Models 8300 / 8500

Torsion

Residential and Light Commercial Standard Lift

Installation Instructions And Owner’s Manual

Definition of Light Commercial:
1. Door Heights less than or equal to 8’0” (< = 8’0”) are considered Residential Applications.
2. Door Heights greater than 8’0” (> 8’0”) are considered Light Commercial Applications.

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.

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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
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.

**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 fall 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 any such work performed 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/ripping 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 systems 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 and/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. Track systems are not intended or designed to support extra weight.
18. Do not permanently attach weatherstrips to the header and jambs at this time.

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

Drill a 3/16" pilot hole in the mounting surface to avoid splitting the lumber. Do not allow children to play with the Door Opener.

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

**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.

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

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

**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 or one that has a broken header and jambs or one that has a broken header. It is recommended that 2" x 6" lumber be used. The jambs should 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) 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. Start drilling at either side of the jambs, fit the weatherstrip up tight against the temporarily attached

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**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 red-head, the replacement fastener must be red-head also. Contact Wayne Dalton for fastener strength values if needed.
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.

**NOTE:** For door heights from 10'1" to 14'0", refer to your operator manufacture installation instructions for appropriate depth into room.

**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&quot; to 7'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>102-1/2&quot; (2604 mm)</td>
<td>125&quot; (3175 mm)</td>
</tr>
<tr>
<td>7'1&quot; to 8'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>114-1/2&quot; (2909 mm)</td>
<td>137&quot; (3480 mm)</td>
</tr>
<tr>
<td>8'1&quot; to 9'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>127&quot; (3226 mm)</td>
<td>168&quot; (4267 mm)</td>
</tr>
<tr>
<td>9'1&quot; to 10'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>139&quot; (3531 mm)</td>
<td>168&quot; (4267 mm)</td>
</tr>
<tr>
<td>10'1&quot; to 12'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>163-1/2&quot; (4153 mm)</td>
<td>See &quot;NOTE&quot;</td>
</tr>
<tr>
<td>12'1&quot; to 14'0&quot;</td>
<td>12&quot;, 15&quot; Radius</td>
<td>187-1/2&quot; (4763 mm)</td>
<td>See &quot;NOTE&quot;</td>
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**HEADROOM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Space Needed</th>
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<tbody>
<tr>
<td>12&quot; Radius</td>
<td>12-1/2&quot; (318 mm)</td>
</tr>
<tr>
<td>15&quot; Radius</td>
<td>14-1/2&quot; (368 mm)</td>
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</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.
<table>
<thead>
<tr>
<th>Door Height</th>
<th>Section Quantity 3 and 4</th>
<th>Type Of Sections</th>
<th>Bottom</th>
<th>Lock</th>
<th>Intermediate(s) Section</th>
<th>Top</th>
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<tbody>
<tr>
<td>6'0&quot;</td>
<td>#6 x 1&quot; Pan head screws</td>
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<td>18&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6'0&quot;</td>
<td>#6 x 1-1/2&quot; Hex head lag</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6'3&quot;</td>
<td>#6 x 1&quot; Pan head screws</td>
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<td></td>
<td></td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>7'9&quot;</td>
<td>#6 x 1&quot; Pan head screws</td>
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<tr>
<td>7'9&quot;</td>
<td>#6 x 1-1/2&quot; Hex head lag</td>
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<tr>
<td>8'0&quot;</td>
<td>#6 x 1&quot; Pan head screws</td>
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<tr>
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<th>Door Height</th>
<th>Section Quantity 5</th>
<th>Type Of Sections</th>
<th>Bottom</th>
<th>Lock</th>
<th>Intermediate Sections</th>
<th>Top</th>
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<tbody>
<tr>
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<td>No Available</td>
<td>21&quot;</td>
<td></td>
<td>18&quot;</td>
<td></td>
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<tr>
<td>7'9&quot;</td>
<td>5/16&quot; x 2-1/2&quot; Hex head lag screws (RED HEAD)</td>
<td>No Available</td>
<td>21&quot;</td>
<td></td>
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<tr>
<td>8'0&quot;</td>
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<td>8'3&quot;</td>
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<th>Lock</th>
<th>Intermediate Sections</th>
<th>Top</th>
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<tbody>
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<tr>
<td>9'9&quot;</td>
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<td>18&quot;</td>
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<th>Lock</th>
<th>Intermediate Sections</th>
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<td>11'0&quot;</td>
<td>5/16&quot; x 1-1/4&quot; Hex head lag screws (RED HEAD)</td>
<td>No Available</td>
<td>21&quot;</td>
<td></td>
<td>18&quot;</td>
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<td>18&quot;</td>
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<td>12'0&quot;</td>
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<td>No Available</td>
<td>21&quot;</td>
<td></td>
<td>18&quot;</td>
<td></td>
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</tbody>
</table>
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.

Unless your door is six sections in height, you will not receive an Intermediate III section. The BOTTOM SECTION can be identified by the factory attached bottom bracket warning labels on each end stile.

The INTERMEDIATE I SECTION may have a warning label attached to either right or left hand end stile of the section. This section is always the 3rd section from the bottom of the door.

<table>
<thead>
<tr>
<th>Section Quantity 7</th>
<th>Type Of Sections</th>
<th>Bottom</th>
<th>Lock</th>
<th>Intermediate Sections</th>
<th>Top</th>
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<tbody>
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<td></td>
<td></td>
<td></td>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td>10'6&quot;</td>
<td></td>
<td></td>
<td></td>
<td>18'</td>
<td>18'</td>
</tr>
<tr>
<td>10'9&quot;</td>
<td>21&quot;</td>
<td></td>
<td></td>
<td>18'</td>
<td>21&quot;</td>
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<tr>
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<td>II</td>
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<td>21&quot;</td>
<td></td>
<td></td>
<td>18&quot;</td>
<td>21&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 models may have unique variations.

