



Operation & Maintenance Manual

Residential Aluminum 360 Series

Individual model information is available at: www.haasdoor.com/residential



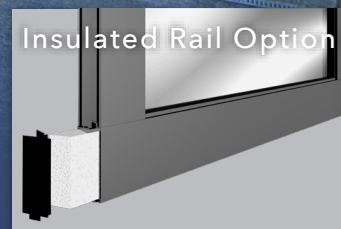
Interior



Exterior



Section Joint



Insulated Rail Option

Modern Performance.

Take your home to the next level of sophistication with the Residential Aluminum 360 Series' clean line look. Each handcrafted door is created to your specific wants with multiple wood grain and color options, a wide variety of glass choices from clear to obscure, and optional insulated rails that increase the door's thermal performance. The tongue and groove joint with bulb seal between the sections restrict cold or hot air from infiltrating to the inside of the garage. With all the options available, the sophisticated straight line look of the RA 360 will enhance the elegance of any home increasing curb appeal and the value of your home.

Change any garage from an accessory to a showpiece with a Haas Door RA 360 garage door with a clean, sophisticated look with modern performance. RA 360 opens the door to endless possibilities.



open the door to
endless possibilities

RESIDENTIAL ALUMINUM 360 SERIES

- 5 Impact Polycarbonate Options
- 29 Specialty Glass Options
- Rust and Corrosion Free
- Commercial Grade Aluminum
- Tongue and Groove Section Joints meet Air Infiltration Requirements
- Optional Polystyrene Insulated Rails with Tested U-Factor of 0.690.
- 3 Anodized Color Options
- 10 Painted Finish Options
- 11 Wood Grain Color Options
- Custom-matched Color and Powder Coating also available



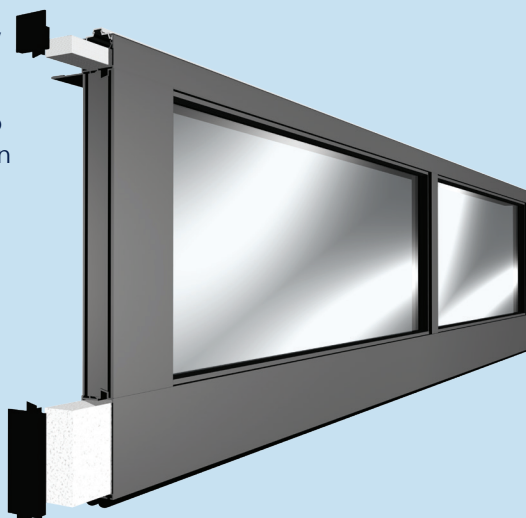
RA 360

The variety of options for the RA 360 allows you to select the exact look you desire for your home. Match the door to accent colors on the home, or select a wood grain finish to match your front door. Combine the finish with 35 glazing options from Dark Gray/Dark Gray to our highest privacy glass, Obscure/-Frosted to create a truly unique door that completely enhances the beauty and increases the value of your home.



For the highest thermal performance rating for our residential aluminum 360, request the insulated rail option with SolarShield and Argon gas for a 0.690 tested U-Factor. These options will help keep the cold out in the winter or cool in during summer.

The tongue and groove joint between sections contain a bulb seal that meets air infiltration requirements to ASTM E283-04. The rails are insulated with polystyrene, and the ends are capped to complete the sophisticated, clean look. These options provide more protection against heat or cold migrating into the garage with the bulb seal that restricts air from flowing into the garage from the outside.



