

Model 8700

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" ($\leq 8'0"$) 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

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 necessary adjustments and/ or repairs made by a trained door system technician using proper tools and instructions.
8. DO NOT stand or walk under a moving door, or permit anybody to stand or walk under an electrically operated door.
9. DO NOT place fingers or hands into open section joints when closing a door. Use lift handles/ gripping points when operating door manually.
10. DO NOT permit children to operate garage door or door controls. Severe or fatal injury could result should the child become entrapped between the door and the floor.
11. Due to constant extreme spring tension, do not attempt any adjustment, repair or alteration to any part of the door, especially to springs, spring brackets, bottom corner brackets, fasteners, counterbalance lift cables or supports. To avoid possible severe or fatal injury, have any such work performed by a trained door 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 building official for wind load code requirements and building permit information.
18. For windloaded doors, the wind performance is achieved via the entire door system and component substitution is not authorized without express permission by Wayne Dalton.

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





CAUTION

IF ANY PART OF THE DOOR IS TO BE INSTALLED ONTO PRESERVATIVE-TREATED WOOD, PTFE-COATED OR STAINLESS STEEL FASTENERS MUST BE OBTAINED AND USED. REPLACEMENT FASTENERS MUST BE OF AT LEAST EQUAL STRENGTH AND SIZE AS ORIGINAL FASTENERS. IF THE ORIGINAL FASTENER WAS RED-HEAD, THE REPLACEMENT FASTENER MUST BE RED-HEAD ALSO. CONTACT WAYNE DALTON FOR FASTENER STRENGTH VALUES IF NEEDED.

WARNING

IMPACT GUNS ARE NOT RECOMMENDED. WHEN INSTALLING 5/16" LAG SCREWS USING AN ELECTRIC DRILL/ DRIVER, THE DRILL/ DRIVERS 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.

Potential Hazard	Effect	Prevention
 Moving door	 WARNING Could result in Death or Serious Injury	Keep people clear of opening while Door is moving. Do NOT allow children to play with the Door Opener. Do NOT operate a Door that jams or one that has a broken spring.
 High tension spring	 WARNING Could result in Death or Serious Injury	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. Installations, repairs and adjustments must be done by a trained door system technician using proper tools and instructions.

Removing an Existing Door and Preparing the Opening

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

WARNING

A POWERFUL SPRING RELEASING ITS ENERGY SUDDENLY CAN CAUSE SEVERE OR FATAL INJURY. TO AVOID INJURY, HAVE A TRAINED DOOR SYSTEMS TECHNICIAN, USING PROPER TOOLS AND INSTRUCTIONS, RELEASE THE SPRING TENSION.

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

IMPORTANT: IF YOU JUST REMOVED YOUR EXISTING DOOR OR YOU ARE INSTALLING A NEW DOOR, COMPLETE ALL STEPS IN PREPARING THE OPENING.

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

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

IMPORTANT: CLOSELY INSPECT JAMBS, HEADER AND MOUNTING SURFACE. ANY WOOD FOUND NOT TO BE SOUND, MUST BE REPLACED.

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

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

WEATHERSTRIPS (MAY NOT BE INCLUDED):

Depending on the size of your door, you may have to cut or trim the weatherstrips (if necessary) to properly fit into the header and jambs.

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

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

For 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.

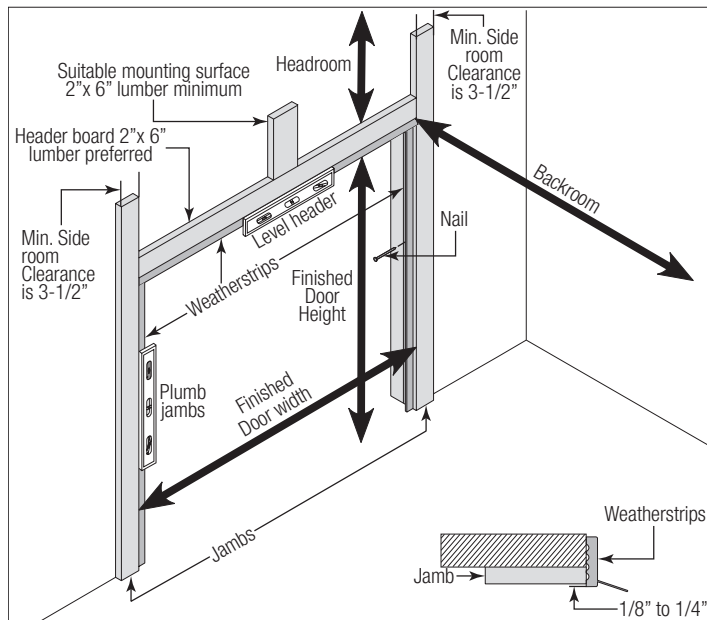
***NOTE:** For door heights from 10'1" to 14'0", refer to your operator manufacture installation instructions for appropriate depth into room.

BACKROOM REQUIREMENTS

Door Height	Track	Manual Lift	Motor Operated
6'0" to 7'0"	12", 14" Radius	102" (2591 mm)	125" (3175 mm)
7'1" to 8'0"	12", 14" Radius	114" (2896 mm)	137" (3480 mm)
8'1" to 9'0"	12", 14" Radius	126" (3200 mm)	168" (4267 mm)
9'1" to 10'0"	12", 14" Radius	138" (3505 mm)	168" (4267 mm)
10'1" to 12'0"	12", 14" Radius	162" (4115 mm)	See *NOTE
12'1" to 14'0"	12", 14" Radius	186" (4724 mm)	See *NOTE

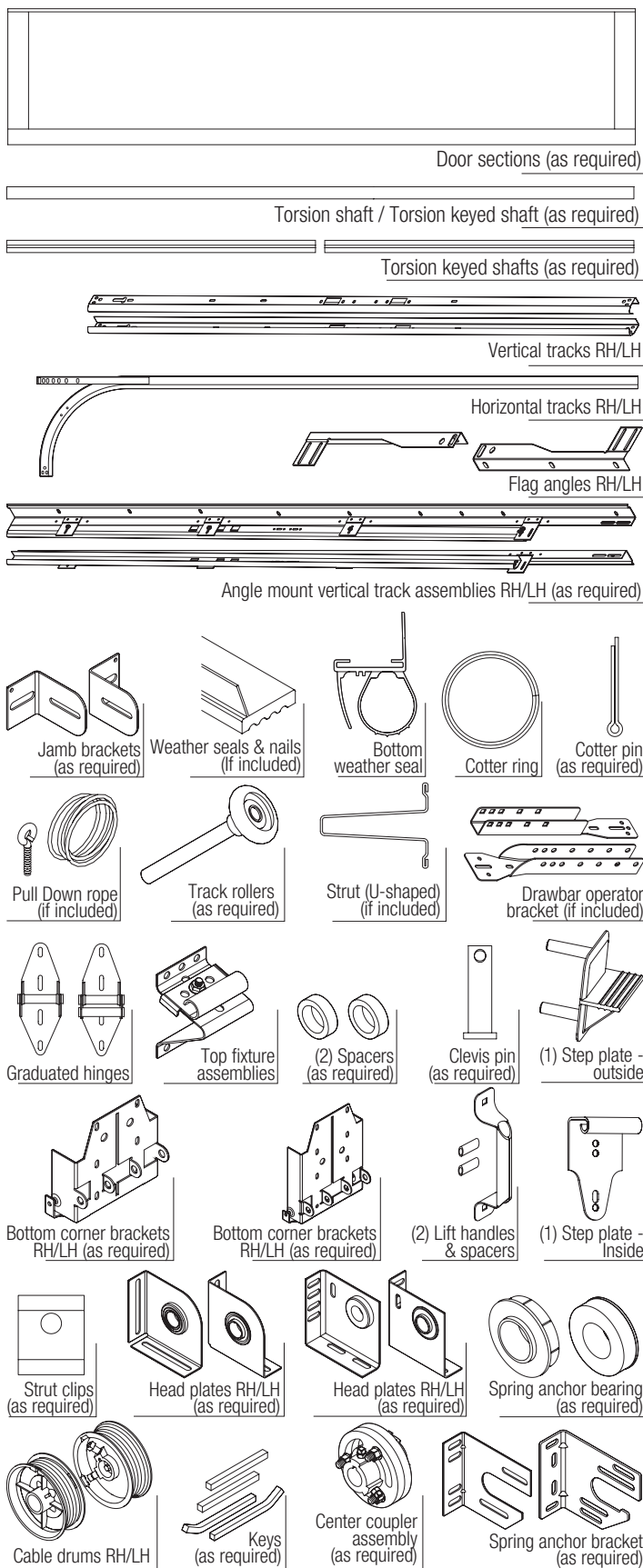
HEADROOM REQUIREMENTS

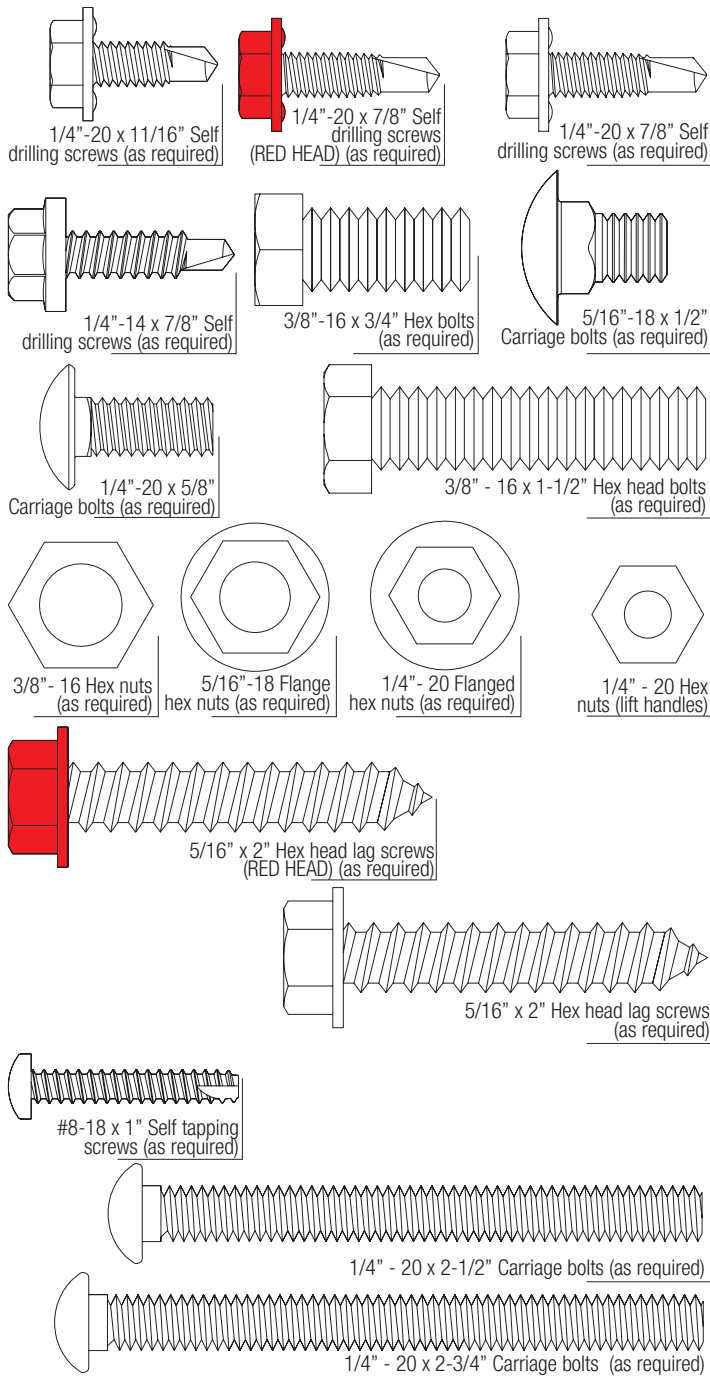
Track Type	Space Needed
12" Radius	13-1/2" (343 mm)
14" Radius	14-1/2" (368 mm)



