Model Series 7100

TORSION

RESIDENTIAL AND LIGHT COMMERCIAL
REAR MOUNT LOW HEADROOM
OUTSIDE HOOKUP

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

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Part Number 347779

REV7_06/20/2018
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.

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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 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 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. Track systems are not intended or designed to support extra weight.**
17. **This door may not meet the building code wind load requirements in your area. For your safety, you will need to check with your local Wayne Dalton Sales Center.**
18. **If nailing product at 40°F or below, pre-drilling is required.**

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**WARNING**
**DASMA technical data sheets #156, #161 and #164 at www.Wayne-Dalton.com**

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If you just removed your existing door or you are installing a new door, complete all steps in preparing the opening.

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**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.

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**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.

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**WARNING**
Moving door could result in death or serious injury.

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**WARNING**
High tension spring could result in death or serious injury.

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**WARNING**
Keep people clear of opening while Door is moving.

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**WARNING**
Do not try to remove, install, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.

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

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**WARNING**
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.

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The inside perimeter of your garage door opening should be framed with wood jambs and header material. The jambs and header must be securely fastened to sound framing members. It is recommended that 2” x 6” lumber be used. 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 torsion 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).

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

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

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**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.**

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**WARNING**
**MEDIA**

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**WARNING**
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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 Type</th>
<th>Manual Lift</th>
<th>Motor Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'0&quot; to 7'0&quot;</td>
<td>15&quot; Radius</td>
<td>102&quot; (2591 mm)</td>
<td>125&quot; (3175 mm)</td>
</tr>
<tr>
<td>7'1&quot; to 8'0&quot;</td>
<td>15&quot; Radius</td>
<td>114&quot; (2896 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>

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

**Package Contents**

- Door sections (as required)
- Torsion shaft / Torsion keyed shaft (as required)
- Torsion keyed shafts (as required)
- Fully Adjustable flag angles RH/LH (as required)
- Riveted vertical track assemblies RH/LH (as required)
- Vertical tracks RH/LH (as required)
- Angle mount vertical track assemblies RH/LH (as required)
- Horizontal tracks RH/LH (as required)
- Fully Adjustable jamb brackets (as required)
- Pull down rope (if included)
- Weatherstrips & nails (if included)
- Track rollers (as required)
- Top fixtures (as required)
- Hinges (as required)
- Clevis pin (as required)
- Cotter pin (as required)
- (2) Roller spacers (as required)
- Track roller carriers (as required)
- Lift handles (as required)
- Center bracket bushing assembly (as required)
- Center bearing bracket assembly (as required)
- Torsion springs RH/LH
- Keys (as required)
- (2) Cable lift sheaves (as required)
When installing your door, you must use sections of the appropriate height in the right stacking location. Determine, what sections you need to use in what order depends on the design of your door.

Sections are stamped for identification, #1, #2, #3, and #4 (#4 only on four section high doors). The stamp, located on each side of the sections identifies the stacking sequence. The sequence is always determined by #1 being the bottom section to #4 or #3 being the highest top section. If the stamp on the section is illegible, refer to the section side view illustration. The section side view illustration shows the section profile of all sections, and can also be used to identify each section.

The BOTTOM SECTION can be identified by #1.

The INTERMEDIATE I SECTION can be identified by #2.

The INTERMEDIATE II SECTION can be identified by #3, for a 4 section high door only.

The TOP SECTION can be identified either by a #3, for a 3 section high door or by a #4, for a 4 section high door.

**Tools Required**

- Power drill
- 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
- 1/4" Tamper-resistant Torx bit
- (2) 5/16" Washers
- Counterbalance lift cables
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
C3. Short Stem Tandem Track Rollers
C4. Long Stem Tandem 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 Hinges (As required)

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

F. TOP FIXTURES (AS REQUIRED):
F1. Top Fixtures

G. STRUT(S) (AS REQUIRED):
G1. Strut (2” U-shaped) / G2. Strut (3” U-shaped)

H. TRACKS (AS REQUIRED):
H1. Left Hand and Right Hand Horizontal Track Assemblies
H2. Left Hand and Right Hand Vertical Tracks
H3. Left Hand and Right Hand Riveted Vertical Track Assemblies

I. TORSION SPRING ASSEMBLY (AS REQUIRED):
I1. Left Hand and Right Hand Torsion Springs (As Required)
I2. Counterbalance Lift Cables
I3. Left Hand and Right Hand Cable Drum
I4. Center Bracket (As Required)
I5. Center Bracket Bearing (As Required)
I6. Torsion Shaft / Torsion Keyed Shaft (As Required)
I7. Torsion Keyed Shafts (As Required)
I8. Keys (As Required)
I9. Center Coupler Assembly (As Required)
I10. Cable Sheaves
I11. Oval bearings (As Required)
I12. Cable sheave saddles

J. REAR BACK HANGS:
J1. Left Hand And Right Hand Rear Back Hang Assemblies
J2. Left and Right Hand Rear Center Back Hang Assemblies (As Required)
J3. Left and Right Hand Rear Center Back Hang Assemblies (As Required)

K. BOTTOM CORNER BRACKETS (AS REQUIRED):
K1. Left Hand and Right Hand Bottom Corner Brackets

L. BOTTOM WEATHER SEAL (AS REQUIRED):
L1. Bottom Weather Seal (Door Width), (Nails Not Supplied)

M. TRACK ROLLER CARRIERS (AS REQUIRED):
M1. Track Roller Carriers

NOTE: The illustrations shown on this page are general representations of the door parts. Each specific door models may have unique variations.