A. FLAG ANGLES (AS REQUIRED):
   A1. Fully Adjustable (F.A.) Flag Angles

B. JAMB BRACKETS (AS REQUIRED):
   B1. 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.), Industry Standard
   D2. Double Graduated End Hinges (D.E.H.), Industry Standard
   D3. Half Center Hinge(s) (if included)

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

F. TOP FIXTURES (AS REQUIRED):
   F1. Top Fixture Bases - (L-Shaped)
   F2. Top Fixture Slides - (L-Shaped)
   F3. Top Fixture Assemblies

G. STRUT(S) (AS REQUIRED):
   G1. 2" Strut (U-shaped) / 3" Strut (U-shaped)

H. DRAWBAR OPERATOR BRACKET (FOR TROLLEY OPERATED DOORS):
   H1. Top Half Drawbar Operator Bracket
   H2. Bottom Half Drawbar Operator Bracket
   H3. Drawbar Operator Bracket (Supplied By Others)

I. TRACKS (AS REQUIRED):
   I1. Left Hand and Right Hand Horizontal Track Assemblies
   I2. Left Hand and Right Hand Vertical Tracks
   I3. Left Hand and Right Hand Riveted Vertical Track Assemblies
   I4. Left Hand and Right Hand Angle Mount Vertical Track Assemblies

J. TORSION SPRING ASSEMBLY (AS REQUIRED):
   J1. Left Hand and Right Hand Torsion Springs (As Required)
   J2. Counterbalance Lift Cables
   J3. Left Hand and Right Hand End Bearing Brackets (As Required)
   J4. Left Hand and Right Hand Cable Drums
   J5. Center Bushing / Center Bearing (As Required)
   J6. Center Bracket(s) (As Required)
   J7. Torsion Shaft / Torsion Keyed Shaft / Torsion Keyed Shafts (As Required)
   J8. Keys (As Required)
   J9. Center Coupler Assembly (As Required)

K. REAR BACK HANGS:
   K1. Left Hand And Right Hand Rear Back Hang Assemblies

L. BOTTOM CORNER BRACKETS (AS REQUIRED):
   L1. Left Hand and Right Hand Bottom Corner Brackets

M. BOTTOM WEATHER SEAL:
   M1. Bottom Weather Seal (Door Width)

N. TRACK ROLLER CARRIER’S (AS REQUIRED):
   N1. Track Roller Carrier’s
**DOOR INSTALLATION INSTRUCTIONS**

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.

**NOTE:** Reference TDS 160 for general garage door terminology at www.dasma.com.

**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.

### 1. Attaching Flag Angles and Jamb Brackets To Vertical Tracks

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

**FOR DOORS WITH FULLY ADJUSTABLE TRACK:** 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.

### 2. Bottom Weather Seal

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

**NOTE:** Verify that the bottom weather seal is aligned with bottom section. If needed, trim the bottom weather seal even with bottom section length.

Position the bottom weather seal up against the bottom of the bottom section with the long lip on the inside surface of the bottom section. From inside the door, attach the bottom weather seal to the bottom section with 1/4" - 20 x 7/8" self drilling screws, placing one every 18" in from each end of the bottom section and one every 18" (maximum) in between, as shown.

### 3. Attaching Bottom Corner Brackets

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

Depending on which bottom corner brackets you have (reference illustrations below), slip the cable 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 flat washer and a cotter pin. Repeat for other bottom corner bracket.

**WARNING**

ENSURE TIGHT FIT OF CABLE LOOP OVER 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.

Starting on the left hand side, attach the left hand bottom corner bracket to the left corner of the bottom section, making sure it is seated to the edges of the end cap, using (3) 1/4" - 20 x 11/16" RED HEAD self drilling screws, 1/4" - 20 x 11/16" self drilling screws. Insert a short stem track roller with roller spacer (if applicable) into the bottom corner bracket. Repeat for other 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.

**NOTE:** Check to ensure cable loop fits tightly over the milford pins.

**NOTE:** Verify bottom weather seal (bottom seal) is aligned with door section. If there is more than 1/2" excess bottom weather seal on either side, trim bottom weather seal even with door section.
Attaching Track Roller Carrier’s

**NOTE:** If you don’t have track roller carriers, then skip this step. Refer to Package Contents / Breakdown of Parts, to determine if a track roller carrier was supplied with your door.

Starting on left hand side of the bottom section, attach the track roller carrier with the stamp “STD” facing UP to the bottom corner bracket by aligning the four holes of the track roller carrier with the four holes in the bottom corner bracket. Secure the track roller carrier to the bottom corner bracket using 1/4" - 20 x 7/8" self drilling screws, as shown. Repeat for the other track roller carrier and repeat the same process for the right hand side.

Insert a long stem track roller and spacer into the inner holes of the track roller carrier, as shown. Repeat the same process for the right hand side.

**NOTE:** The track roller carrier’s inner holes are used on doors with 2" track applications with a short stem track roller; the outer holes are used on doors with 3" track applications with a long stem track roller.

Attaching Top Fixtures To Top Section

**NOTE:** Depending on your door, you may have Top Fixture Bases and Top Fixture Slides or you may have Top Fixture Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Top Fixtures you have.