Package Contents

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





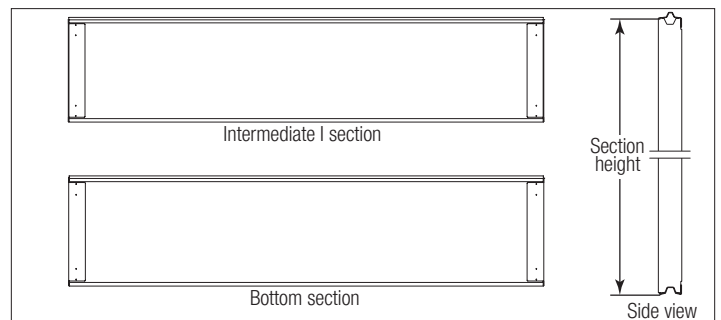
Door Section Identification

Door Section Identification								
Door Height	Section Type						Top	
	Bottom	Lock (sec- ond)	Intermediate Type					
			I (third)	II (fourth)	III (fifth)	IV (sixth)		V (sev- enth)
6'0"	18"	18"	18"	N/A				18"
6'3"	21"	18"	18"	N/A				18"
6'6"	21"	18"	18"	N/A				21"
6'9"	21"	21"	21"	N/A				18"
7'0"	21"	21"	21"	N/A				21"

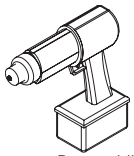
Door Section Identification								
Door Height	Section Type							
	Bottom	Lock (sec-ond)	Intermediate Type					Top
			I (third)	II (fourth)	III (fifth)	IV (sixth)	V (sev-enth)	
7'6"	18"	18"	18"	18"	N/A			18"
7'9"	21"	18"	18"	18"	N/A			21"
8'0"	21"	18"	18"	18"	N/A			21"
8'3"	21"	21"	18"	18"	N/A			21"
8'6"	21"	21"	21"	21"	N/A			18"
8'9"	21"	21"	21"	21"	N/A			21"
9'0"	18"	18"	18"	18"	18"	N/A		18"
9'3"	21"	18"	18"	18"	18"	N/A		18"
9'6"	21"	18"	18"	18"	18"	N/A		21"
9'9"	21"	21"	18"	18"	18"	N/A		21"
10'0"	21"	21"	21"	18"	18"	N/A		21"
10'3"	21"	21"	21"	21"	21"	N/A		18"
10'6"	21"	21"	21"	21"	21"	N/A		21"
10'9"	21"	18"	18"	18"	18"	18"	N/A	18"
11'0"	21"	18"	18"	18"	18"	18"		21"
11'3"	21"	21"	18"	18"	18"	18"		21"
11'6"	21"	21"	21"	18"	18"	18"		21"
11'9"	21"	21"	21"	21"	18"	18"		21"
12'0"	21"	21"	21"	21"	21"	21"		18"
12'3"	21"	21"	21"	21"	21"	21"	18"	21"
12'6"	21"	18"	18"	18"	18"	18"		21"
12'9"	21"	21"	18"	18"	18"	18"	18"	21"
13'0"	21"	21"	21"	18"	18"	18"	18"	21"
13'3"	21"	21"	21"	21"	18"	18"	18"	21"
13'6"	21"	21"	21"	21"	21"	18"	18"	21"
13'9"	21"	21"	21"	21"	21"	21"	21"	18"
14'0"	21"	21"	21"	21"	21"	21"	21"	21"

When installing your door you must use sections of the appropriate door height in the right stacking order. What sections heights you need to use and in what order depends on the height of your door.

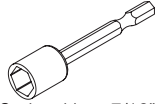
NOTE: Unless your door is five sections in height, you will not receive an Intermediate II section.



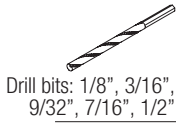
Tools Required



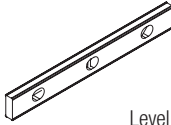
Power drill



Socket driver: 7/16"



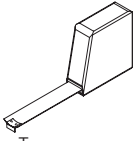
Drill bits: 1/8", 3/16",
9/32", 7/16", 1/2"



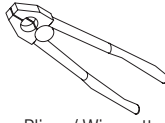
Level



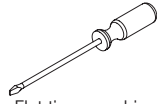
Ratchet wrench



Tape measure



Pliers / Wire cutters



Flat tip screwdriver



Phillips head screwdriver



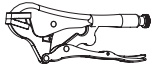
Wrenches: 3/8", 7/16",
1/2", 9/16", 5/8"



3" Ratchet
extension



Sockets: 7/16",
1/2", 9/16", 5/8"



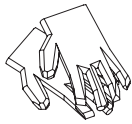
Vise clamps



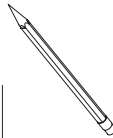
Hammer



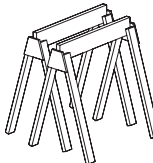
Step ladder



Leather gloves



Pencil



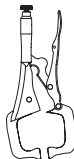
Saw horses



Safety glasses



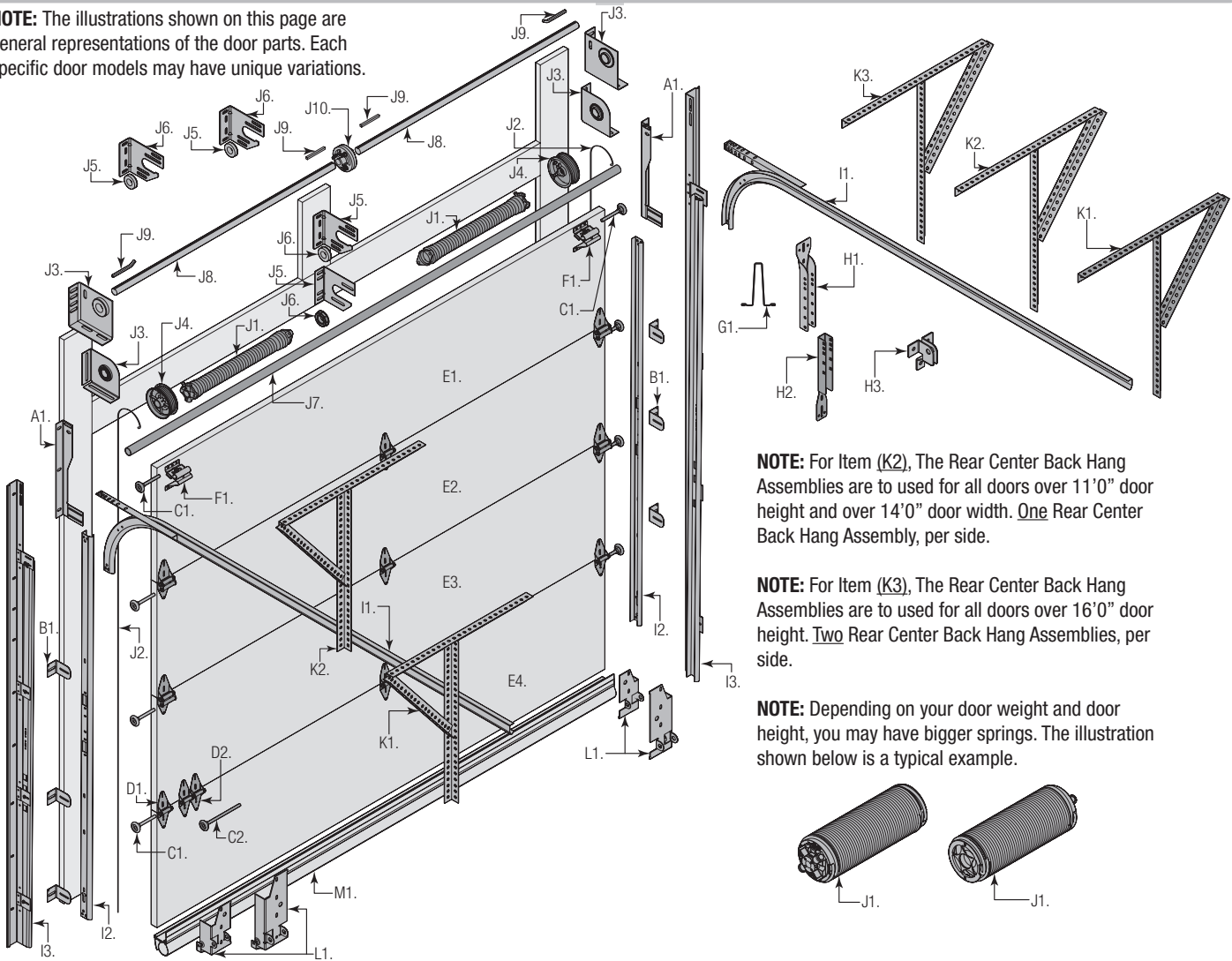
Approved winding bars



Locking pliers

BREAKDOWN OF PARTS

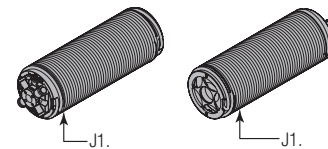
NOTE: The illustrations shown on this page are general representations of the door parts. Each specific door models may have unique variations.



NOTE: For Item (K2), The Rear Center Back Hang Assemblies are to be 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 (K3), The Rear Center Back Hang Assemblies are to be used for all doors over 16'0" door height. Two Rear Center Back Hang Assemblies, per side.

NOTE: Depending on your door weight and door height, you may have bigger springs. The illustration shown below is a typical example.



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

E. STACKED SECTIONS:

E1. Top Section
E2. Intermediate(s) Section
E3. Lock Section
E4. Bottom Section

F. TOP FIXTURES (AS REQUIRED):

F1. Top Fixture Assemblies
F2. Top Fixture Bases
F3. Top Fixture Slides

G. STRUT(S) (AS REQUIRED):

G1. Strut (U - shaped)

H. DRAWBAR OPERATOR BRACKET (FOR TROLLEY OPERATED DOORS):

H1. Top Halve Drawbar Operator Bracket
H2. Bottom Halve 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 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 Head Plates (As Required)
J4. Left Hand and Right Hand Cable Drums
J5. Spring Anchor Bracket (As Required)
J6. Spring Anchor Bearing (As Required)
J7. Torsion Shaft / Torsion Keyed Shaft (As Required)
J8. Torsion Keyed Shafts (As Required)
J8. Keys (As Required)
J10. Center Coupler Assembly (As Required)

K. REAR BACK HANGS:

K1. Left Hand and Right Hand Rear Back Hang Assemblies
K2 - K3. Left Hand and Right Hand Center Back Hang Assemblies

L. BOTTOM CORNER BRACKETS (AS REQUIRED):

L1. Left Hand and Right Hand Bottom Corner Brackets

M. BOTTOM WEATHER SEAL (AS REQUIRED):

M1. Bottom Weather Seal (Door Width)

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 Preparing Vertical Tracks

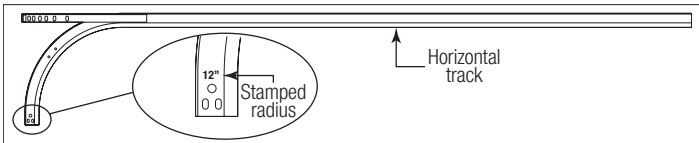
NOTE: If you have a wall angle track assembly, skip this step.

NOTE: Refer to Door Section Identification / Breakdown Of Parts, to determine if you have vertical tracks.

Vertical tracks may or may not have to be cut to the proper length, prior to installing.

IMPORTANT: VERTICAL TRACKS ARE NOT REQUIRED TO BE CUT DOWN IF YOU HAVE DOOR HEIGHTS 7'-0" OR 8'-0".

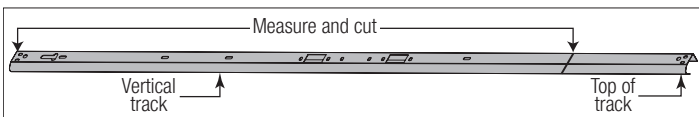
Determine the radius of your horizontal track.