NOTE: For Item (J2), The Rear Center Back Hang Assemblies are to used for all doors over 11'0” door height and over 14'0” door width. One Rear Center Back Hang Assembly, per side.

NOTE: For Item (J3), The Rear Center Back Hang Assemblies are to used for all doors over 16'0” door height. Two Rear Center Back Hang Assemblies, per side.
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.


IMPORTANT: WOOD DOORS MUST BE COMPLETELY FINISHED. (3 TOTAL COATS, INCLUDING PRIMER COAT) PRIOR TO INSTALLATION, TO ENSURE THAT THE INTERIOR AND EXTERIOR SURFACES, AS WELL AS ALL EDGES OF THE DOORS ARE PROPERLY PROTECTED AGAINST MOISTURE OR OTHER CONTAMINANTS. WOOD DOORS, IN A NON-FINISHED CONDITION, MUST BE TRANSPORTED AND STORED SO THE WOOD SURFACES ARE NOT EXPOSED TO MOISTURE OR OTHER CONTAMINANTS. IMPROPER TRANSPORTATION, STORAGE OR DELAYS IN FINISHING, THAT ALLOWS EXPOSURE OF THE WOOD DOOR SURFACES TO MOISTURE OR OTHER CONTAMINANTS WILL RESULT IN THE WARRANTY BEING VOIDED.

1 Attaching Flag Angles and Jamb Brackets To Vertical Tracks

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

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

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

To attach the top 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.

Repeat the same process for right hand side.

2 Attaching Bottom Weather Seal

NOTE: Reference Package Contents or Breakdown Of Parts, to determine if a bottom weather seal was supplied. If a bottom weather seal was supplied, complete this step.

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

With the bottom section facing down from the previous step, uncoil the counterbalance lift cables.

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.

3 Attaching Bottom Corner Brackets

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

Locate the left hand bottom corner bracket. Align the bottom corner bracket horizontally with the bottom edge of the bottom section and also align the bottom corner bracket vertically with the left bottom edge of the bottom section. Mark and pre-drill 9/32" diameter holes through the bottom section. Attach the bottom corner bracket to the bottom section using (3) 1/4" - 20 x 2-1/4" carriage bolts and (3) 1/4" - 20 flange hex nuts. Repeat the same process for the right hand side.

NOTE: All doors are provided with the tamper resistant fastener for the bottom corner brackets. Professional installers should have the proper tool to install this fastener. For those that do not have the proper tool to install the tamper resistant fastener, use a regular 1/4" - 20 x 2-1/4" carriage bolt and a 1/4" - 20 flange hex nut in its place.

Next, secure the bottom corner bracket to the bottom section using (1) 1/4" - 10 x 1" tamper resistant lag screw to the left hand bottom corner bracket. Repeat the same process for the right hand side.
4 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, position the track roller carrier with the stamp "STD" facing UP to the bottom corner bracket and 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 with (4) 1/4" - 14 x 1" lag screws.

NOTE: Prior to fastening the track roller carrier to the bottom section, pilot drill using a 1/8" drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

Insert a short stem track roller and spacer into the bottom corner bracket. 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; the outer holes are used on doors with 3" track applications.

5 Attaching Hinges and Strut To Bottom Section

Lay a SHORT STRUT onto the bottom rail of the bottom section. Position the bottom of the strut 3/4" up from the bottom edge of the bottom section. Center the short strut from side to side on the section surface. Drill pilot holes, 1" deep into the bottom section using a 1/8" drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

Attach the strut using (1) 1/4" - 14 x 1" lag screw at each pre-drilled hole.

NOTE: Refer to the Graduated End Hinge Schedule below, to determine the appropriate hinges for your bottom section.

<table>
<thead>
<tr>
<th>Graduated End Hinge Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Height</td>
</tr>
<tr>
<td>3 Section High Door</td>
</tr>
<tr>
<td>4 Section High Door</td>
</tr>
</tbody>
</table>

NOTE: Center hinge(s) use #1 graduated end hinges at each pre-drilled or vertical stile location. The pre-drilled locations are located at the top rails on the inside of the section surface.

NOTE: Measure the height of the long strut(s) to determine if you have 2" or 3".

NOTE: Some struts also may or may not have holes in them. If they don’t, then prior to installing the strut and hinge to the section surface, you may have to drill a 3/16" hole for the appropriate fastener on one or both sides of the strut legs.

Using the appropriate graduated end hinges for the ends and depending on the width of your door, enough center hinge(s) for each pre-drilled hole location(s). Starting at the upper left hand corner of the bottom section. Position the lower hinge leaf of the appropriate graduated end hinge onto the upper corner of the bottom section. Align the slots of the lower hinge leaf with the pre-drilled holes in the bottom section.