**IF YOU HAVE TOP FIXTURE ASSEMBLIES:** Starting on the left hand side, align the lip of the top fixture base onto the top corner of the top section and even with the edge of the end cap. Fasten to section through end cap using (4) 1/4" - 20 x 11/16" self drilling screws. Loosely secure the top fixture slide and the “L” reinforcement bracket to the top fixture base using (4) 1/4" - 20 x 11/16" self drilling screws. Insert the top fixture slide into the top fixture base. Repeat for other side.

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

**NOTE:** Ensure the top fixture slide is able to slide along the top fixture base. If needed, loosen the 5/16" - 18 hex nut.

**IF YOU HAVE 2 TOP FIXTURE BASES AND 2 TOP FIXTURE SLIDES:** Starting on the left hand side of the top section, align the lip of the top fixture base onto the top corner of the top section and even with the edge of the end cap. Fasten to section through end cap using (4) 1/4" - 20 x 11/16" self drilling screws. Loosely secure the top fixture slide and the “L” reinforcement bracket to the top fixture base using (1) 5/16" - 18 x 3/4" carriage bolt and (1) 5/16" - 18 hex nut. Insert short stem track roller into top fixture slide. Repeat for other side.

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

**NOTE:** Ensure the top fixture slide is able to slide along the top fixture base. If needed, loosen the 5/16" - 18 hex nut.

**IF YOU HAVE 4 TOP FIXTURE BASES AND 4 TOP FIXTURE SLIDES:** Starting on the left hand side of the top section, align the lip of the top fixture base onto the top corner of the top section and even with the edge of the end cap. Fasten to section through end cap using (4) 1/4" - 20 x 11/16" self drilling screws. Loosely secure the top fixture slide and the “L” reinforcement bracket to the top fixture base using (1) 5/16" - 18 x 3/4" carriage bolt and (1) 5/16" - 18 hex nut. Insert long stem track roller into top fixture slide. Repeat for other side.

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

**NOTE:** Ensure the top fixture slides are able to slide along the top fixture bases. If needed, loosen the 5/16" - 18 hex nuts.

Attaching Hinges and 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 (fourth) section, intermediate (fifth) section, intermediate (sixth) section, intermediate (seventh) section, intermediate (eighth) section, top section. Measure your sections to make sure they are the correct height as indicated on the chart.

**NOTE:** The graduated end hinges can be identified by the number stamped on the lower hinge leaf. The #1 graduated end hinges serves as end hinges on the bottom section. The #1 graduated end hinges also serves as center hinges on all sections, except for the top section.

**NOTE:** The #2 graduated end hinges serves as end hinges on the Lock section.

**NOTE:** The #3 graduated end hinges serves as end hinges on the Intermediate I section.

**NOTE:** The #4 graduated end hinges serves as end hinges on the Intermediate II section.
NOTE: The #5 graduated end hinges serves as end hinges on the Intermediate III section.
NOTE: The #6 graduated end hinges serves as end hinges on the Intermediate IV section.
NOTE: The #7 graduated end hinges serves as end hinges on the Intermediate V section.
NOTE: The #8 graduated end hinges serves as end hinges on the Intermediate VI section.
NOTE: Refer to the strutting schedules below to determine the placement of strut(s) on your door. Be sure to use the proper schedules for the type of door model and the size of your door.

IMPORTANT: WHEN REFERRING TO THE STRUTTING SCHEDULES, DETERMINE HOW MANY STRUTS YOUR DOOR NEEDS AND ON WHAT SECTIONS THEY ARE NEEDED TO BE INSTALLED. ALSO BE SURE TO USE THE CORRECT STRUTTING SCHEDULE FOR ALUMINUM DOORS OR STEEL DOORS DEPENDING ON THE MATERIAL YOUR DOOR IS MADE OF. ALSO USE THE CORRECT STRUTTING SCHEDULE FOR THE PROPER COLOR OF YOUR DOOR.

NOTE: Sections not noted in the strutting schedule, do not require a strut. All strut(s) are placed at the top of the section(s).

NOTE: If your door was ordered with the All Windows option, two struts are temporarily faced at the top of the section(s).

NOTE: If you paint your door, follow the Strutting Schedule For Brown, Black and Woodgrain Colored Doors.

---

### Strutting Schedule Key:

<table>
<thead>
<tr>
<th>TS = Top Section</th>
<th>IW = Intermediate Section With Windows</th>
<th>LS = Lock Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>I6 = Intermediate Section #6</td>
<td>BS = Bottom Section</td>
<td>IS = Intermediate Section #5</td>
</tr>
<tr>
<td>I4 = Intermediate Section #4</td>
<td>ES = Every Section gets a strut.</td>
<td>I2 = Intermediate Section #2</td>
</tr>
<tr>
<td>I3 = Intermediate Section #3</td>
<td>2S = 2&quot; Strut</td>
<td>3S = 3&quot; Strut</td>
</tr>
</tbody>
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### Strutting Schedule For Model 8300 Steel (White, Almond and Taupe Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-9</td>
<td>Solid</td>
<td>TS</td>
<td>3S, TS, 2S, INT3, 2S, INT1, 2S BS</td>
</tr>
<tr>
<td>= 8' 3&quot;</td>
<td>Solid</td>
<td>TS</td>
<td>3S, TS, 2S, INT3, 2S, INT1, 2S BS</td>
</tr>
<tr>
<td>= 8' 3&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>3S, TS, 2S, INT3, 2S, INT1, 2S BS</td>
</tr>
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<td>4</td>
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<td>TS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>5</td>
<td>Solid</td>
<td>TS</td>
</tr>
<tr>
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<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>6</td>
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<td>TS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 12' 0&quot; - 14' 0&quot;</td>
<td>7-9</td>
<td>Solid</td>
<td>TS</td>
</tr>
<tr>
<td>= 12' 0&quot; - 14' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
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</tbody>
</table>