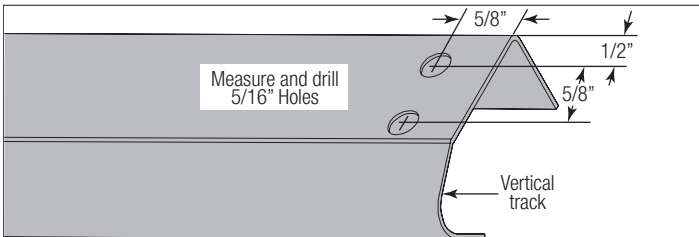
Refer to the vertical track cutting chart to determine the length needed to be cut off at the top of the vertical tracks. Using this measurement, measure and cut the vertical track off at the top, as shown. Remove any burrs from the cut edge of vertical track.

Vertical Track Cutting Chart

Horizontal Track Radius	Vertical Track Cut Length
10" Or 12" Radius	Door Height Minus 10"
14" Radius	Door Height Minus 8"



Now, two holes must be drilled into the top of the cut vertical track. Using the illustration shown below, mark and drill the hole locations using a 5/16" drill bit. Once the holes have been drilled, remove any burrs from the drilled holes. Repeat the same process for the other vertical track.



2 Attaching Flag Angles and Jamb Brackets To Vertical Tracks

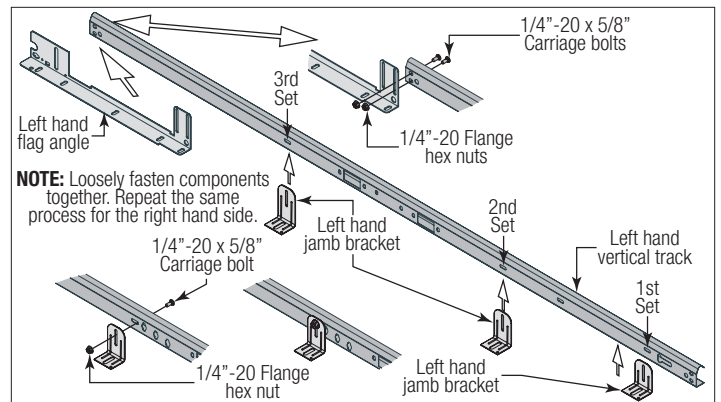
Hand tighten the left hand flag angle to the left hand vertical track using (2) 1/4" - 20 x 5/8" carriage bolts and (2) 1/4" - 20 flange hex nuts.

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 5/8" carriage 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 5/8" carriage bolt and (1) 1/4" - 20 flange hex nut.

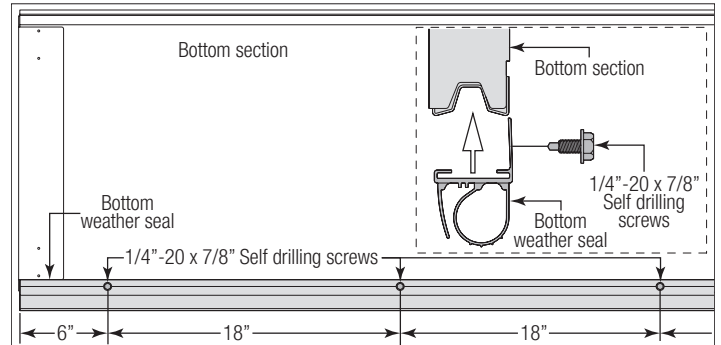
If a top jamb bracket was included, hand tighten it to vertical track using the lower hole of the hole/ slot pattern in the 3rd hole set and (1) 1/4" - 20 x 5/8" carriage bolt and (1) 1/4" - 20 flange hex nut.



3 Attaching Bottom Weather Seal

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

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



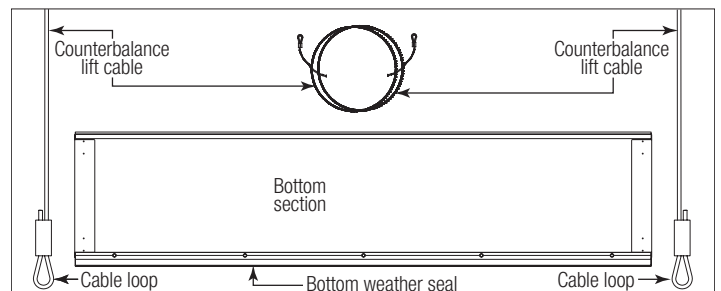
4 Attaching Bottom Corner Brackets

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

Uncoil the counterbalance lift cables. Secure the cable loop to the clevis pin and bottom corner bracket using a 5/16" flat washer and a cotter pin. Repeat for other bottom corner bracket.

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.

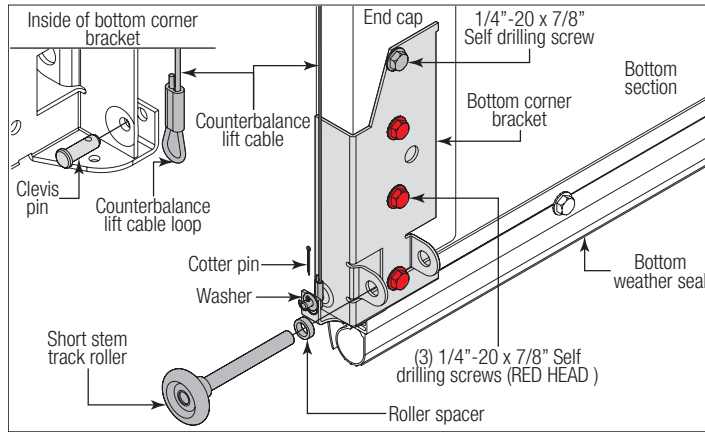
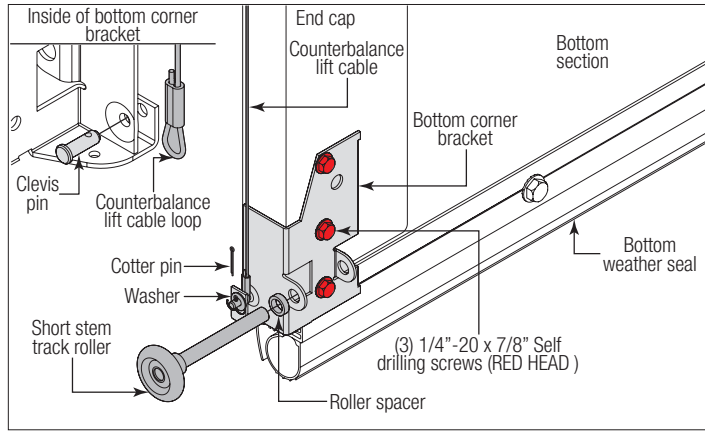


Position the left hand bottom corner bracket onto the bottom section. Attach the bottom corner bracket to the bottom section with (3) 1/4" - 20 x 7/8" RED HEAD self drilling screws and if applicable one more 1/4" - 20 x 7/8" self drilling screw. Repeat same process for the right hand side.

IMPORTANT: THE 1/4" - 20 X 7/8" RED HEAD SELF DRILLING SCREWS MUST BE MUST BE INSTALLED THROUGH THE HOLES OF THE BOTTOM CORNER BRACKETS, AS SHOWN.

Insert a short stem track roller with a roller spacer (if applicable) into the bottom corner bracket. Repeat for other side.

NOTE: Verify bottom weather seal is aligned with bottom section. If there is more than 1/2" excess weather seal on either side, trim weather seal even with bottom section.



5

Attaching Hinges

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 and top section. Measure your sections to make sure they are the correct height as indicated on the chart.

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

NOTE: 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: Depending on the size of your door, one or more sections may require a strut. Sections noted with "N/A" in the strutting schedule, do not require a strut. All strut(s) are placed at the top of the section(s).

Using sawhorses, lay sections together on a flat smooth surface. Ensure the appropriate hinges are on top of their corresponding sections.

Locate the bottom section, (2) #1 graduated end hinges for the end stiles and depending on the width of your door, enough #1 center hinge(s) for each of the pre-marked center hinge locations (center hinge locations are marked along the top portion of the section). Referring to the strutting schedule below, determine how many struts your door needs and on what sections they are needed to be installed.

Door Height < = 7' 0" (4 Sections High), Strutting Schedule

Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Top	Solid	N/A	2" Strut	
	Windows	2" Strut		

Door Height < = 7' 0" (4 Sections High), Strutting Schedule

Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Intermediate I (third)	Solid	N/A		
	Windows	2" Strut		
Lock (second)	Solid	N/A		
	Windows			
Bottom	Solid	N/A		2" Strut
	Windows			

Door Height 7' 6" - 8' 9" (5 Sections High), Strutting Schedule

Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Top	Solid	N/A	2" Strut	
	Windows	2" Strut		
Intermediate II (fourth)	Solid	N/A		
	Windows	2" Strut		
Intermediate I (third)	Solid	N/A	2" Strut	
	Windows	2" Strut		
Lock (second)	Solid	N/A		
	Windows			
Bottom	Solid	N/A		2" Strut
	Windows			

Door Height 9' 0" - 10' 6" (6 Sections High), Strutting Schedule

Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Top	Solid	N/A	2" Strut	
	Windows	2" Strut		
Intermediate III (fifth)	Solid	N/A	2" Strut	
	Windows	2" Strut		
Intermediate II (fourth)	Solid	N/A	N/A	
	Windows	2" Strut		
Intermediate I (third)	Solid	N/A	N/A	
	Windows	2" Strut		
Lock (second)	Solid	N/A		2" Strut
	Windows			
Bottom	Solid	N/A		2" Strut
	Windows			

Door Height 10' 0" - 12' 3" (7 Sections High), Strutting Schedule

Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Top	Solid	N/A	2" Strut	
	Windows	2" Strut		
Intermediate IV (sixth)	Solid	N/A		2" Strut
	Windows	2" Strut		
Intermediate III (fifth)	Solid	N/A		N/A
	Windows	2" Strut		
Intermediate II (fourth)	Solid	N/A		2" Strut
	Windows	2" Strut		
Intermediate I (third)	Solid	N/A		N/A
	Windows	2" Strut		

Door Height 10' 0" - 12' 3" (7 Sections High), Strutting Schedule				
Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Lock (second)	Solid	N/A		2" Strut
	Windows			
Bottom	Solid	N/A		2" Strut
	Windows			

Door Height 12' 6" - 14' 0" (8 Sections High), Strutting Schedule				
Type Of Sections	Solid or Windows	Door Width		
		< = 10'0"	12'0"	13'0" Through 18'0"
Top	Solid	N/A	2" Strut	
	Windows	2" Strut		
Intermediate V (seventh)	Solid	N/A		2" Strut
	Windows	2" Strut		
Intermediate IV (sixth)	Solid	N/A		N/A
	Windows	2" Strut		
Intermediate III (fifth)	Solid	N/A		2" Strut
	Windows	2" Strut		
Intermediate II (fourth)	Solid	N/A		2" Strut
	Windows	2" Strut		
Intermediate I (third)	Solid	N/A		N/A
	Windows	2" Strut		
Lock (second)	Solid	N/A	N/A	2" Strut
	Windows			
Bottom	Solid	N/A	2" Strut	
	Windows			