NOTE: If you have strut clips, ensure the strut clip is positioned on the hinge, as shown.

FOR GRADUATED END HINGES:

IF YOU HAVE 2" LONG STRUTS: Lay the leg of the long strut over the bottom hole of the lower hinge leaf and the bottom section. Center the long strut from side to side. Attach the upper slot of the graduated end hinge to the bottom section using (1) 1/4" - 20 x 2-1/4" cariage bolt and (1) 1/4" - 20 flange hex nut. Next attach the bottom hole of the graduated end hinge to the bottom leg of the strut using (1) 1/4" - 20 x 2-1/4" cariage bolt and (1) 1/4" - 20 flange hex nut. Next secure the bottom leg of the strut to the bottom section using (1) 1/4" - 20 x 2-1/4" cariage bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

IF YOU HAVE 3" LONG STRUTS: Lay a long strut over the lower hinge leaf and over the top rail of the bottom section. Center the long strut from side to side. Attach the upper slot of the graduated end hinge next to the first (single) graduated end hinge. Using the second graduated end hinge as template, drill pilot holes, 1" deep into the bottom section using a 1/8" drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

Secure the strut and the graduated end hinge to the bottom section using (2) 1/4" - 14 x 1" lag screws. Repeat for other side.

IF YOU HAVE DOUBLE GRADUATED END HINGES: Position the second graduated end hinge next to the first (single) graduated end hinge. Using the second graduated end hinge as a template, drill pilot holes, 1" deep into the bottom section with a 1/8" drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

IF YOU HAVE 2" LONG STRUTS: Attach the upper slot of the center hinge using a 1/4" - 14 x 1" lag screw. Secure the leg of the strut to the hole of the center hinge using a 1/4" - 14 x 1" lag screw. Secure the other leg of the strut to the section using a 1/4" - 14 x 1" lag screw. Repeat for other center hinge(s).

IF YOU HAVE 3" LONG STRUTS: Attach the upper leg of the strut to the upper slot of the center hinge using (1) strut clip and a 1/4" - 14 x 1" lag screw. Secure the lower leg of the strut to the hole of the center hinge using a 1/4" - 14 x 1" lag screw. Repeat for other center hinge(s).
**Attaching Hinges and Strut To Intermediate Section(s)**

**NOTE:** Refer to door section identification, located in the pre-installation section of this manual to determine what size section you need to use as your intermediate I (second) and if applicable intermediate II (third) section. Measure your section to make sure it is the correct width of your door, enough center hinge(s) for each pre-drilled hole location(s). Starting at the upper left hand corner of the Intermediate section. Position the lower hinge leaf of the appropriate graduated end hinge onto the upper corner of the Intermediate section. Align the slots of the lower hinge leaf with the pre-drilled holes in the Intermediate section. Next, lay a long strut over the lower hinge leaf and over the top rail of the Intermediate section. Center the long strut from side to side.

**FOR GRADUATED END HINGES:**

**IF YOU HAVE 2" LONG STRUTS:** Lay the leg of the long strut over the bottom hole of the lower hinge leaf and the Intermediate section. Center the long strut from side to side. Attach the upper slot of the graduated end hinge to the Intermediate section using (1) 1/4" - 20 x 2-1/4" carriage bolt and (1) 1/4" - 20 flange hex nut. Next attach the bottom hole of the graduated end hinge to the upper leg of the strut to the Intermediate section using (1) 1/4" - 20 x 2-1/4" carriage bolt and (1) 1/4" - 20 flange hex nut. Secure the bottom leg of the strut to the Intermediate section using (1) 1/4" - 20 x 2-1/4" carriage bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**IF YOU HAVE 3" LONG STRUTS:** Lay a long strut over the lower hinge leaf and over the top rail of the Intermediate section. Center the long strut from side to side. Attach the upper slot of the graduated end hinge, (1) strut clip to the upper leg of the strut to the Intermediate section using (1) 1/4" - 20 x 2-1/4" carriage bolt and (1) 1/4" - 20 flange hex nut. Next secure the bottom leg of the strut with the hole of the graduated end hinge to the Intermediate section using (1) 1/4" - 20 x 2-1/4" carriage bolt and (1) 1/4" - 20 flange hex nut. Repeat for other side.

**IF YOU HAVE DOUBLE GRADUATED END HINGES:** Position the second graduated end hinge next to the first (single) graduated end hinge. Using the second graduated end hinge as a template, drill pilot holes, 1” deep into the bottom section using a 1/8” drill bit.

**IMPORTANT:** Refer to the Strutting Schedules below, to determine the appropriate strutting for your Intermediate(s) section.

**FOR CENTER HINGES:** Align the slots of the lower hinge leaf with the pre-drilled holes at each center side, located at the top rail of the Intermediate section. Using the center hinge as a template, drill pilot holes, 1” deep into the Intermediate section with a 1/8” drill bit if needed.

**IMPORTANT:** Refer to the Graduated End Hinge Schedule below, to determine the appropriate hinges for your bottom section.