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### Strutting Schedule For Model 8300 Steel (Brown, Black and Woodgrain Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
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</thead>
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<tr>
<td>= 8' 3&quot;</td>
<td>Solid</td>
<td>TS</td>
<td>TS, LS, BS</td>
</tr>
<tr>
<td>= 8' 3&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>5</td>
<td>Solid</td>
<td>TS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>6</td>
<td>Solid</td>
<td>TS</td>
</tr>
<tr>
<td>= 8' 4&quot; - 12' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
</tr>
<tr>
<td>= 12' 0&quot; - 14' 0&quot;</td>
<td>7-9</td>
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<td>TS</td>
</tr>
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<td>= 12' 0&quot; - 14' 0&quot;</td>
<td>Intermediate (Windows)</td>
<td>TS, IW</td>
<td>TS, IW, BS</td>
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</tbody>
</table>
## Strutting Schedule For Model 8500 Steel (White, Almond and Taupe Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
<th>Door Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>9' 1&quot; - 10' 0&quot;</td>
<td>10' 1&quot; - 14' 0&quot;</td>
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### < = 8' 0"

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<thead>
<tr>
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<th>TS</th>
<th>TS, LS, BS</th>
<th>ES</th>
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</thead>
<tbody>
<tr>
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<td>Top (Windows)</td>
<td>TS</td>
<td>3S TS, 2S LS, 2S BS</td>
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<tr>
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</table>

### 8' 1" - 12' 0"

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<th>Solid</th>
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<th>TS</th>
<th>TS, IW, INT1, BS</th>
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</thead>
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<td></td>
<td>Top (Windows)</td>
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<td>3S TS, 2S INT1, 2S BS</td>
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<td>Intermediate (Windows)</td>
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### 12' 1" - 14' 0"

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<th>TS</th>
<th>TS, INT2, INT1, BS</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Top (Windows)</td>
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<td>3S TS, 2S INT4, 2S INT3, 2S INT1, 2S BS</td>
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<tr>
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<td>Intermediate (Windows)</td>
<td>N/A</td>
<td>TS, IW, INT1, BS</td>
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<td></td>
</tr>
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</table>

## Strutting Schedule For Model 8500 Steel (Brown, Black and Woodgrain Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
<th>Door Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>&lt; = 6' 0&quot; - 10' 0&quot;</td>
<td>10' 1&quot; - 18' 0&quot;</td>
</tr>
</tbody>
</table>

### < = 8' 0"

<table>
<thead>
<tr>
<th>4</th>
<th>Solid</th>
<th>TS</th>
<th>TS, LS, BS</th>
<th>ES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Top (Windows)</td>
<td>TS</td>
<td>TS, LS, BS</td>
<td>ES</td>
</tr>
<tr>
<td></td>
<td>Intermediate (Windows)</td>
<td>TS</td>
<td>TS, IW, BS</td>
<td>ES</td>
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### > 8' 0"

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<th>TS, INT1, BS</th>
<th>ES</th>
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## Strutting Schedule For Model 8500 Steel (Brown, Black and Woodgrain Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
<th>Door Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>6' 0&quot; - 9' 0&quot;</td>
<td>10' 0&quot; - 14' 0&quot;</td>
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### < = 8' 0"

<table>
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<tr>
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### > 8' 0"

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<tr>
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<td>TS, IW, INT1, BS</td>
<td>TS, IW, INT1, BS</td>
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## Strutting Schedule For Model 8300 Aluminum (White, Almond and Taupe Colored Doors)

<table>
<thead>
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<th>Section Quantity</th>
<th>Door Configuration</th>
<th>Door Widths</th>
<th>Door Widths</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td>6' 0&quot; - 9' 0&quot;</td>
<td>10' 0&quot; - 14' 0&quot;</td>
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### < = 8' 0"

<table>
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<th>TS, INT1, BS</th>
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<td>TS, INT1, BS</td>
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### > 8' 0"

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<tr>
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<th>TS, INT2, INT1, BS</th>
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</thead>
<tbody>
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## Strutting Schedule For Model 8300 Aluminum (Brown, Black and Woodgrain Colored Doors)

<table>
<thead>
<tr>
<th>Door Heights</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>6' 0&quot; - 10' 0&quot;</td>
<td>12' 0&quot; - 18' 0&quot;</td>
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### < = 8' 0"

<table>
<thead>
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<th>TS, LS, BS</th>
<th>ES</th>
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### > 8' 0"

<table>
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<tr>
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<th>Solid</th>
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<th>TS, IW, BS</th>
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</table>
## Strutting Schedule For Model 8500 Aluminum (White, Almond and Taupe Colored Doors)

<table>
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<tr>
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<td>TS, LS</td>
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</tr>
<tr>
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<td>TS, IW, BS</td>
<td>TS, IW, INT1, BS</td>
</tr>
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<td>&gt; 8' 0&quot;</td>
<td>5 or 6 Solid</td>
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<td>TS, LS, BS</td>
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<tr>
<td></td>
<td></td>
<td>TS, INT1, LS, BS</td>
<td>TS, INT3, INT1, BS</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>TS, IW, INT1, BS</td>
</tr>
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### INSTALLATION ON TOP SECTION:
Using sawhorses, lay the top section on a flat smooth surface. Locate and center the strut onto the section surface and up against the top edge of the top section. Center the strut side to side on the section. Secure strut to top section using 1/4" - 20 x 7/8" self drilling screws at each end and at each dimple location(s), as shown.