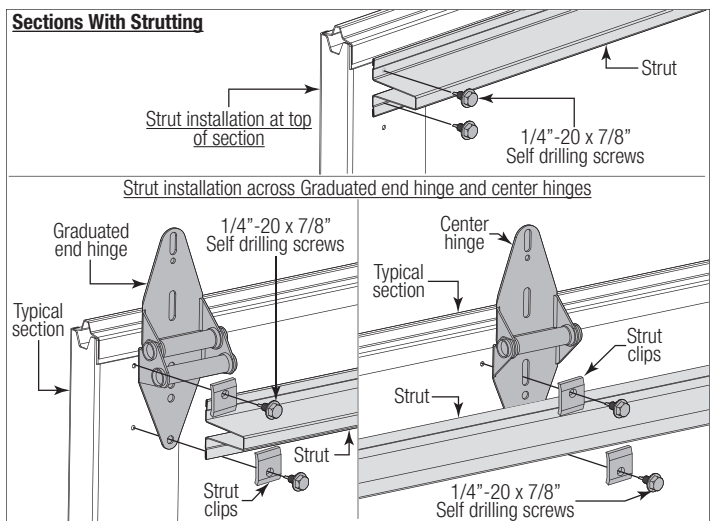
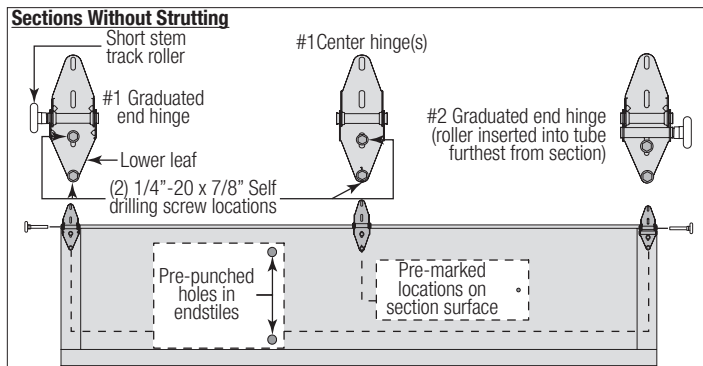
INSTALLATION ON ALL SECTIONS (EXCEPT TOP SECTION): Place the strut (if applicable) over the lower hinge leaf and over the top portion of the section. Center the strut side to side on the section surface, as shown. Secure the ends of the strut to the section using (2) 1/4" - 20 x 7/8" self drilling screws and (2) strut clips at each end hinge location. Next, secure each center hinge(s) and strut to the section using (2) 1/4" - 20 x 7/8" self drilling screws and (2) strut clips, as shown. Repeat the same process for the strutting attachment for all remaining sections

INSTALLATION ON TOP SECTION: Place the strut on the top edge of the top section, as shown. Center the strut side to side on the section. Secure the strut to the section using (2) 1/4" - 20 x 7/8" self drilling screws at each end hinge location and (2) 1/4" - 20 x 7/8" self drilling screws at each center hinge marking location.

IMPORTANT: ONCE THE 1/4" - 20 X 7/8" SELF DRILLING SCREWS ARE SNUG AGAINST THE LOWER HINGE LEAF, TIGHTEN AN ADDITIONAL 1/4 TO 1/2 TURN TO RECEIVE MAXIMUM DESIGN HOLDING POWER.

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

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



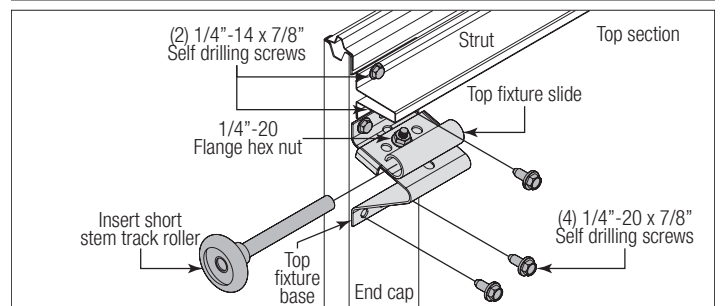
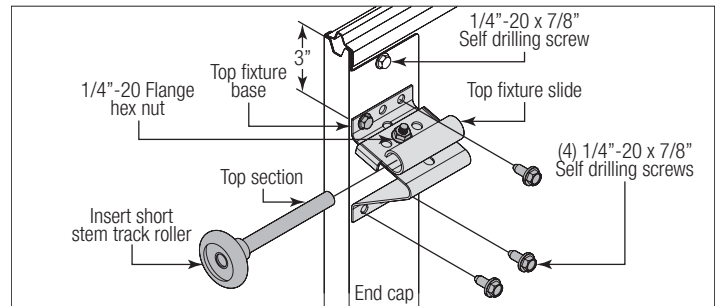
6 Attaching Top Fixtures To Top Section

Starting on the left hand side, align the top fixture base 3" down from the top section or below strut and even with the edge of the top section. The slotted half of the top fixture base should be facing upwards. Fasten to section using (4) 1/4" - 20 x 7/8" self drilling screws. Insert short stem track roller into top fixture slide. Repeat same process for other right hand side.

IMPORTANT: If no strut was installed on the top section, place (1) 1/4" - 20 x 7/8" self drilling screw into the top pre-punched hole in each endstile of the top section.

NOTE: The top fixture slide 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 1/4" - 20 flange hex nuts.



7 Attaching Step Plate

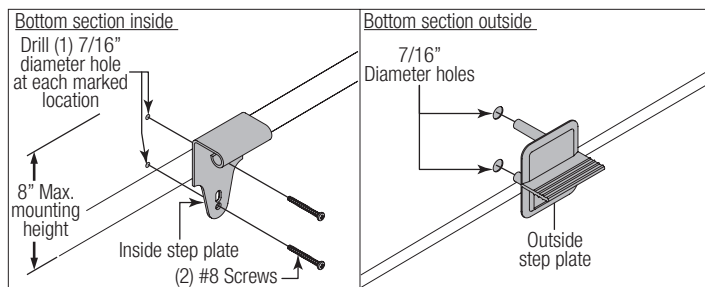
On the inside of the bottom section, locate the vertical center of the door. Center the inside step plate vertically no higher than 8" from the bottom of the door to the top of the step plate.

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

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

NOTE: Be extremely careful to keep drill straight when drilling through the section.

Now insert the outside step plate into the holes through the front of the door, mounting the two step plates back to back. Secure step plates together with two No. 8 screws through the inside step plate and into the outside step plate.



8

Attaching Lift Handles

Using sawhorses, lay the bottom and lock sections together on a flat smooth surface. Ensure the hinges are on top of their corresponding sections.

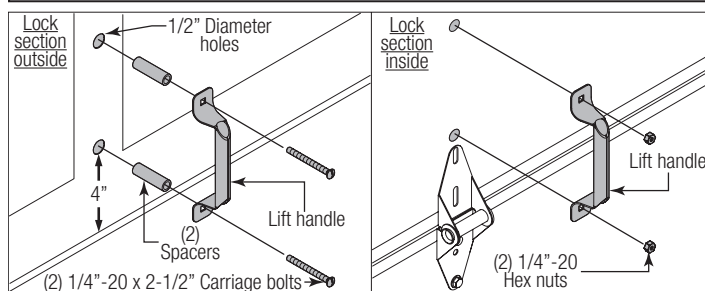
Locate the vertical center of the lock (second) section of the door and position the lift handle's bottom hole 4" from the bottom of the lock section along the vertical center on the outside of the door. Use the holes in the lift handle as a template to mark the hole locations.

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

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

WARNING

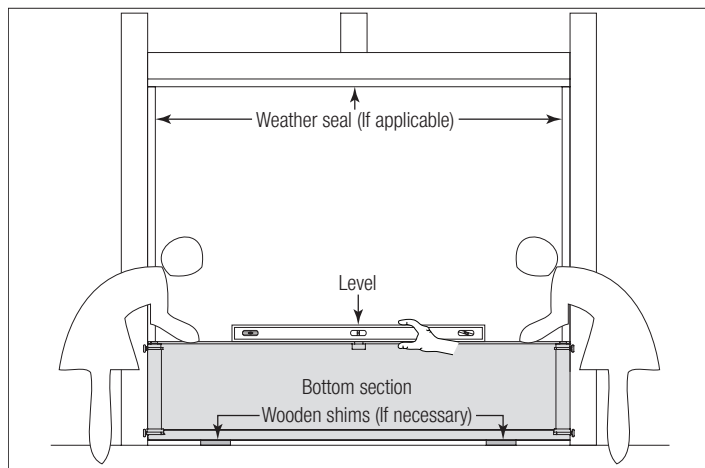
TO AVOID POSSIBLE INJURY, LIFT HANDLES THAT ARE INSTALLED WITHIN 4 INCHES (102MM) OF A SECTION INTERFACE SHALL PROMOTE VERTICAL ORIENTATION OF THE HAND.



9

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.



10

Attaching Vertical Tracks To Jambs

NOTE: Depending on your door, you may have Fully Adjustable Flag Angles 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.

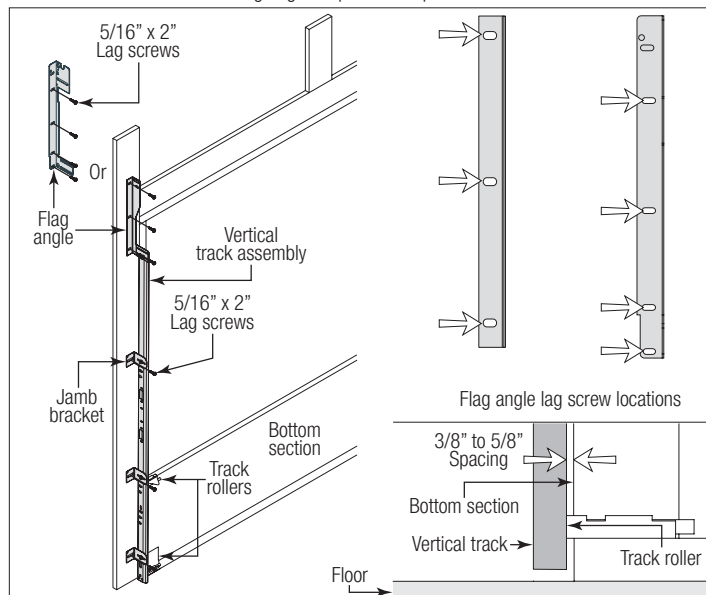
IMPORTANT: IF YOUR DOOR IS TO BE INSTALLED PRIOR TO A FINISHING CONSTRUCTION OF THE BUILDING'S FLOOR, THE VERTICAL TRACKS AND THE DOOR BOTTOM SECTION ASSEMBLY SHOULD BE INSTALLED SUCH THAT WHEN THE FLOOR IS CONSTRUCTED, NO DOOR OR TRACK PARTS ARE TRAPPED IN THE FLOOR CONSTRUCTION.

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.

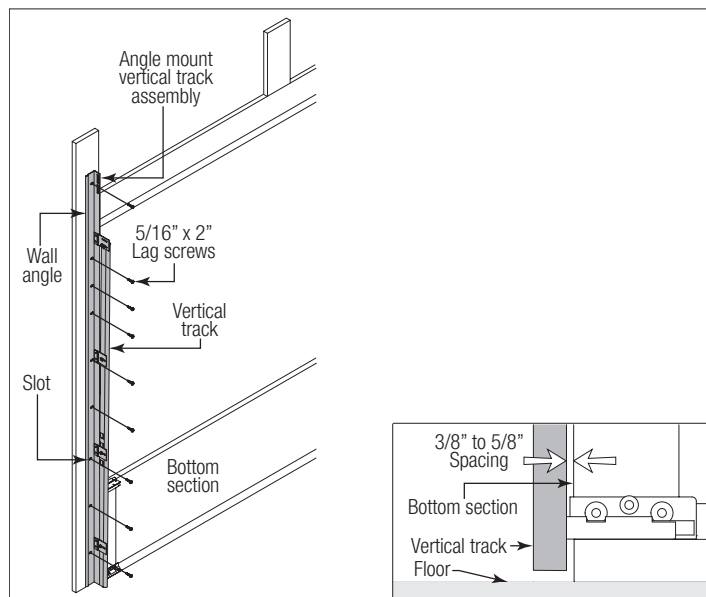
NOTE: Make sure the counterbalance lift cable is located between the track rollers and the door jamb.

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 2" 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 ANGLE MOUNT VERTICAL TRACK ASSEMBLY: Loosely fasten the slots in the wall angle to the jamb using 5/16" x 2" 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.



11

Stacking Sections

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

with each graduated end hinge increasing as the sections are stacked.