**Graduated End Hinge Schedule**

<table>
<thead>
<tr>
<th>Door Height</th>
<th>Section Type</th>
<th>Graduated End Hinge Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Section High Door</td>
<td>Intermediate I</td>
<td>#4</td>
</tr>
<tr>
<td>4 Section High Door</td>
<td>Intermediate II</td>
<td>#3</td>
</tr>
<tr>
<td></td>
<td>Intermediate I</td>
<td>#2</td>
</tr>
</tbody>
</table>

**NOTE:** Refer to the Straut Schedules below, to determine the appropriate strutting for your Intermediate(s) section.

**3 Section High Straut Schedules**

<table>
<thead>
<tr>
<th>Section Type</th>
<th>Type Of Strut</th>
<th>Location On Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate I</td>
<td>(1) Long</td>
<td>Top Of Section</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>Bottom Of Section</td>
</tr>
</tbody>
</table>

**4 Section High Straut Schedules**

<table>
<thead>
<tr>
<th>Section Type</th>
<th>Type Of Strut</th>
<th>Location On Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate II</td>
<td>N/A</td>
<td>Top Of Section</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>Bottom Of Section</td>
</tr>
<tr>
<td>Intermediate I</td>
<td>(1) Long</td>
<td>Top Of Section</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>Bottom Of Section</td>
</tr>
</tbody>
</table>

**NOTE:** Center hinge(s) use #1 graduated end hinges at each pre-drilled or vertical stile location. The pre-drilled locations are located at the top rails on the inside of the section surface. Some struts also may or may not have holes in them. If they don’t, then prior to installing the strut and hinge to the section surface, you may have to drill a 3/16” hole for the appropriate fastener on one or both sides of the strut legs.

**NOTE:** If you don’t have half center hinges, then skip this part of the step. Refer to Package Contents / Breakdown Of Parts, to determine if you have half center hinges.

Using a tape measure, position the half center hinges equally spaced in between the center hinges and the graduated end hinges. Position the holes of the lower hinge leaf at the top rail of the bottom section. Using the half center hinge as a template, drill pilot holes, 1” deep into the bottom section with a 1/8” drill bit (if needed).

**IMPORTANT:** **BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1” DEEP.**

Attach the lower hinge leaf of the center hinge to the bottom section using (2) 1/4” - 14 x 1” lag screws. Repeat for other half center hinge(s).

If you have single graduated end hinges; insert a short stem track roller / short stem tandem track roller (if included) into the hinge tube on each side.

If you have double graduated end hinges, insert a long stem track roller / short stem tandem track roller (if included) into the hinge tubes on each side.

**IMPORTANT:** **WHEN PLACING TRACK ROLLERS / TANDEM TRACK ROLLER (IF INCLUDED) INTO GRADUATED END HINGES NUMBER 2 AND HIGHER, THE TRACK ROLLER / TANDEM TRACK ROLLER (IF INCLUDED) GOES INTO TUBE FURTHEST AWAY FROM SECTION.**

**NOTE:** Some struts also may or may not have holes in them. If they don’t, then prior to installing the strut and hinge to the section surface, you may have to drill a 3/16” hole for the appropriate fastener on one or both sides of the strut legs.

Place the Intermediate I section face down on a couple of sawhorses or flat clean/ smooth surface. Using the appropriate graduated end hinges for the ends and depending on the width of your door, enough center hinge(s) for each pre-drilled hole location(s). Starting at the upper left hand corner of the Intermediate section. Position the lower hinge leaf of the appropriate graduated end hinge onto the upper corner of the Intermediate section. Align the slots of the lower hinge leaf with the pre-drilled holes in the Intermediate section. Next, lay a long strut over the lower hinge leaf and over the top rail of the Intermediate section. Center the long strut from side to side.

Secure the strut and the graduated end hinge to the Intermediate section using (2) 1/4” - 14 x 1” lag screws. Repeat for other side.

**2” LONG STRUT**

**2” LONG STRUT**

**3” LONG STRUT**

**3” LONG STRUT**

**FOR CENTER HINGES:**

**IF YOU HAVE 2” LONG STRUTS:** Attach the upper slot of the center hinge using a 1/4” - 14 x 1” lag screw. Secure the leg of the strut to the hole of the center hinge using a 1/4” - 14 x 1” lag screw. Secure the other leg of the strut to the section using a 1/4” - 14 x 1” lag screw. Repeat for other center hinge(s).

**IF YOU HAVE 3” LONG STRUTS:** Attach the upper slot of the center hinge using a 1/4” - 14 x 1” lag screw. Secure the leg of the strut to the hole of the center hinge using a 1/4” - 14 x 1” lag screw. Secure the other leg of the strut to the section using a 1/4” - 14 x 1” lag screw. Repeat for other center hinge(s).
### Attaching Top Fixtures And Strut To Top Section

**NOTE:** Refer to door section identification, located in the pre-installation section of this manual to determine what size section you need to use as your top section. Measure your section to make sure it is the correct height as indicated on the chart.

Place the top section face down on a couple of sawhorses or flat clean/smooth surface. Lay a SHORT STRUT onto the top rail of the top section. Position the top of the strut 3/4" downward from the top edge of the top section. Center the short strut from side to side on the section surface. Drill pilot holes, 1" deep into the top section using a 1/8" drill bit.