## Strutting Schedule For Model 8500 Aluminum (Brown, Black and Woodgrain Colored Doors)

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Using sawhorses, lay the top section on a flat smooth surface. Locate and center the strut onto the section surface and up against the top edge of the top section. Center the strut side to side on the section. Secure strut to top section using 1/4" - 20 x 7/8" self drilling screws at each end and at each dimple location(s), as shown.
INSTALLATION ON ALL SECTION WITH WINDOWS (EXCEPT TOP SECTION): Using sawhorses, lay the section on a flat smooth surface. Starting on the left hand side of the section, align the lower leafs of the appropriate graduated end hinges over the holes at the top of the end caps located at the top of the section. Next, align the lower hinge leafs of the #1 center hinges / half center hinges with the dimples at the center location(s) located at the top of the section. Locate and center the strut onto the section surface and on top of the hinges. Center the strut side to side on the section. Secure strut and hinges to section using strut clips and 1/4" - 20 x 7/8" self drilling screws at each end hinges and at each dimple location(s), as shown.

NOTE: If your Intermediate Section has windows in it and a strut needs to be installed on that section, strut clips will need to be used to attach it to the section.

IMPORTANT: ONCE THE 1/4" - 20 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.

Insert the appropriate stem track roller into the hinge tube of the graduated end hinges. Repeat the same process for all remaining sections.

NOTE: Doors with a Keyed lock do not require this lift handle. Locate the inside center stile or the desired lift handle location on the lock (2nd) section of the door. Position the lower hole in the lift handle 4" from the bottom of the lock (2nd) section.

IMPORTANT: THE DISTANCE BETWEEN THE STEP PLATE AND THE MIDDLE OF THE LIFT HANDLE MUST BE 20" MINIMUM TO 30" MAXIMUM. IF NECESSARY REPOSITION THE UPPER LIFT HANDLE TO STAY WITHIN THE REQUIRED DIMENSION.

Assemble the outside and inside lift handles to the lock section using (2) spacers, (2) 1/4" - 20 x 2-1/2" carriage bolts and (2) 1/4" - 20 hex nuts.
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 jambs brackets and flag angle to the jamb using 5/16” x 1-5/8” lag screws. Tighten lag screws, securing the bottom jambs bracket to jamb, maintain 3/8” to 5/8” spacing 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 jambs brackets and flag angle to the jamb using 5/16” x 1-5/8” lag screws. Tighten lag screws, securing the bottom jambs 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 ANGLE MOUNT VERTICAL TRACK ASSEMBLY: Loosely fasten flag angle to the jamb using 5/16” x 1-5/8” lag screws. Tighten lag screws, securing the bottom slot in the wall angle, 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: Refer to door section identification, located in the pre-installation section of this manual. This manual provides what size sections you need to use as your lock (second) section, intermediate (third) section, intermediate (fourth) section, intermediate (fifth) section, intermediate (sixth) section, and intermediate (seventh) section. Measure your sections to make sure they are the correct height as indicated on the chart.

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

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 center hinge(s) first; then end hinges last using 1/4” - 20 x 11/16” self drilling 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” - 20 X 11/16” SELF DRILLING 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.
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" (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.

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 as shown. Repeat for other side.

Attaching Drawbar Operator Bracket

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, THAN 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.

NOTE: Refer to illustrations to determine which drawbar operator bracket were supplied with your door. Follow the corresponding step below:

1. Place the bottom half inside the top half 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 drawbar operator bracket bottom half and the top half together using (4) 5/16" - 18 x 1/2" carriage bolts and (4) 5/16" - 18 flange hex nuts.

2. 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.

3. 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.

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

NOTE: Strut(s) not shown for clarity.

FOR STANDARD INSTALLATION: Slide the top halve of the drawbar operator bracket assembly under the strut, keeping the drawbar operator bracket assembly aligned with the center line. Remove the strut’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 halve 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.
FOR DOOR SECTIONS WITH ALL WINDOWS INSTALLATION: Slide the top half of the drawbar operator bracket assembly under the strut. Slide the bottom half of the drawbar operator bracket assembly under the strut and over the center hinge, keeping the drawbar operator bracket assembly aligned with the center line. Attach the drawbar operator bracket assembly to the top section using 1/4" - 20 x 7/8" self drilling screws and strut clips.

NOTE: If needed, temporarily remove the strut and the upper hinge leaf of the center hinge screws to properly position the drawbar operator bracket assembly onto the top section.

Locate the center of the top section. Position the drawbar operator bracket under the strut (if applicable) or align the drawbar operator bracket top edge with the top edge of the top section, as shown. Attach the drawbar operator bracket using (3) 1/4" - 20 x 7/8" self-drilling screws (as shown).

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.

FOR OTHER FLAG ANGLES: To install horizontal track, place the curved end over the top track roller of the top section. Align the bottom of the horizontal track with the top of the vertical track. Tighten the horizontal track to the flag angle with (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts.

IF YOU HAVE ANGLE MOUNT: To install horizontal track, place the curved end over the top track roller of the top section. Align the bottom of the horizontal track with the top of the vertical track. Tighten the horizontal track to the angle mount with (2) 1/4" - 20 x 9/16" track bolts and (2) 1/4" - 20 flange hex nuts.

Next level the horizontal track assembly and bolt the horizontal track angle to the first encountered slot in the flag angle / angle mount using (1) 3/8" - 16 x 3/4" truss head bolt and (1) 3/8" - 16 hex nut. Repeat for other side. Remove nail that was temporarily holding the top section in position.

IMPORTANT: FAILURE TO REMOVE NAIL BEFORE ATTEMPTING TO RAISE DOOR COULD CAUSE PERMANENT DAMAGE TO TOP SECTION.

