other hardware.

Double spring system: Visually inspect the TorqueMaster® Plus end brackets to confirm that the system has engaged (see illustration). Door makes a distinct “clicking” noise upon being opened. If the system is engaged, carefully follow the reset instructions below or refer to the reset tag (attached to right hand end bracket) to reset the TorqueMaster® Plus system.

Resetting an engaged TorqueMaster® Plus double spring system only:

1. First, locate and visually inspect the TorqueMaster® plus end bracket(s) to confirm that the system has engaged (see illustration).
2. With the door in the fully closed position, place locking pliers onto both vertical tracks just above the third track roller. Disengage the drawbar operator (if installed) by pulling or placing the emergency disconnect in the manually operated position.
3. With assistance, carefully remove locking pliers and raise the door to the fully open position.
4. Place locking pliers onto both vertical tracks just below the bottom track roller on both sides.
5. Now is a good time to remove vehicles or personal items from the garage to provide clear access to end brackets.
6. For single spring applications: Flip the ratchet pawl knob on the right hand end bracket to the upper position. For double spring applications: Flip the ratchet pawl knob on both end brackets to the upper position (see illustration).
7. Raise door 2”-3” and then lower door. Repeat this process until the system resets (see disengaged system illustrations).

IMPORTANT: BE PREPARED TO SUPPORT THE TOTAL WEIGHT OF THE DOOR.
8. Cautiously remove the locking pliers from the vertical tracks. With assistance lower door.

Checking springs for tension:

9. Starting on the right hand side, place a ratchet wrench, 5/8” socket and a 3” extension on the TorqueMaster® Plus winding shaft (see illustration). Ensure ratchet is set so that it will tighten counterclockwise on the right hand side, and clockwise on the left hand side. If tension is present, remove the ratchet and check the left hand side. If spring(s) have tension, the door will need to be balanced; refer to step, Balancing Door, to do this. If no spring tension is present, contact a qualified trained door system technician to replace the spring(s).

IMPORTANT: TO AVOID POSSIBLE INJURY, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN MAKE ADJUSTMENTS/REPAIRS TO COUNTERBALANCE LIFT CABLES, SPRING ASSEMBLIES AND OTHER HARDWARE.
**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.
Cleaning Your Garage Door

**IMPORTANT: DO NOT USE A PRESSURE WASHER ON YOUR GARAGE DOOR!**

While factory-applied finishes on garage doors are durable, it is desirable to clean them on a routine basis. Some discoloration of the finish may occur when a door has been exposed to dirt-laden atmosphere for a period of time. Slight chalking may also occur as a result of direct exposure to sunlight.

Cleaning the door will generally restore the appearance of the finish. To maintain an aesthetically pleasing finish of the garage door, a periodic washing of the garage door is recommended.

**The Following Cleaning Solution Is Recommended:** A mild detergent solution consisting of one cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water will aid in the removal of most dirt.

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

**NOTE:** Be sure to clean behind weatherstrips on both sides and top of door.

**CAUTION**

NEVER MIX CLEANSERS OR DETERGENTS WITH BLEACH.

**NOTE:** Do not use any window cleaning fluids, scouring compounds, gritty cloths or solvent-based cleaners of any kind.

To clean polycarbonate windows, see www.Wayne-Dalton.com.

**Maintaining Your Garage Door**

If the factory finish is beginning to fade, the door may require a field applied top clear coat. Depending on environment and usage, this may be necessary after 1 to 3 years of use. Refer to Instruction Insert “Field Painting and Finishing Fiberglass Or Steel Door Sections”.

**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 operator, refer to the owner’s manual to disconnect the opener before performing manual door operation below.

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

**WARNING**

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 DOWN ROPES 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. Perform 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, Mtt. 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.
Limited Warranty

Model 9800

Wayne Dalton, a division of Overhead Door Corporation (“Seller”) warrants to the original purchaser of the Model 9800 (“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:

- **Limited Lifetime Warranty** – Against the Product becoming inoperable due to rust-through of the steel skin backer, caused by cracking, splitting or other deterioration of the steel skin, due to structural failure caused by separation or degradation of the foam insulation, or due to failure of metal hardware components (excluding springs) or track.

- **Three (3) Years** – Against delamination of the fiberglass skin resulting from a defect in the fiberglass skin or peeling, cracking or fading of the original factory-applied coating. Repainting or refinishing of the Product, other than directed top clear coat maintenance, will void this warranty. Top clear coat should be reapplied if it begins to appear dull or chalky; this is considered maintenance and not a defect. Refer to your care and maintenance instructions (Field Painting and Finishing Fiberglass or Steel Door Sections) for directions on maintaining your top clear coat.

- **One (1) year** – All other components

*Limited Lifetime means for so long as the original purchaser owns the home in which the product was originally installed. 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, normal wear and tear, acts of God, or any other cause beyond the reasonable control of Seller or as a result of having been exposed to toxic or abrasive environments, including blowing sand, salt water, salt spray and toxic chemicals and fumes.

**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.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Seller has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of use, cost of any substitute product, or other similar indirect financial loss. 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.

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.