**IMPORTANT:** BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

Attach the strut using (1) 1/4" - 14 x 1" lag screw at each pre-drilled hole.

**NOTE:** If your door came with two top fixtures, then one top fixture and a short stem track roller are required for each side.

**NOTE:** If your door came with four top fixtures, then two top fixtures and a long stem track roller are required for each side.

Starting on the left hand side, align the edge of the top fixture parallel to the top section edge. Using the top fixture base as a template, mark and pre-drill (2) 9/32" diameter holes through the top section. Loosely attach the top fixture base to the top section using (2) 1/4" - 20 x 2-1/4" carriage bolts and (2) 1/4" - 20 flange hex nuts. Repeat the same process for the right hand side.

#### IF YOU HAVE FOUR TOP FIXTURE ASSEMBLIES:

Position the second top fixture assembly next to the first installed top fixture assembly. Using the top fixture base as a template, drill pilot holes, 1" deep into the top section with a 1/8" drill bit.

**IMPORTANT:** BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1" DEEP.

Loosely attach the top fixture base to the top section using (2) 1/4" - 14 x 1" lag screws. Repeat the same process for the right hand side.

### Attaching Vertical Tracks To Jambs

**NOTE:** Depending on your door, you may have 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 FULLY ADJUSTABLE FLAG ANGLES: Loosely fasten jamb brackets and flag angle to the jamb using 5/16” x 1-5/8” lag screws. Tighten lag screws, securing the bottom jamb bracket to jamb, maintain 3/8” to 5/8” spacing, between the bottom section and vertical track. Hang counterbalance lift cable over flag angle. Repeat same process for other side.

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

FOR ANGLE MOUNT VERTICAL TRACK ASSEMBLY: Loosely fasten the slots in the wall 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.

FOR CENTER HINGE(S) AND OR HALF CENTER HINGE(S): Flip an upper hinge leaf up and use it as a template. Mark and pre-drill (2) 1/8” pilot holes, 1” deep into the section with a 1/8” drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1” DEEP.

Attach the center hinge upper leaf to the section using (2) 1/4” - 14 x 1” lag screws. Repeat same process for other center hinge(s) and or half center hinge(s).

FOR GRADUATED END HINGES: Starting with the outer graduated end hinges, flip the upper hinge leaf up and use it as a template. Mark and pre-drill (2) 9/32” diameter holes through the section. Attach the upper hinge leaf to the section using (2) 1/4” - 20 x 2-1/4” carriage bolts and (2) 1/4” - 20 flange hex nuts. Repeat same process for the other side.

IF YOU HAVE DOUBLE GRADUATED END HINGES: Flip the inner upper hinge leaf up and use it as a template. Mark and pre-drill (2) 1/8” pilot holes, 1” deep into the section with a 1/8” drill bit.

IMPORTANT: BE EXTREMELY CAREFUL NOT TO DRILL THRU THE SECTION. ONLY DRILL 1” DEEP.

Attach the inner upper hinge leaf to the section using (2) 1/4” - 14 x 1” lag screws. Repeat same process for the other side.

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 intermediate I (second) section and intermediate II (third) section (if applicable). 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. Keeping the sections vertically aligned, lower section until it is seated against bottom section.

Stacking Sections
To install horizontal track, place the top rail end over the top track roller of the top section.

**IMPORTANT:** PUSH & HOLD THE HINGE LEAF'S SECURELY AGAINST THE SECTIONS WHILE SECURING WITH APPROPRIATE FASTENERS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAFS AND THE SECTIONS.

Repeat same process for other sections (if applicable), except top section.

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

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

### Attaching Horizontal Tracks

**NOTE:** Depending on your door, you may have 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 FULLY ADJUSTABLE FLAG ANGLES OR RIVETED TRACK ASSEMBLIES:**

To install horizontal track, place the top rail end over the top track roller of the top section.

Align the bottom rail end of the horizontal track with the top of the vertical track. Tighten the bottom rail of 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 VERTICAL TRACK ASSEMBLIES:** To install horizontal track, place the top rail end over the top track roller of the top section. Align the bottom rail end of the horizontal track with the top of the vertical track. Tighten the bottom rail of 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 top rail of the horizontal track to the encountered slot in the flag angle / angle mount using (1) 1/4" - 20 x 9/16" track bolt, (1) 1/4" - 20 flange hex nut and (1) 5/16" washer.

**NOTE:** If you have angle mount, bolt the top rail of the horizontal track to the encountered slots in the angle mount using (2) 3/8" - 16 x 3/4" truss head bolts, (2) 3/8" - 16 hex nuts. Repeat for other side.

Next remove the nail that was temporarily holding the top section in place, installed in step, Top Section.