ADJUSTING TOP FIXTURES

NOTE: Depending on your door, you may have Top Fixture Bases and Top Fixture Slides or you may have Top Fixture Assemblies. Refer to Package Contents / Breakdown of Parts, to determine which Top Fixtures you have.

With horizontal tracks installed, you can now adjust the top fixtures. Vertically align the top
Attaching End Bearing Brackets

**NOTE:** Refer to Package Contents / Breakdown of Parts, to determine which End Bearing Brackets you have.

**NOTE:** Prior to fastening end bearing brackets into the door jamb, pilot drill using a 3/16" drill bit.

**IMPORTANT:** RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.

**NOTE:** Depending on your door’s configuration you may have to break the end bearing brackets apart.

**NOTE:** End bearing brackets are right and left hand.

Attach the left hand end bearing bracket through either the end bearing bracket’s upper or lower slots to the left hand horizontal track angle using (2) 3/8" - 16 x 3/4" truss head bolts and (2) 3/8" - 16 nuts.

**IMPORTANT:** THE END BEARING BRACKET’S LOWER SLOTS ARE USED ON DOORS WITH 12" RADIUS TRACK; THE UPPER SLOTS ARE USED ON DOORS WITH 15" RADIUS TRACK.

Secure the top of the end bearing bracket to the jamb using 5/16" x 1-5/8" lag screw(s). Repeat the same process for right hand side.

**NOTE:** Refer to Package Contents / Breakdown of Parts, to determine which Center Bracket(s) came with your door.

**NOTE:** Drill 3/16" pilot holes into header for the lag screws.

**NOTE:** Refer to Package Contents / Breakdown of Parts, to determine if your door came with a coupler assembly. If your door came with a coupler assembly, the mounting surface needs to be a minimum of 12" wide. The two center bearing brackets will need to be spaced 12" to 14" apart at the center of the door, as shown.

**NOTE:** If your door came with 4 springs, each of the outer springs mounting surface will need to be a minimum of 3" wide.

**NOTE:** If needed, measure the diameter of your springs. If you have a one piece shaft with 3-3/4" diameter springs, they do not share center brackets and do not have a coupler assembly.

First, locate the center of the door. Mark a vertical pencil line on the mounting surface above the door, at the center. Measure from the center of the bearing, in one of the end bearing brackets, downwards, to the top the door. Using that measurement, measure that distance upwards from the top of the door to the mounting surface and mark a horizontal pencil line which intersects the vertical pencil line.

**NOTE:** On some single spring doors, the spring can be longer than half the opening width. If your spring is longer, then the center bracket must be mounted off center for the spring to fit properly. Measure spring length adding room for spring growth during winding, to determine appropriate center bracket location.
Torsion Spring Assembly

**NOTE:** Refer to the Package Contents and or Breakdown of Parts to determine if your door came with a coupler assembly.

**IMPORTANT:** **RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE BUILDING LOOKING OUT.**

**IMPORTANT:** IDENTIFY THE TORSION SPRINGS PROVIDED AS EITHER RIGHT WOUND (RED WINDING CONE), WHICH GOES ON THE LEFT HAND SIDE OR LEFT WOUND (BLACK WINDING CONE), WHICH GOES ON THE RIGHT HAND SIDE. **IMPORTANT:** **ON SINGLE SPRING APPLICATIONS, ONLY A LEFT WOUND (BLACK WINDING CONE), IS REQUIRED.**

**NOTE:** The set screws used on all winding cones and cable drums are colored red. DO NOT identify right and left hand by the set screw color.

**IF YOU DON'T HAVE A COUPLER ASSEMBLY:** Facing the inside of the door, lay the torsion shaft / torsion keyed shaft on the floor. Lay the torsion spring with the black winding cone and the black cable drum at the right end of the torsion shaft / torsion keyed shaft. Lay the torsion spring with the red winding cone and the red cable drum at the left end of the torsion shaft / torsion keyed shaft. Slide the center bracket bearing onto the torsion shaft / torsion keyed shaft followed by the torsion springs and cable drums.

**IMPORTANT:** **THE CENTER BRACKET BEARING, TORSION SPRINGS, AND CABLE DRUMS MUST BE POSITIONED, AS SHOWN.**

**IF YOUR DOOR DID COME WITH A CENTER COUPLER ASSEMBLY OR 3-3/4" ID TORSION SPRINGS:** Mark a vertical pencil line on the mounting surface above the door, at the center. Split the difference up and position the (2) center bearing brackets apart from each other. Mark two vertical pencil lines, one for each center bearing bracket onto the mounting surface above the door.

**NOTE:** If your door came with a center coupler assembly or it utilizes 3-3/4" springs, the springs will not share a center bracket.

**NOTE:** If your door has (4) springs, split the distance between the center of the door and the end bracket on each side to locate the intermediate center brackets.

Attach each of the center bracket(s) to the mounting surface, using 5/16" RED HEAD lag screws, as shown.

**IMPORTANT:** USE A 5/16" X 2-1/2" RED HEAD LAG SCREW INSTEAD OF THE 5/16" X 1-5/8" RED HEAD LAG SCREW IF MOUNTING SURFACE IS COVERED BY DRYWALL. THE LAG SCREW MUST BE ATTACHED THROUGH THE BOTTOM HOLE OF THE CENTER BRACKET(S). IF MOUNTING SURFACE IS A 2" X 6" BOARD INSTALLED ON TOP OF MASONRY, DRILL A CLEARANCE HOLE IN MASONRY FOR THE 5/16" X 2-1/2" RED HEAD LAG SCREW.