GLAZING OPTIONS

Impact Polycarbonate Options

Clear
Bronze
Dark Gray
Frosted
Pebble

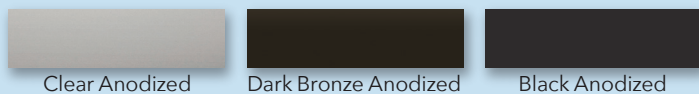
Insulated Specialty Glass Options

Clear/Clear
Dark Gray/Clear
Light Gray/Clear
Bronze/Clear
Obscure/Clear
Rain/Clear
Clear/Frosted
Dark Gray/Frosted
Light Gray/Frosted
Bronze/Frosted
Obscure/Frosted
Rain/Frosted
Clear/Low-E
Dark Gray/Dark Gray
Clear/SolarShield
Translucent Mirror

Non-Insulated Specialty Glass Options

Clear
Dark Gray
Light Gray
Bronze
Frosted
Reflective Bronze
Obscure
Rain
Reed
Arctic
Frosted Safety Laminate
Clear Safety Laminate
Clear Polycarbonate

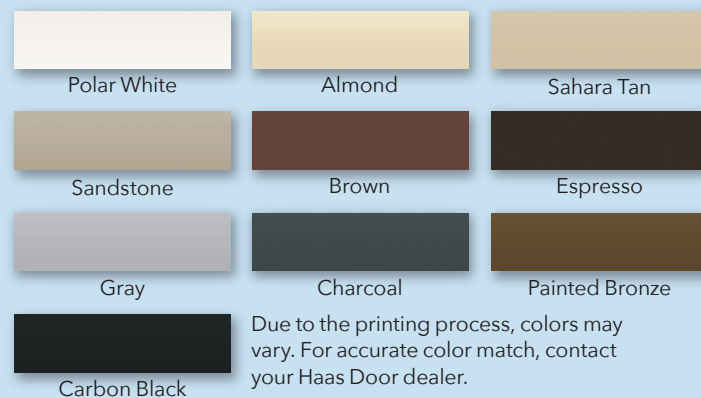
ANODIZED COLORS



WOODGRAIN COLORS



PAINTED COLORS



U-Factor uses a solid door assembly. Adding lites will affect the tested U-Factor.

FEATURES

- .050" Minimum Aluminum Tublar Extrusion
- Rust and Corrosion Free
- Commercial-grade Aluminum
- Tongue-and-Groove Section Joints with Air Infiltration Bulb Seal
- Optional Polystyrene Insulated Rails & Stiles
- Custom-matched Color and Powder Coating available
- 16 Insulated Glass Options
- 14 Non-Insulated Glazing Options
- 5 Impact Polycarbonate Glazing Options

(Glazing Options on pg23)

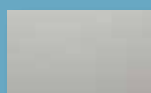


Available upon request.

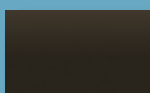


Solid Colors

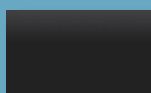
Matching solid panels also available for all colors.



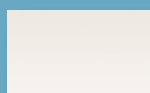
Clear Anodized



Dark Bronze Anodized



Black Anodized



Polar White



Almond



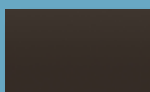
Sahara Tan



Sandstone



Brown



Espresso



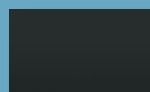
Gray



Charcoal



Painted Bronze



Carbon Black

Due to the printing process, colors may vary. For an accurate color match, contact your Haas Door dealer.



Residential Aluminum 360 series

RA 360 Series / 1 3/4" thick



RA360ix in national cherry with insulated rails and 1/2" clear/frosted glass



rails with 1/4" reflective bronze glass



RA360 in dark bronze anodized rails with 1/4" impact clear polycarbonate

Powder Coated Wood Grain Colors



National Oak



Knotty Pine



Colony Maple



European Cherry



Antique Cherry



Heritage Maple



Coffee



Cherry with Flame



National Cherry



Spiced Walnut



Black Walnut

Aluminum



Garage Door Installation & Owners Manual

Thank you for your purchase of a Haas Door sectional door system. This system is designed to provide years of trouble free service with very little maintenance required. Please keep this Installation and Owners Manual for future reference.

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SAFETY SYMBOLS: The following safety symbols alert you to important SAFETY precautions to prevent injury and damage.