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

### Adjusting Top Fixtures

**NOTE:** Refer to Package Contents / Breakdown of Parts, to determine which Top Fixtures Assemblies you have.

With horizontal tracks installed, you can now adjust the top fixtures. Vertically align the top section of the door with the lower sections. Once aligned, position the top fixture slide(s), out against the horizontal track. Maintaining the slide’s position, tighten the 1/4" - 14 x 1" lag screws to secure each of the top fixtures.
**COUNTERBALANCE INSTALLATION INSTRUCTIONS**

### 14 Attaching Cable Lift Sheaves

**NOTE:** Using the illustrations below, identify which cable lift sheave assemblies were provided with your door.

**FOR 3” OR 4” SHEAVES, WITH NO SHEAVE SADDLE:** Place a 3/8” - 16 x 1-1/2” hex head bolt through the hole in the sheave plate. Next insert the sheave over the end of the bolt. Secure the sheave to the sheave plate with a 3/8” - 16 nut. Repeat the same process for the other side. Then loop the counterbalance cables over each sheave, as shown.

**FOR 5” SHEAVES, WITH SHEAVE SADDLE:** Position the sheave saddle over the 1” x 4” x 23” angle and align the slots in the sheave saddle with the corresponding holes in the 1” x 4” x 23” angle. While holding the sheave saddle in place, insert (1) 5/16” - 18 x 3/4” carriage bolt through each of the aligned holes and secure the assembly with 5/16” - 18 hex nuts. Repeat the same process for the other side. Then loop the counterbalance lift cables over each sheave, as shown.

### 15 Attaching Rear Back Hangs

**NOTE:** Temporarily support the horizontal track with rear back hangs as shown in illustrations, without lifting door. 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” x 2” x 12 Gauge</td>
<td>Less Than 800 lbs.</td>
</tr>
<tr>
<td>1-1/4” x 1-1/4” x 13 Gauge</td>
<td>Less Than 305 lbs.</td>
</tr>
</tbody>
</table>

**NOTE:** If an 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 CANTILEVER 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.
Torsion Spring Assembly

NOTE: Refer to Package Contents / Parts Breakdown, 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 17” wide. The two center bearing brackets will need to be spaced 12” to 14” apart at the center of the door, as shown.

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) OR LEFT WOUND (BLACK WINDING CONE).

NOTE: On some single spring doors, the single 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 to determine appropriate center bracket location.

NOTE: If your door came with a center coupler assembly or if 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.

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

IMPORTANT: REFERENCE THE ILLUSTRATIONS FOR PROPER SPRING POSITIONING WHEN MORE THAN 2 SPRINGS ARE PROVIDED.

IMPORTANT: IN APPLICATIONS WHERE MORE THAN ONE SPRING SHAPES A CENTER BRACKET, USE ONLY 1 BEARING IN THE SPRING. ATTEMPTING TO USE 2 BEARINGS CAN DAMAGE THE BEARINGS AND / OR SPRING CONES.

Facing the inside of the door, either lay the torsion shaft / torsion keyed shaft on the floor or 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.

IMPORTANT: DEPENDING ON YOUR DOOR APPLICATION, USE ONE OF THE THREE ILLUSTRATIONS, SHOWN BELOW TO ASSEMBLE YOUR TORSION COUNTERBALANCE SYSTEM.

IF YOU HAVE ONE OR TWO TORSION SPRINGS AND ONE PIECE TORSION SHAFT:

NOTE:

IF YOU HAVE ONE OR TWO TORSION SPRINGS AND ONE PIECE TORSION SHAFT:

One or Two springs, One piece shaft

IMPORTANT: ON SINGLE SPRING APPLICATIONS, ONLY A RIGHT WOUND (RED WINDING CONE) WHICH GOES ON THE RIGHT HAND SIDE IS REQUIRED.

Left wound, black winding cone (left hand side)

Oval bearing

Torsion shaft or Torsion keyed shaft

Right wound, red winding cone (right hand side)

IF YOU HAVE FOUR TORSION SPRINGS AND ONE PIECE TORSION SHAFT / TORSION KEYED SHAFT:

Four springs, One piece shaft

Right wound, red winding cone (right hand side)

Left wound, black winding cone (left hand side)

Torsion shaft or Torsion keyed shaft

Center bearing

IF YOU HAVE TWO OR FOUR TORSION SPRINGS AND TWO PIECE TORSION KEYED SHAFTS:

Two or Four springs, Two piece shafts


WARNING

CENTER BEARING BRACKETS WITH SPRINGS MUST BE SECURELY FASTENED INTO SOLID STRUCTURAL MEMBERS ONLY AND MUST BE ADEQUATELY REINFORCED TO HOLD THE LOAD OF TORSION SPRING ASSEMBLIES. FAILURE TO DO SO CAN CAUSE SEVERE OR FATAL INJURY.

NOTE: If applicable, it is recommended that 5/16” lag screws are pilot drilled using a 3/16” drill bit, prior to fastening the center bracket to the ceiling.

Referring to Step, Rear Back Hangs either secure the center bearing bracket(s) to the ceiling using perforated angle at the center of the opening width using 3/8” - 16 x 3/4” hex head bolts and nuts (not supplied) or to wood blocking (adequate framing member(s)) at the center of the opening width using 5/16” x 1-5/8” RED HEAD hex head lag screws.

IMPORTANT: THE 5/16” RED HEAD LAG SCREWS MUST BE ATTACHED TO THE CENTER BRACKET(S).