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

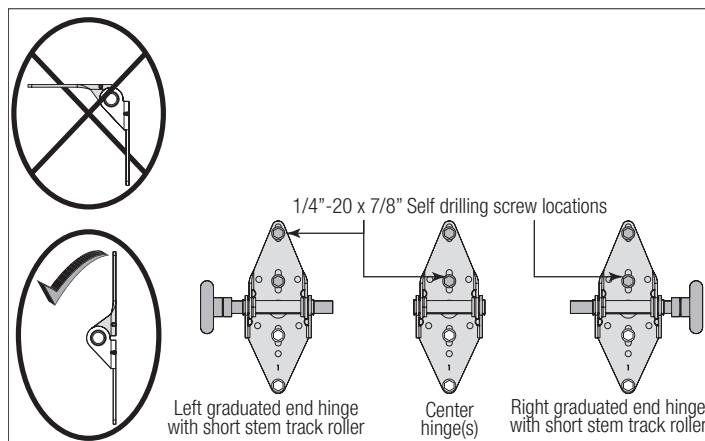
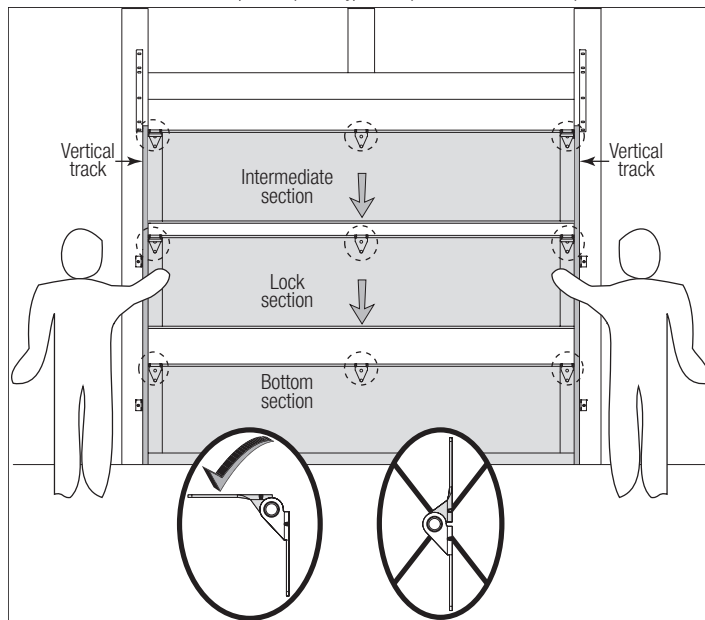
Place track rollers into graduated end hinges of remaining sections.

With assistance, lift second section and guide the track rollers into the vertical tracks. Lower section until it is seated against bottom section. Flip hinges up. Fasten center hinge(s) first; then end hinges last using 1/4" - 20 x 7/8" self-drilling screws.

Repeat same process for other sections, except top section.

IMPORTANT: PUSH & HOLD THE HINGE LEAF SECURELY AGAINST THE SECTIONS WHILE SECURING WITH 1/4" - 20 X 7/8" SELF-DRILLING SCREWS. THERE SHOULD BE NO GAP BETWEEN THE HINGE LEAVES AND THE SECTIONS.

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



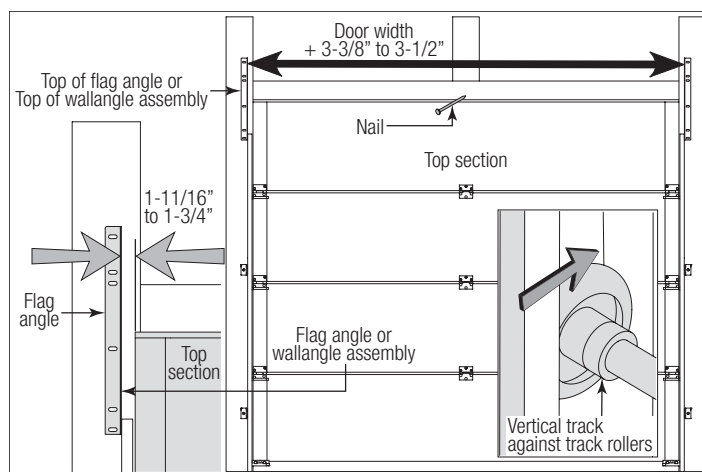
12 Stacking Top Section

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 FULLY ADJUSTABLE 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 or 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.



13 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, THEN USE THE ONE PROVIDED BY YOUR OPERATOR MANUFACTURER). THE INSTALLATION OF THE OPERATOR MUST BE ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND FORCE SETTINGS MUST BE ADJUSTED PROPERLY.

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

NOTE: Refer to illustrations to determine which top fixtures were supplied with your door. Follow the corresponding step below:

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.

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

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

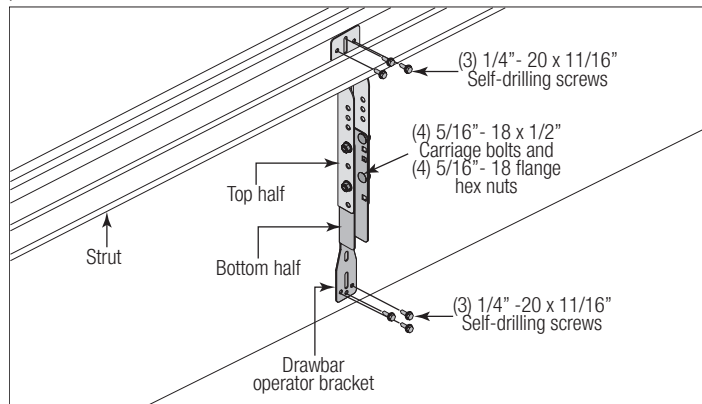
NOTE: For retro fit applications, the drawbar operator bracket assembly must be aligned with an existing operator.

Slide the top half of the drawbar operator bracket 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 11/16" self drilling screws.

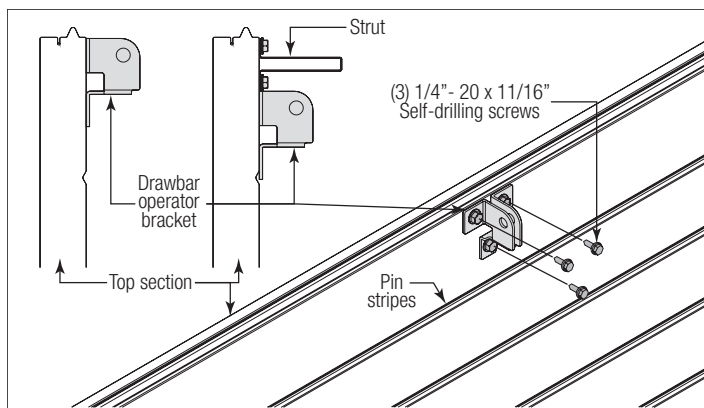
NOTE: If your door lacks a strut on the top section, ignore the previous paragraph.

Attach the bottom half of the drawbar operator bracket to the section surface using (3) 1/4" - 20 x 11/16" self drilling screws.

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



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 11/16" self-drilling screws (as shown).



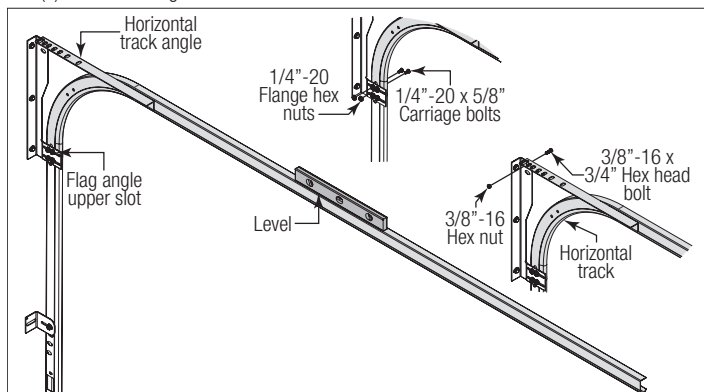
14 Attaching Horizontal Tracks

NOTE: Depending on your door, you may have Fully Adjustable Flag Angles 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.

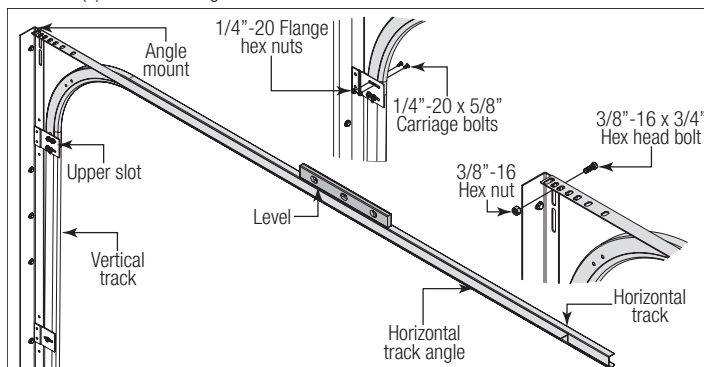
WARNING

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 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 5/8\" carriage bolts and (2) 1/4\" - 20 flange hex nuts.

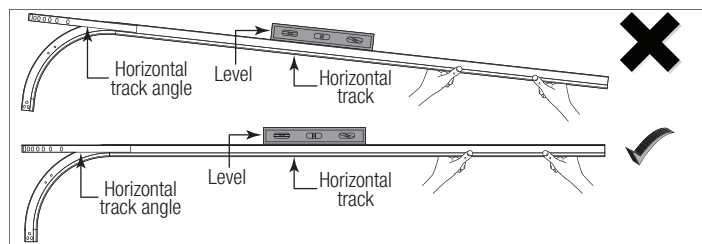


IF YOU HAVE ANGLE MOUNT: To install horizontal track, place the curved end over the top track roller of the top section. Align the bottom of the horizontal track with the top of the vertical track. Tighten the horizontal track to the angle mount with (2) 1/4\" - 20 x 5/8\" carriage bolts and (2) 1/4\" - 20 flange hex nuts.



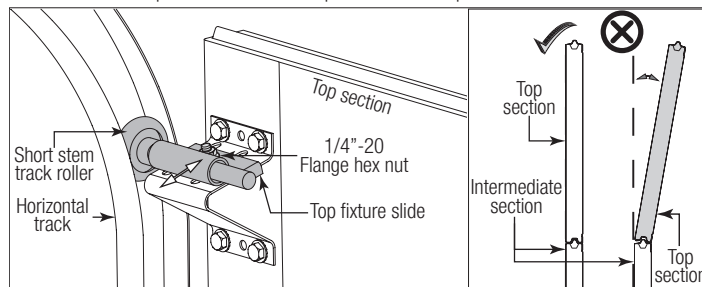
Next level the horizontal track assembly and bolt the horizontal track angle to the first encountered slot in the flag angle / angle mount using (1) 3/8\" - 16 x 3/4\" hex head bolt and (1) 3/8\" - 16 hex nut. Repeat for other side. Remove nail that was temporarily holding the top section in position.

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



15 Adjusting Top Fixtures

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, out against the horizontal track. Maintaining the slide's position, tighten the 1/4\" - 20 flange hex nut to secure the top fixture slide to the top fixture base. Repeat for other side.



COUNTERBALANCE INSTALLATION INSTRUCTIONS

16 Attaching Head Plates

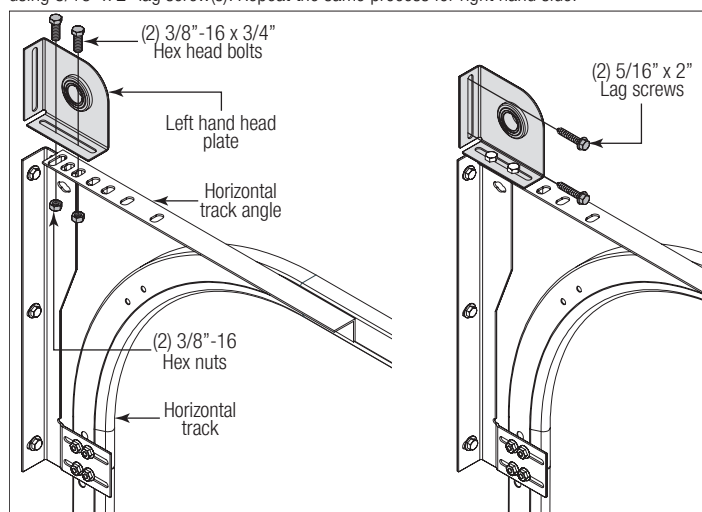
NOTE: Refer to Package Contents / Breakdown of Parts, to determine which head plates you have.