 Professional installers ONLY!	 Frosted Glass Care
 Review all instructions prior to installation!	 WARNING! INJURY OR DAMAGE MAY OCCUR!
 Wear safety gear!	 STOP! Follow carefully, or unsatisfactory results may occur.
 D.I.Y. Not included - Do it yourself (D.I.Y.) item.	 HANDLE CORRECTLY! Always carry the panels vertically. The panels can crease if carried horizontally/flat.
 Wind load doors have additional installation requirements. Read the supplemental requirements provided with wind load garage doors.	 DO NOT attach the track/components through drywall.
 Garage doors with windows have additional installation requirements. Read the supplemental requirements.	 CRUSH HAZARD! The door is heavy. If the track is not installed correctly, the door can fall out of the track and crush what is below.
 Building Code and DASMA compliant. Make sure to follow all local building codes and DASMA guidelines for the best performance.	 Parallel Elements should be parallel to each other.
	 Perpendicular Elements should be perpendicular to each other.

SAFETY WARNINGS:

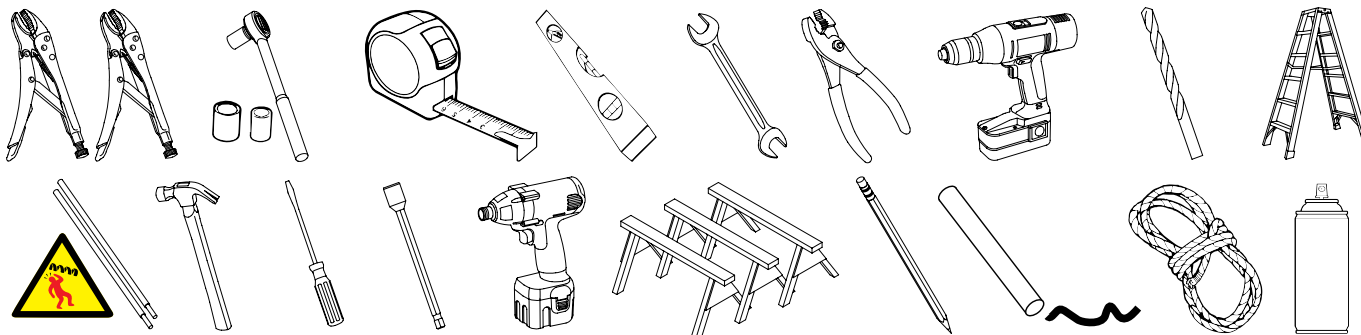


READ ALL SAFETY WARNINGS

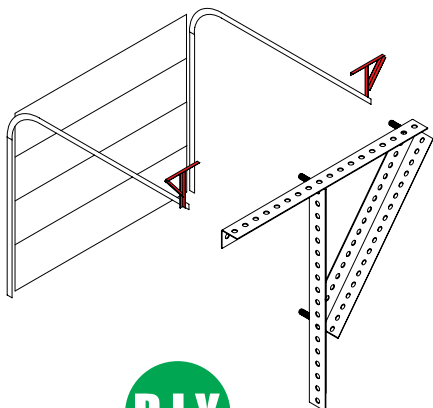


- **WARNING!** The garage door sections are heavy. Use assistance to lift them.
- Ensure you have all the correct tools before you start the installation and follow all instructions carefully.
- **Keep hands and fingers clear of all section joints, tracks, and other door parts** when the door is opening and closing to avoid injury. The (no-cost optional) pull rope and/or lift handle should be used when opening or closing a manual lift door.
- **Do not permit children to play beneath or around any garage door, door ropes, or electric operating controls.**
- **Do not climb on struts.**
- Garage doors use springs to counterbalance the weight of the door. **DO NOT attempt to remove an old door.** Removal should only be performed by a qualified sectional-overhead-garage-door technician. Extension springs and torsion springs are under extreme pressure. Attempting to remove a torsion spring assembly without proper training or tools may result in an uncontrolled release of spring forces, which can cause serious or fatal injury.
- **Only use solid steel winding bars to wind torsion spring assemblies.** Using a substitute (like a screw driver) for winding bars will risk severe injury and liability.
- The BOTTOM CORNER BRACKETS, EXTENSION SPRINGS, CABLES, AND TORSION SPRINGS are under extreme tension. **DO NOT attempt to loosen red fasteners on these components.** Components that are loosened while still under tension will separate violently from the door assembly and/or release the spring with dangerous force.
- **Horizontal track installations must use sway braces on the rear of the track to prevent sideways movement.** If the track rails are not properly anchored, they may spread and allow the door to fall out, causing severe injury and damage.