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).
Adequate framing members

IF YOU HAVE A TORSION SHAFT OR A TORSION KEYED SHAFT: With assistance, pick up the torsion spring assembly and slide one end of the shaft through the rear support bracket. Extend the shaft through the bearing until the opposite end of the shaft can be inserted into the other rear support bracket. If your door came with oval bearing(s), loosely attach the oval bearing to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 hex nuts, as shown. Repeat for others, if needed.

IMPORTANT: THE SPRING WARNING TAG(S) SUPPLIED MUST BE SECURELY ATTACHED TO THE STATIONARY SPRING CONE(S) IN PLAIN VIEW. SHOULD A REPLACEMENT SPRING WARNING TAG BE REQUIRED, CONTACT WAYNE DALTON FOR FREE REPLACEMENTS.

FOR DOORS WITHOUT COUPLER ASSEMBLY: Equalize the amount that the torsion shaft / torsion keyed shaft protrudes on each side. Align the stationary cone(s) of the torsion springs with the slots in the rear support bracket and secure using (2) 3/8" - 16 x 1-1/2" truss head bolts and (2) 3/8" - 16 hex nuts.

FOR DOORS WITH A COUPLER ASSEMBLY: At the middle of the two center bearing brackets, re-assemble the coupler assembly by loosely fastening the coupler halves together re-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, as shown.

NOTE: Ensure both torsion keyed shafts have equal amounts of the shafts extending from each rear support bracket. Next, align the stationary cone(s) of the torsion springs with the slots in the rear support brackets and secure using (2) 3/8" - 16 x 1-1/2" truss head bolts and (2) 3/8" - 16 hex nuts. Repeat for opposite side. Secure all oval bearing(s), to the center bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 hex nuts.

NOTE: If you have 4 springs, 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.

Attaching Torsion Spring
IMPORTANT: RIGHT AND LEFT HAND IS ALWAYS DETERMINED FROM INSIDE THE GARAGE LOOKING OUT.

Slide the black cable drum against the left hand rear support bracket. Thread the counterbalance lift cable up and over the cable sheave. Position the cable drum and counterbalance lift cable, as shown. Hook the cable into the drum.

NOTE: For doors with a torsion keyed shaft, insert (1) key into the slot of both the black cable drum and the slot in the torsion keyed shaft, as shown.

Tighten the set screws in the black cable drum to 14-15 ft. lbs. of torque (once set screws contact the shaft, tighten screws one full turn).

Tighten set screws to 14-15 ft. lbs. of torque (once set screws contact the shaft, tighten screws one full turn).

IMPORTANT: CHECK EACH COUNTERBALANCE LIFT CABLE, MAKING SURE BOTH ARE SEATED PROPERLY ON THE SKEWERS, CABLE DRUMS, ARE SECURELY ATTACHED TO THE BOTTOM CORNER BRACKETS AND BOTH SIDES HAVE EQUAL COUNTERBALANCE LIFT TENSION.

Now, secure the coupler assembly (if applicable) by tightening the (3) 3/8" - 16 hex nuts.
Chalking Torsion Spring(s)

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

1. 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.

2. Draw horizontal chalk line prior to winding.

3. Spirals created after winding.

4. Torsion spring coils.

5. Warning tag.

Securing Door for Spring Winding

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):

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. Counterbalance lift cables are taut and have equal tension on both sides.

e. Cable lift drums are against end bearing brackets and set screws are tight.

f. Torsion spring or springs are installed correctly.

g. 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>2&quot; and 2-5/8&quot;</td>
<td></td>
</tr>
<tr>
<td>5/8&quot; dia. x 24&quot;</td>
<td>3-3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Winding Spring(s)

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 (E7). 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.

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. Restart 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.

Finish installing Rear Back Hangs

NOTE: Complete Step Rear Back Hangs now to secure the Rear Back Hangs, then proceed to next Step.

Attaching Weather Seal
24 Balancing 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. 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 E5. 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 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.

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

25 Label Placement

IMPORTANT: USING THE ILLUSTRATION, ATTACH THE APPROPRIATE LABELS TO THE APPROPRIATE LOCATION ON THE SECTION, AS SHOWN.

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

NOTE: Because of different configurations, some labels may require minor relocations.
**Door Arm Hookup**

At the center of the top section, measure horizontally from the top of center hinge to the bottom of strut. Using that dimension, measure and cut (2) pieces of perforated angles. Assemble the (2) pieces together using (2) 3/8" bolts and nuts (supplied by others). Now, secure to the top section using carriage bolts and nuts (supplied by others), thru bolt both the perforated angles to the top section, as shown.

Align the door arm with hole with one of the holes in the perforated angles. Secure the door arm to the perforated angle using (1) 5/16" - 18 x 1" hex head bolt and (1) 5/16" - 18 lock nut (supplied by others), as shown.