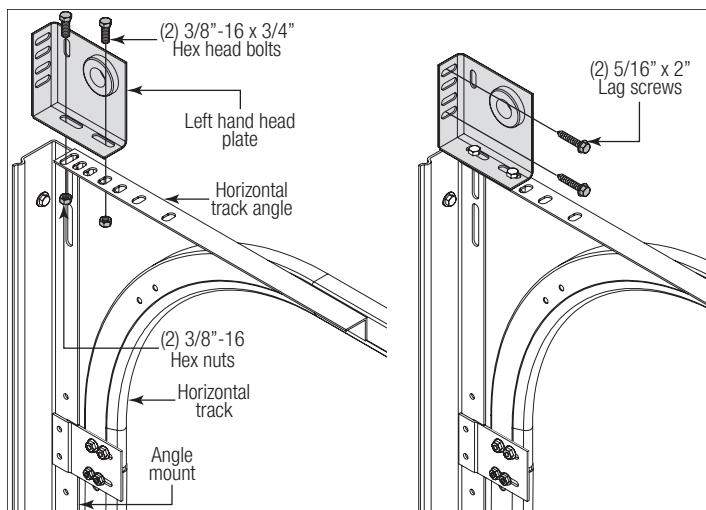
NOTE: Prior to fastening head plates into the door jamb, pilot drill using a 3/16\" drill bit.

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

NOTE: Head plates are right and left hand.

Attach the left hand head plate to the left hand horizontal track angle using (2) 3/8\" - 16 x 3/4\" hex head bolts and (2) 3/8\" - 16 nuts. Secure the top of the head plate to the jamb using 5/16\" x 2\" lag screw(s). Repeat the same process for right hand side.





17

Attaching Spring Anchor Bracket to Wall

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

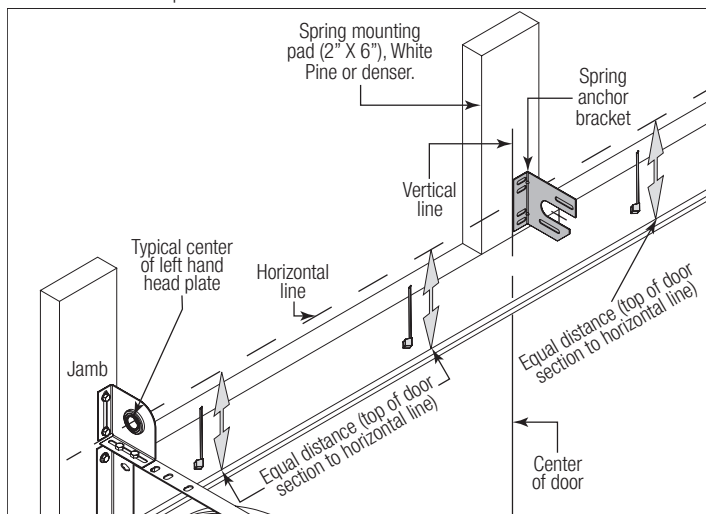
NOTE: Drill 3/16\"

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 17\"

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

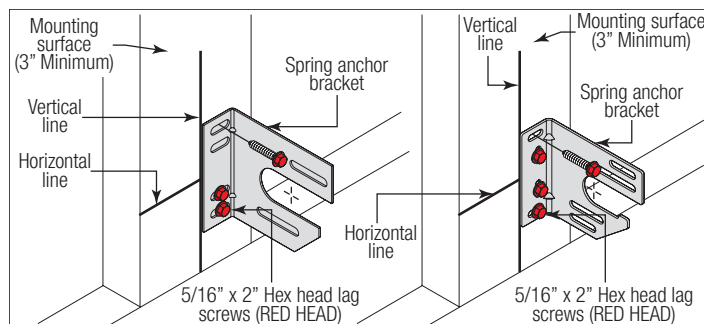
NOTE: If needed, measure the diameter of your springs. If you have a one piece shaft with 3-3/4\"

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 head plates, downwards, to the top of 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.



IF YOUR DOOR DID NOT COME WITH A CENTER COUPLER ASSEMBLY OR TORSION SPRINGS LESS THAN 3-3/4\" Mark a vertical pencil line on the mounting surface above the door, at the center. Align the edge of the spring anchor bracket with the vertical pencil line and the center of the spring anchor bracket with the horizontal pencil line; this is to ensure the torsion shaft is level between the spring anchor bracket and head plates.

NOTE: On some single spring doors, the spring can be longer than half the opening width. If your spring is longer, then the spring anchor 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 spring anchor bracket location.

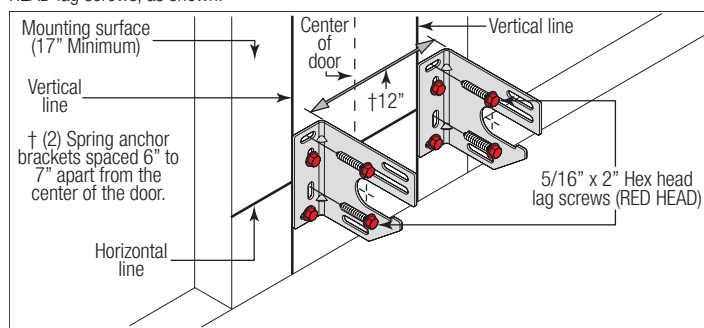


IF YOUR DOOR DID COME WITH A CENTER COUPLER ASSEMBLY OR 3-3/4\" Mark a vertical pencil line on the mounting surface above the door, at the center. Split the difference up and position the (2) spring anchor brackets apart from each other. Mark two vertical pencil lines, one for each spring anchor bracket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

NOTE: If your door came with a center coupler assembly or if it utilizes 3-3/4\"

NOTE: If your door has (4) springs, split the distance between the center of the door and the head plate on each side to locate the intermediate spring anchor brackets.

Attach each of the spring anchor bracket(s) to the mounting surface, using 5/16\"



18

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.

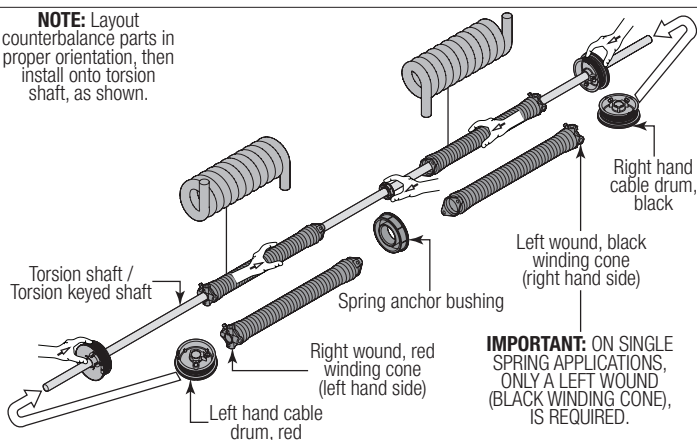
IMPORTANT: ON SINGLE SPRING APPLICATIONS, ONLY A LEFT WOUND (BLACK WINDING CONE), IS REQUIRED.

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 spring anchor bearing onto the torsion shaft / torsion keyed shaft followed by the torsion springs and cable drums.

IMPORTANT: THE SPRING ANCHOR BEARING, TORSION SPRINGS, AND CABLE DRUMS MUST BE POSITIONED, AS SHOWN.

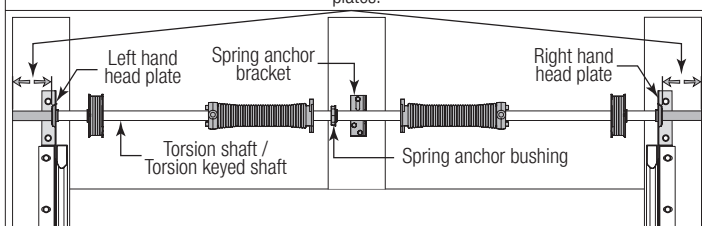
NOTE: Layout counterbalance parts in proper orientation, then install onto torsion shaft, as shown.



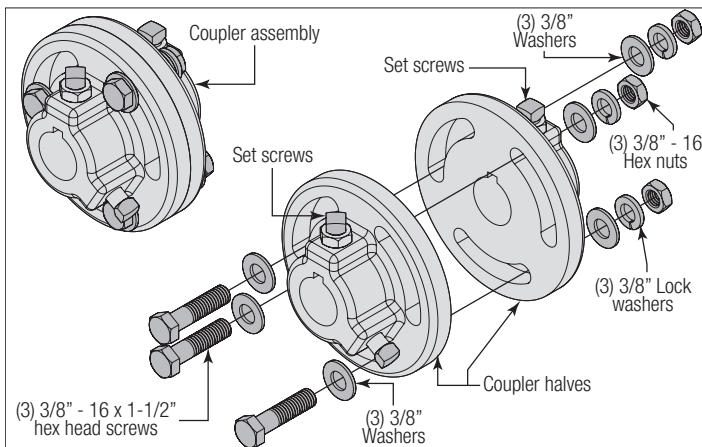
IMPORTANT: ON SINGLE SPRING APPLICATIONS, ONLY A LEFT WOUND (BLACK WINDING CONE), IS REQUIRED.

With assistance, pick up the torsion spring assembly and slide one end of the torsion shaft / torsion keyed shaft through one head plate. Lay the middle of the torsion shaft / torsion keyed shaft into the spring anchor bracket. Slide the other end of the torsion shaft / torsion keyed shaft into the other head plate.

NOTE: Position the torsion shaft so that equal amounts of the shaft extend from each head plates.



IF YOU 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 spring anchor 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, spring anchor 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, spring anchor bearings onto the torsion keyed shafts followed by the torsion springs and the cable drums, as shown.

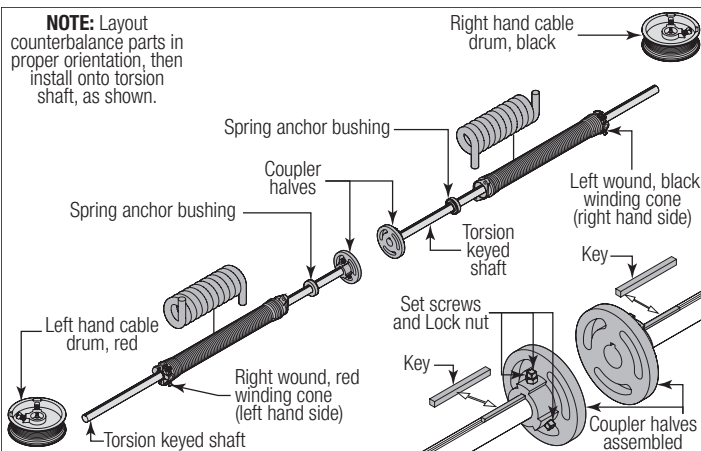
IMPORTANT: THE COUPLER HALVES, SPRING ANCHOR BEARINGS, TORSION SPRINGS, CABLE DRUMS MUST BE POSITIONED, AS SHOWN.

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.

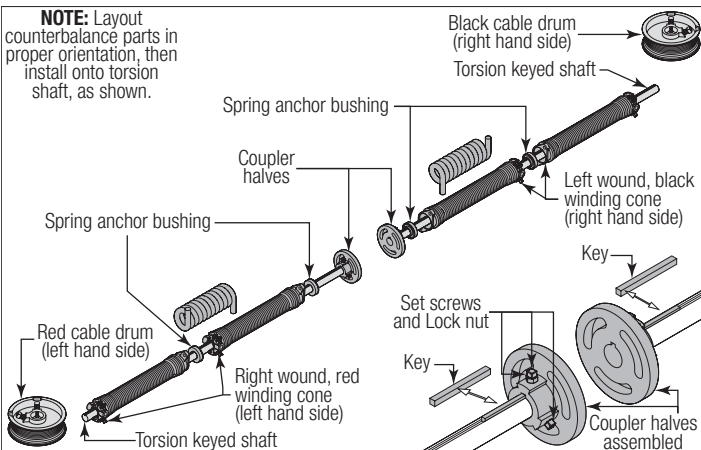
NOTE: Tighten the set screws to 14-15 ft-lbs (Once set screws contact the shaft, tighten screws an additional 1/2 turn).