**NOTE:** **IF YOU DON'T HAVE A COUPLER ASSEMBLY:** Disassemble the coupler assembly by removing the (3) 3/8" - 16 x 1-1/2" hex head screws, (6) 3/8" washers, (3) 3/8" lock washers and the (3) 3/8" - 16 hex nuts from the coupler halves. Loosen the set screws. Set the components aside.

Facing the inside of the door, lay the (2) torsion keyed shafts on the floor. One torsion keyed shaft on the left hand side and the other torsion keyed shaft on the right hand side. Starting on the left hand side, lay one of the coupler halves, the center bracket bearing, torsion spring with the red winding cone and the red cable drum at the left end of the torsion keyed shaft. Next on the right hand side, lay the other coupler half, center bracket bearing, the torsion spring with the black winding cone, and the black cable drum at the right end of the torsion keyed shaft. Slide the coupler halves, center bracket bearings onto the torsion keyed shaft followed by the torsion springs and the cable drums, as shown.

**IMPORTANT:** **THE COUPLER HALVES, CENTER BRACKET BEARINGS, TORSION SPRINGS, CABLE DRUMS MUST BE POSITIONED, AS SHOWN.**

Slide the flat edge of the couple half flush with the side edge of the torsion keyed shaft. Insert (1) key into the slot of both the coupler half and the slot in the torsion keyed shaft. Tighten the (2) set screws and the locking nut to secure the coupler half to the torsion keyed shaft, as shown.

**NOTE:** Tighten the set screws to 14-15 ft. lbs. of torque (once set screws contact the shaft, tighten set screws one full turn). Repeat the same process for the other coupler half.
NOTE: The spring warning tag(s) supplied must be securely attached to the stationary spring cones(s) in plain view. Should a replacement spring warning tag be required, contact Wayne Dalton for free replacements.

NOTE: Refer to Package Contents / Breakdown of Parts, to determine if your door came with a coupler assembly.

IMPORTANT: The spring warning tag(s) supplied must be securely attached to the stationary spring cones(s) in plain view. Should a replacement spring warning tag be required, contact Wayne Dalton for free replacements.

NOTE: Measure the diameter of your springs. If your spring diameter is 3-3/4", the springs do not share center brackets. If your spring diameter is either 2" or 2-5/8", then two springs will share the same center bracket, unless a coupler assembly is provided.

IF YOU DON'T HAVE A COUPLER ASSEMBLY: Slide center bracket bearing into the spring. Align the stationary spring cone(s) with the holes in the center bracket. Secure the torsion spring(s) to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts.

IMPORTANT: Never use more than one bearing when attaching two springs to one center bracket.

IF YOU HAVE A COUPLER ASSEMBLY: Slide center bracket bearing into the spring. Align the stationary spring cone(s) with the holes in the center bracket. Secure the torsion spring to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts. Repeat the same process for the other center bearing bracket.

At the middle of the two center bearing brackets, reassemble the coupler assembly by loosely fastening the coupler halves together using the (3) 3/8" - 16 x 1-1/2" hex head screws, (6) 3/8" washers, (3) 3/8" lock washers and the (3) 3/8" - 16 hex nuts, previously removed.

NOTE: Ensure both torsion keyed shafts have equal amounts of the shafts extending from each end bearing bracket.

IMPORTANT: Verify that there are no obstructions in the travel path of the door sections or counterbalance lift cables.

NOTE: Always assemble the left hand cable and cable drum first to help maintain equal cable tension on both sides of the door.

Hook the counterbalance lift cable into the left hand cable drum. Slide the left hand cable drum up against the left hand end bearing bracket. Counterbalance lift cable should terminate at the 3 o'clock position. Tighten the (2) set screws in the drum to 14-15 ft. lbs. of
torque (once set screws contact the shaft, tighten screws one full turn).

**NOTE:** If you have torsion keyed shaft(s), insert (1) key into the slot of both the cable drum and the slot in the torsion keyed shaft, as shown.

Rotate the left hand drum and torsion shaft until counterbalance lift cable is taut. Now attach locking pliers to the torsion shaft and brace locking pliers up against jamb to keep counterbalance lift cable taut. Repeat for right hand side.

**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.

**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.

Once the counterbalance cables are set and if applicable tighten the coupler assembly together by tightening the (3) 3/8" - 16 nylon hex nuts to secure the coupler halves together.

**Draw a chalk line horizontally along the center of the torsion spring coil(s).** As the torsion spring is wound, the chalk line will create a spiral. This spiral can be used to count and determine the number of turns that are applied on the torsion spring.

**NOTE:** If your springs have stenciling, then skip this step.

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 springs.

**NOTE:** Check the following before attempting to wind torsion spring(s):
1. Counterbalance lift cables are secured at bottom corner brackets.
2. Counterbalance lift cables are routed unobstructed to cable drums.
3. Counterbalance lift cables are correctly installed and wound onto cable lift drums.
4. Counterbalance lift cables are taut and have equal tension on both sides.
5. Lift drums are against end bearing brackets and set screws are tight.
6. Torsion spring or springs are installed correctly.
7. 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 torsion spring(s).

**WARNING**
FAILURE TO ENSURE DOOR IS IN A CLOSED POSITION AND TO PLACE LOCKING PLIERS ONTO VERTICAL TRACK CAN ALLOW DOOR TO RISE AND CAUSE SEVERE OR FATAL INJURY.