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**Lift Handles**

**NOTE:** Lift handles must be lined up vertically.

**BOTTOM SECTION:** Locate the exterior center stile or center most stile on the bottom section.

**NOTE:** For flush doors, find the center most stile by locating the center most hinge.

Using the bottom hole of the lift handle, measure up 3" from the bottom of bottom section. Mark the hole locations and drill (2) 9/32" dia. holes through the bottom section. On the outside of the door, insert (2) 1/4" - 20 x 2 1/2" carriage bolts (black head) into the outside lift handle and insert the assembly into the (2) pre-drilled holes in the bottom section. From the inside, slide the (2) holes in the inside lift handle over the stems of the carriage bolts. Secure the outside and inside lift handle to the bottom section with (2) 1/4" - 20 flange hex nuts.

**INTERMEDIATE I SECTION:** Locate the exterior center stile or center most stile on the Intermediate I section. Mark a vertical line on the section at that point.

**NOTE:** Some Garage Doors may require both lift handles to be installed on bottom section. If your bottom section height is 28" or 29", install both lift handles onto the bottom section. Install bottom lift handle per above instructions, then install the second lift handle a Minimum of 20" and a Maximum of 30" above the bottom lift handle.

Measure up 4" from the bottom of the Intermediate I section. Using this measurement as a guide, position the bottom hole of the lift handle bottom at the mark. Make a mark at the top hole of the lift handle. This should give you a Minimum of 20" and a Maximum of 30" between the lower lift handle and the middle of the top lift handle. If needed, reposition the lift handle to stay within the Minimum and Maximum dimensions, as stated above.

Using the lift handle as a template, mark the hole locations and drill (2) 9/32" dia. holes through the section. On the outside of the door, insert (2) 1/4" - 20 x 2-1/2" carriage bolts (black head) into the outside lift handle and insert the assembly into the (2) pre-drilled holes in the section. From the inside, slide the (2) holes in the inside lift handle over the stems of the carriage bolts. Secure the outside and inside lift handle to the section with (2) 1/4" - 20 flange hex nuts.

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**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.
Cleaning Your Garage Door

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

An annual inspection of all the surfaces of your garage door(s) will reveal the extent of weathering and the possible need for refinishing. When the finish becomes eroded or thin, clean and prime any areas showing deterioration. Then completely refresh the door, according to the directions, listed below, or the manufacturer’s label directions. Proper finishing of the wood substrates to protect your door(s) from the effects of moisture and sunlight is vital in extending the service life and beautifying your garage door(s).

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

CAUTION
NEVER MIX CLEANSERS OR DETERGENTS WITH BLEACH.

Glass Cleaning Instructions
Clean with a mild detergent solution (same as above) and a soft cloth. After cleaning, rinse thoroughly.

Acrylic Cleaning Instructions
Clean acrylic glazing with nonabrasive soap or detergent and plenty of water. Use your bare hands to feel and dislodge any caked on particles. A soft, grit-free cloth, sponge or chamois may be used to wipe the surface. Do not use hard or rough cloths that will scratch the acrylic glazing. Dry glazing with a clean damp chamois.

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

Painting Your Garage Door

Refer to Instruction Insert “Field Painting Wood Door Sections”.

Maintaining The Finish On Your Garage Door

If the 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 Wood 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 movement. 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: ONLY PULL DOWNropesmust be removed and LOCKSMUST 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 hangars 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: Paul 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

Model Series 7100

Wayne Dalton, a division of Overhead Door Corporation ("Seller") warrants to the original purchaser of the Model Series 7100 ("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 a period of One (1) year, measured from the date of installation:

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, puncture, drilling of holes (other than as directed by Seller), incorrect installation of hardware, fire, failure to provide necessary maintenance, normal wear and tear, exposure to salt or other corrosive environments, or acts of God or any other cause beyond the reasonable control of Seller. This warranty also specifically excludes all refinishing costs and any inconsistencies or occurrences related to the characteristics or attributes of natural wood, including but not limited to: (i) variations in the color or grain of Product sections, (ii) the emission or secretion of tannins from the Product sections which may stain or alter the color of a painted Product, and (iii) cracking, checking, lifting wood grain or cracking due to natural expansion and contraction of the Product sections.

SPECIAL PAINTING REQUIREMENTS: This warranty shall be void if the Product sections are not painted or sealed in accordance with DASMA TDS 162 (available at www.dasma.com) on all sides, including all edges with one (1) coat of exterior grade primer (or stain) and two (2) coats of high quality acrylic latex exterior grade finish paint (or sealer), applied in accordance with the paint or Sealer manufacturer’s instructions and Seller’s painting and maintenance instructions. Sections must be finished within five (5) days of receipt and prior to installation. Damage caused by exposure of the product to water, moisture, sun or other conditions prior to completion of painting (or Sealing) is excluded. This warranty shall also be void if the Product is painted a dark color, including but not limited to black, dark grey, dark green and dark brown*. IMPROPER TRANSPORTATION, STORAGE OR DELAYS IN FINISHING, THAT ALLOWS EXPOSURE OF THE WOOD DOOR SURFACES TO MOISTURE OR OTHER CONTAMINANTS WILL RESULT IN THE WARRANTY BEING VOIDED.

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 Seller 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.

* Dark colors shall mean colors as dark as or darker than any of the following Sherwin-Williams Exterior Colors: 7069 Iron Ore (darkgrey), 6447 Evergreens (dark green) or 7510 Chateau Brown (dark brown).

• 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.