Repeat the same process for the other coupler half.

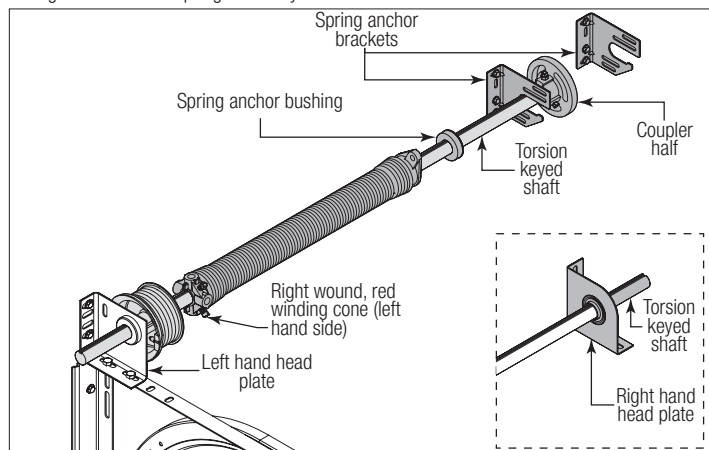
NOTE: Layout counterbalance parts in proper orientation, then install onto torsion shaft, as shown.



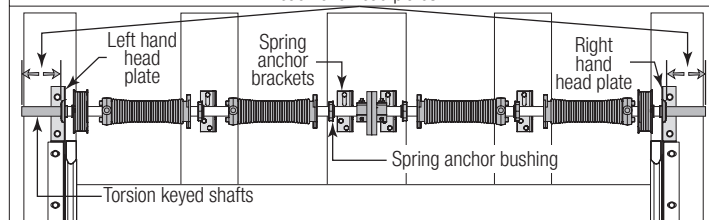
NOTE: Layout counterbalance parts in proper orientation, then install onto torsion shaft, as shown.



With assistance and starting on the left hand side of door, pick up the left hand torsion spring assembly and slide one end of the torsion keyed shaft through the head plate. Lay the other side of the torsion keyed shaft into the spring anchor bearing. Repeat the same process for the right hand torsion spring assembly.



NOTE: Position both torsion keyed shafts so that equal amounts of the shafts extend from each end head plates.



19 Attaching Springs to Spring Anchor Bracket

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

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 CONE(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 spring anchor brackets. If your spring diameter is either 2" or 2-5/8", then two springs will share the same spring anchor bracket, unless a coupler assembly is provided.

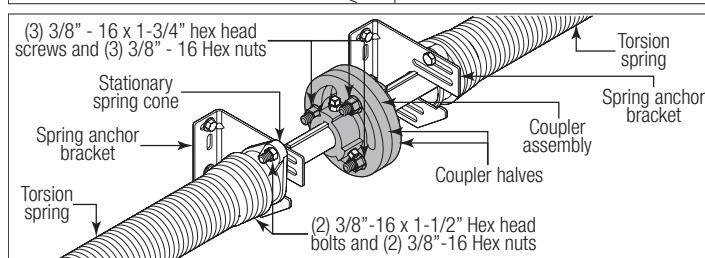
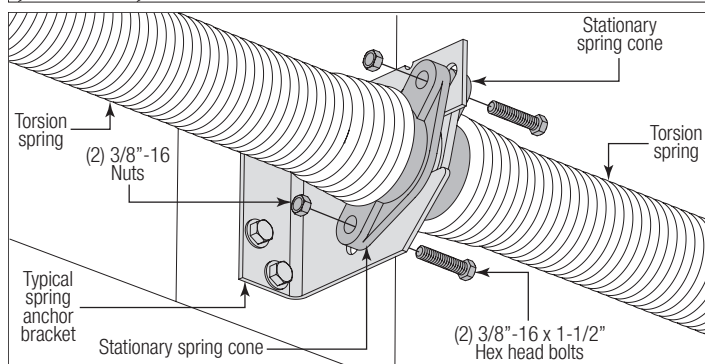
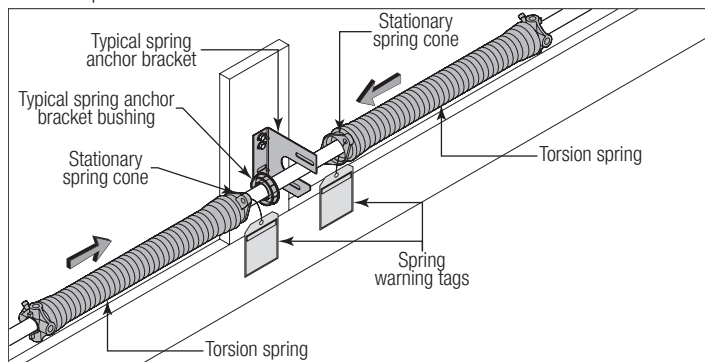
IF YOU DON'T HAVE A COUPLER ASSEMBLY: Slide spring anchor bearing into the spring. Align the stationary spring cone with the holes in the spring anchor bracket. Secure the torsion spring(s) to the spring anchor bracket with (2) 3/8" - 16 x 1-1/2" hex head bolts and (2) 3/8" - 16 nuts.

IMPORTANT: NEVER USE MORE THAN ONE BEARING WHEN ATTACHING TWO SPRINGS TO ONE SPRING ANCHOR BRACKET.

IF YOU HAVE A COUPLER ASSEMBLY: Slide spring anchor bracket bearing into the spring. Align the stationary spring cone with the holes in the spring anchor bracket. Secure the torsion spring to the spring anchor 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 spring anchor bracket.

At the middle of the two spring anchor brackets, re-assemble 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 head plate.



20

Attaching Counterbalance Lift Cables

Starting on the left hand side, thread the counterbalance lift cable up and around the front side of the left hand cable drum.

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.

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.

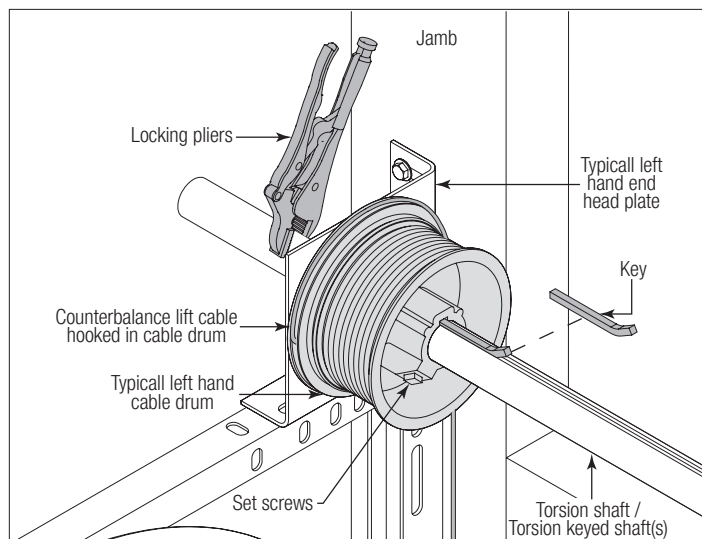
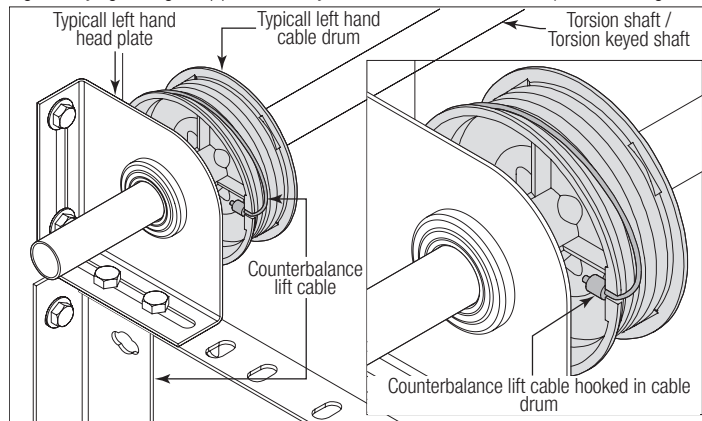
Rotate the left hand drum and torsion shaft until counterbalance lift cable is taut. Now attach locking pliers to the torsion shaft and brace locking pliers up against jamb to keep counterbalance lift cable taut. Tighten the set screws in the drum to 14-15 ft-lbs of torque (once set screws contact the torsion shaft, tighten screws an additional 1/2 turn for solid shaft and one full turn for tubular shaft). 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.

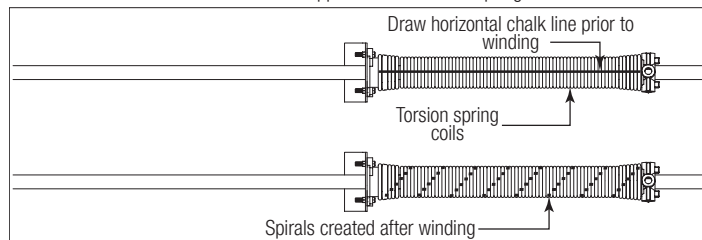


21

Chalking Torsion Spring(s)

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

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.



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):

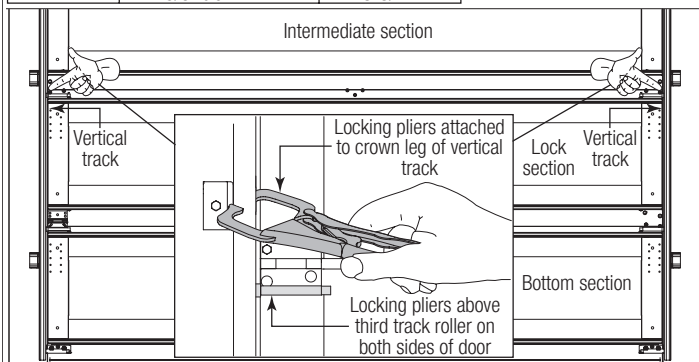
- Counterbalance lift cables are secured at bottom corner brackets.
- Counterbalance lift cables are routed unobstructed to cable drums.
- Counterbalance lift cables are correctly installed and wound onto cable lift drums.
- Counterbalance lift cables are taut and have equal tension on both sides.
- Cable lift drums are against head plates and set screws are tight.
- Torsion spring or springs are installed correctly.
- 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.

Winding Bars (Steel Rods)	Size Of Winding Bar (Inches)	Spring Inner Diameter Used On
	1/2" dia. x 18"	2" and 2-5/8"
	5/8" dia. x 24"	3-3/4"



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. Reseat the winding rod in the socket. Start over at Step #1.

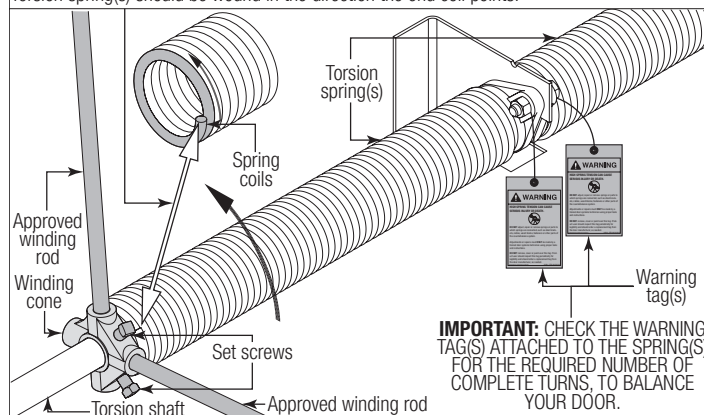
4. When the winding rod is vertical above the winding cone, insert another winding rod into one of the other sockets, being careful to seat it snugly and at full socket depth.

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 SET SCREWS IN THE WINDING CONE TO 14-15 FT-LBS OF TORQUE (ONCE SET SCREWS CONTACT THE TORSION SHAFT, TIGHTEN SCREWS AN ADDITIONAL 1/2 TURN FOR SOLID SHAFT AND ONE FULL TURN FOR TUBULAR SHAFT).