<table>
<thead>
<tr>
<th>Winding Bars (Steel Rods)</th>
<th>Size Of Winding Bar (Inches)</th>
<th>Spring Inner Diameter Used On</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; dia. x 18&quot;</td>
<td></td>
<td>2&quot; and 2-5/8&quot;</td>
</tr>
<tr>
<td>5/8&quot; dia. x 24&quot;</td>
<td></td>
<td>3-3/4&quot;</td>
</tr>
</tbody>
</table>

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

**WARNING**
USE ONLY SPECIFIED WINDING BARS, AS STATED IN STEP SECURING DOOR FOR SPRING WINDING. DO NOT SUBSTITUTE WITH SCREWDRIVERS, PIPE, ETC. OTHER TOOLS MAY FAIL OR RELEASE FROM THE SPRING CONE AND CAUSE SEVERE OR FATAL INJURY.

**WARNING**
PRIOR TO WINDING THE SPRING, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS SHOWN BELOW. OTHERWISE THE SPRING FITTING MAY RELEASE FROM SPRING AND RESULT IN SEVERE OR FATAL INJURY.

Position a ladder slightly to the side of the spring so that the winding cone is easily accessible, and so your body is not directly in line with the winding bars.

Check the label attached to the spring warning tag for the required number of complete turns to balance your door.

**HOW TO WIND TORSION SPRINGS:**
1. Insert one winding rod snugly into winding cone, to full socket depth.
2. Maintaining a tight grip on the winding rod rotate it slowly in the proper direction, as shown below.

3. If there is any slippage of the winding rod in the winding cone socket, reverse the direction of winding and return the cone to its original position. Remove the winding rod from the winding cone socket. Reset the winding rod in the socket. Start over at Step #1.

4. When the winding rod is vertical above the winding cone, insert another winding rod into one of the other sockets, being careful to seat it snugly and at full socket depth.

5. Hold the spring with the second winding bar, and remove the first.

6. Repeat Steps #2 through #5 until the complete turns have been applied.

IMPORTANT: AFTER WINDING THE SPRING(S), TIGHTEN THE (2) SET SCREWS TO 14-15 FT. LBS. OF TORQUE IN THE WINDING CONE. ONCE SET SCREWS CONTACT THE SHAFT, TIGHTEN SCREWS ONE FULL TURN.

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.

ATTACHING WEATHER SEAL

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 an opener is installed, position horizontal tracks one hole above level when securing it to the rear back hangs.

ATTACHING WEATHER SEAL

PERMANENTLY ATTACH THE WEATHERSEALS ON BOTH DOOR JAMBS AND HEADER. THE WEATHERSEALS WERE TEMPORARILY ATTACHED IN PREPARING THE OPENING, IN THE PRE-INSTALLATION SECTION OF THIS MANUAL.

NOTE: When permanently attaching the weatherseals to the jamb, avoid pushing the weatherseals too tightly against the face of door.
Remove locking pliers. Lift door and check its balance. Adjustments to the required number of spring turns stated may be necessary. If door rises off floor more than 2 ft. under spring tension alone, reduce spring tension. If the door is hard to rise or drifts down on its own, add spring tension. A poorly balanced door can cause garage door operator problems.

To adjust spring tension, fully close door. Apply locking pliers to track above third track roller. Place locking pliers on torsion shaft, as shown in Step Attaching Counterbalance Lift Cables. Insert a winding rod into the winding cone. Push upward on the winding rod slightly while carefully loosening the set screws in the winding cone.

IMPORTANT: BE PREPARED TO SUPPORT THE FULL FORCE OF THE TORSION SPRING ONCE THE SET SCREWS ARE LOOSE.

Carefully adjust spring tension 1/4 turn. Retighten both set screws to 14-15 ft. lbs. of torque in the winding cone and repeat for the other side. Recheck door balance and re-adjust spring tension if needed.

IMPORTANT: DO NOT ADJUST MORE THAN 1 TURN FROM THE RECOMMENDED NUMBER OF TURNS.

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 torsion shaft and flag angles / angle mount level and plumb?
3.) Does the distance between the flag angles / angle mount 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.

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

NOTE: If Wayne Dalton operator / trolley bracket was installed, follow these directions.
Align hole in the door arm with holes in operator bracket tabs, as shown. Attach with 5/16” x 1-3/4” cotter pin and cotter ring.

Drawbar operator bracket tabs
Cotter ring
5/16” x 1-3/4” Clevis pin
Door arm

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.

Second section
Side lock
End stile
Square hole in vertical track
(4) 1/4” - 20 x 11/16” Self drilling screws

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.

No. 6 Screw eye
Typical bottom corner bracket
48” to 50” From floor
Pull down rope
Pull down rope
Maintenance

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 clothes or solvent-based cleaners of any kind.

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

Painting Your Garage Door

Refer to Instruction Insert: “Field Painting and Finishing Fiberglass or Steel Door Sections”.

Painting Your Garage Door: refers to the manufacturer’s instructions and reference TDS 165.

Painting Your Garage Door: refers to the manufacturer’s instructions and reference TDS 165.

Maintaining The Finish On 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 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.

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 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. 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, 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 back hangs 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 forceful 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

Models 8300 / 8500 and Model 8300 Sonoma Wood Grain

Wayne Dalton, a division of Overhead Door Corporation (“Seller”) warrants to the original purchaser of the Models 8300 / 8500 and the Model 8300 Sonoma Wood Grain (“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* on the Product sections against:

• The Product becoming inoperable due to rust-through of the steel skin from the core of the Product section, due to cracking, splitting, or other deterioration of the steel skin, or due to structural failure caused by separation or degradation of the foam insulation.
• Peeling of the original paint as a result of a defect in the original paint or in the application of the original paint coating on standard paint colors (excludes Walnut or Golden Oak wood grain finish).
• The Product hardware and tracks (except springs).

TWO (2) YEARS against peeling or fading of finish on Product sections with Walnut or Golden Oak wood grain finish.

ONE (1) YEAR on those component parts of the Product not covered by the preceding provisions of this Warranty.

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.