Torsion spring(s) should be wound in the direction the end coil points.



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

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

WARNING

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

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

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

Perforated Angle Gauge Weight Limitations:	
Perforated Angle Gauge	Door Balance Weight
2" x 2" x 12 Gauge	800 lbs. to 1600 lbs.
1-1/4" x 1-1/4" x 13 Gauge	305 lbs. to 610 lbs.
1-1/4" x 1-1/4" x 15 Gauge	220 lbs. to 440 lbs.
1-1/4" x 1-1/4" x 16 Gauge	175 lbs. to 350 lbs.

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

WARNING

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

WARNING

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

IMPORTANT: DO NOT SUPPORT THE WEIGHT OF THE DOOR ON ANY PART OF THE REAR

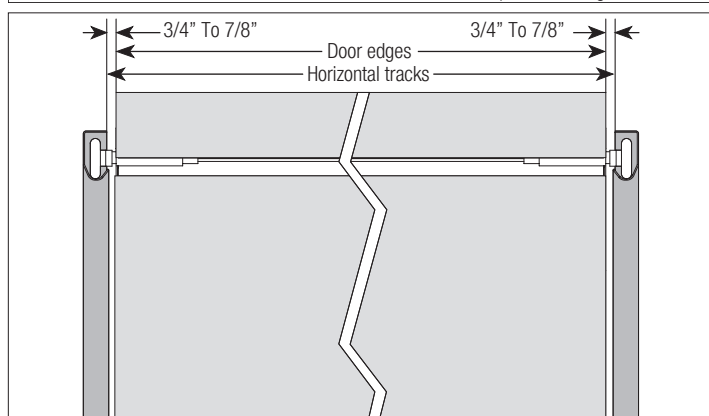
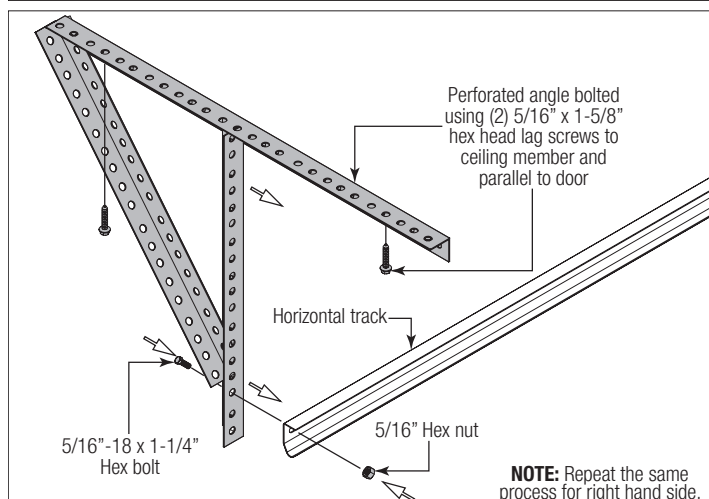
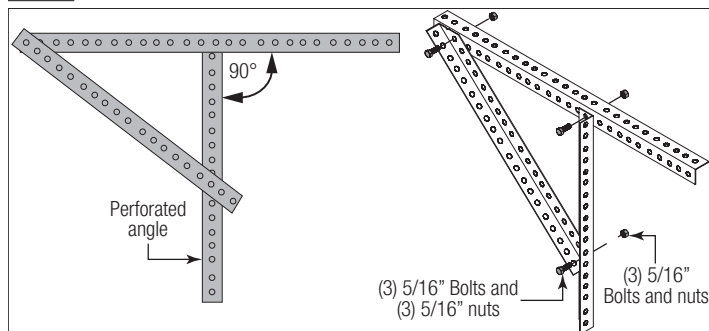
BACK HANGS THAT CANTILEVERS 4" OR MORE BEYOND A SOUND FRAMING MEMBER.

NOTE: 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.**



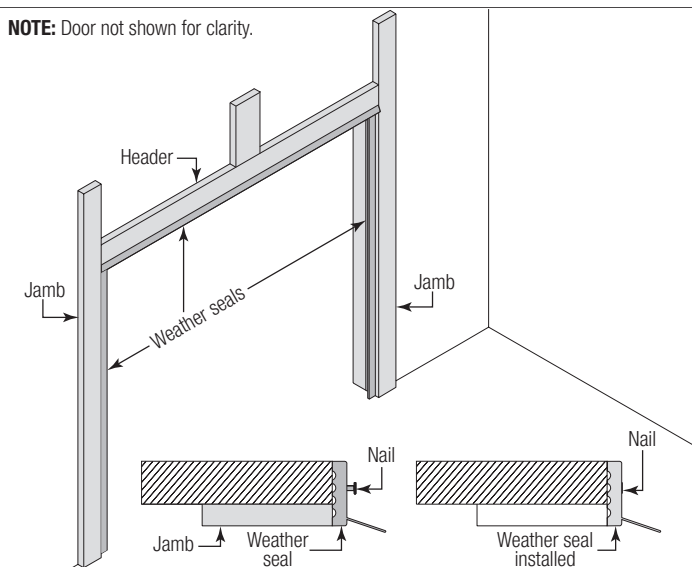
25

Attaching Weather Seal

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

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

NOTE: Door not shown for clarity.



26

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. 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.

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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).

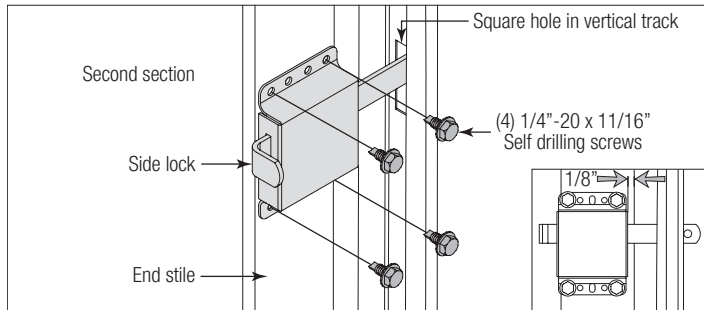
NOTE: Because of different configurations, some labels may require minor relocations.

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Inside Lock

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

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

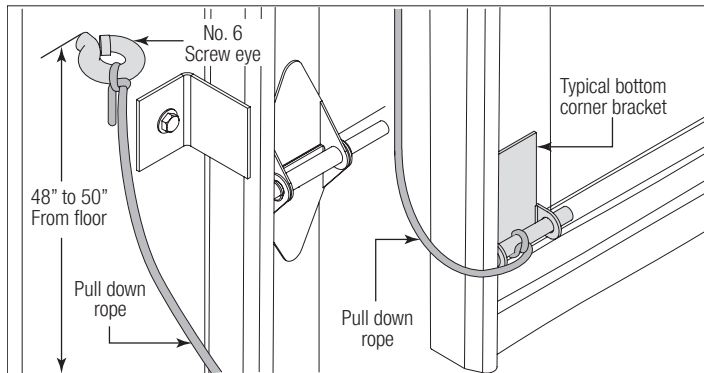


Pull Down Rope

⚠ WARNING

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

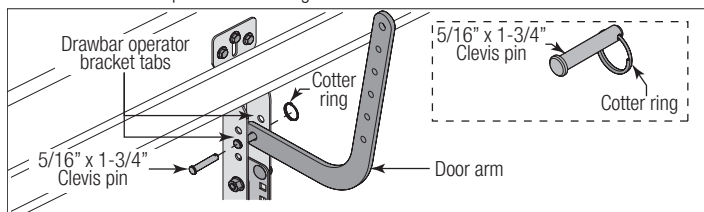
Measure and mark the jamb approximately 48" to 50" (1220 to 1270 mm) from floor on the right or left side of jamb. Drill 1/8" pilot hole for no. 6 screw eye. Tie the pull down rope to the no. 6 screw eye and to the bottom corner bracket, as shown.



Door Arm Hookup

NOTE: If overhead door operator / trolley bracket was installed, follow these directions.

Align hole in the door arm with holes in drawbar operator bracket tabs, as shown. Attach with 5/16" x 1-3/4" cotter pin and cotter ring.



Cleaning Your Garage Door

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

1. Use a soft-bristled, long-handled washing brush. It attaches to your garden hose and makes washing your garage door easier. Do not rub vigorously which may create glossy areas over the vinyl finish.
2. For hard-to-remove dirt, such as soot and grime found in industrial areas, wash the garage door down with a mild solution consisting of the following ingredients:

One cup detergent (with less than 0.5% phosphate) dissolved into five gallons of warm water.

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

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

3. Start at the bottom and work up to the top, as less streaking will result. Immediately following all washing operations, thoroughly rinse the surface area with fresh water from a garden hose.

This cleaning and maintenance information is suggested in an effort to be of assistance; however, manufacturer cannot assume responsibility for results obtained which are dependent on the cleaning solution and method of application.

CAUTION

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

Operation And Maintenance

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

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

WARNING

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

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

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

USING AN ELECTRIC OPERATOR:

IMPORTANT: PULL DOWN ROPES MUST BE REMOVED AND LOCKS MUST BE REMOVED OR MADE INOPERATIVE IN THE UNLOCKED POSITION.

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

MAINTAINING YOUR GARAGE DOOR: Before you begin, read all warning labels affixed to the door and the installation instructions and owner's manual. Perform routine maintenance steps once a month, and have the door professionally inspected once a year. Review your Installation Instructions and Owner's Manual for the garage door. These instructions are available at no charge from Wayne Dalton, a division of Overhead Door Corporation, P.O. Box 67, 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.

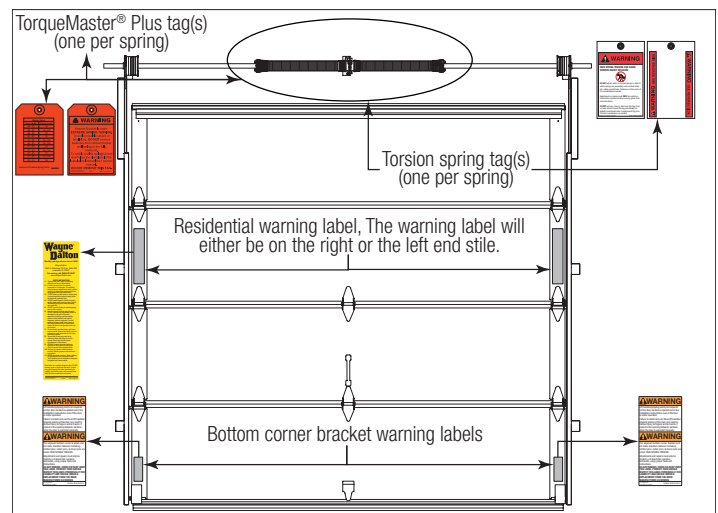
TORQUEMASTER® PLUS SPRINGS: Pawl knob(s) (located on the TorqueMaster® end brackets above the door) should be engaged to prevent the door from rapidly descending in case of spring failure or forceful manual operation.

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:





Model 8700

Limited Warranty

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

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

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

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is made to the original purchaser of the Product only, and is not transferable or assignable. This warranty applies only to Product installed in a residential or other non-commercial application. It does not cover any Product installed in commercial or industrial building applications. This warranty does not apply to any unauthorized alteration or repair of the Product, or to any Product or component which has been damaged or deteriorated due to misuse, neglect, accident, failure to provide necessary maintenance, improper installation of hardware, puncture, normal wear and tear, or acts of God or any other cause beyond the reasonable control of Seller. This warranty specifically excludes any damage resulting from scratching, abrasion or impact by any hard object or exposure to toxic or abrasive environments including toxic chemicals or fumes, and any fading or color change which may not be uniform due to unequal exposure of the curtains to sunlight or other elements. The Product is not recommended for use in hot, dry climates. This warranty specifically excludes coverage for any Product used or installed in Utah, Arizona, Nevada, New Mexico, Colorado and the West and Southwest regions of Texas. The Limited Warranty for the sections of the door will be voided if sections are painted.

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

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.