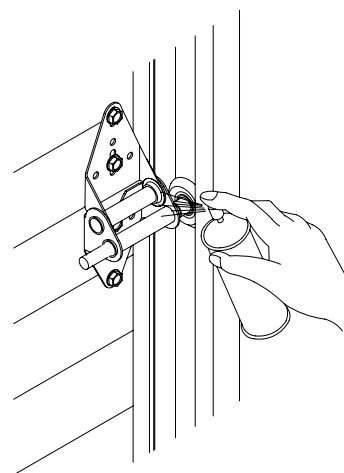
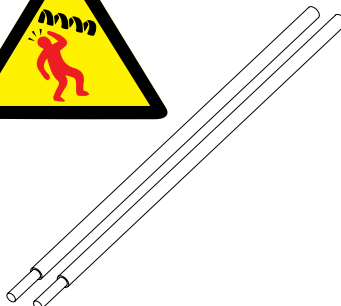
Tools Needed:



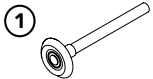
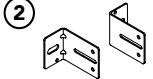
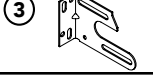
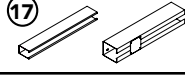
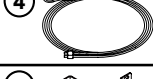
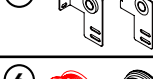
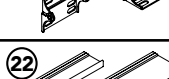
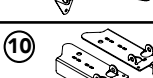
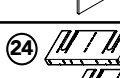
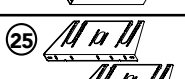
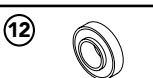
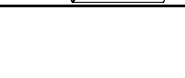
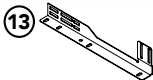
Preparation:



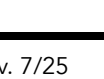
D.I.Y.

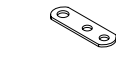


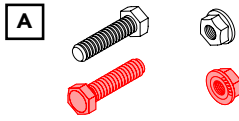
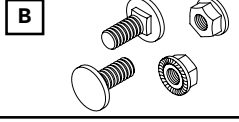
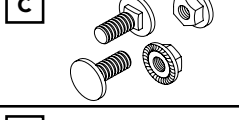
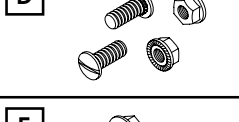
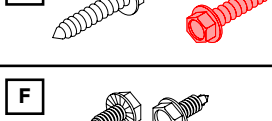
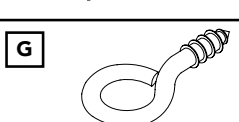
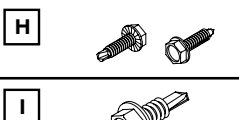
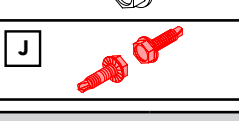
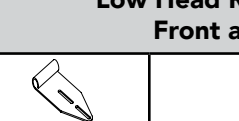
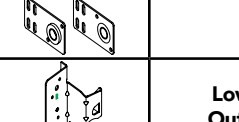
Hardware:

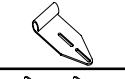
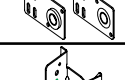
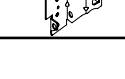
Hardware Identification			
	Roller		Lift Handle/Step Plate Spacers
	Jamb Brackets (Dependent on door height)		Shaft
	Spring Anchor		E-Strut(s)®
	Torsion Cables		Football Retainer
	End Bearing Plate		Coupler
	Cable Drums		Half-Hinge
	Top Bracket		Narrow Rail Hinge
	Lift Handle(s)/ Step Plate		Cap Strut(s)
	End Hinge/ Roller Carrier		Hinge Shim
	Bottom Bracket		Double End Bearing Plate
	Intermediate Hinge		Double Spring Anchor
	Stamped Steel Bearing		
	Flag Bracket		
	Torsion Spring		

Additional Hardware:

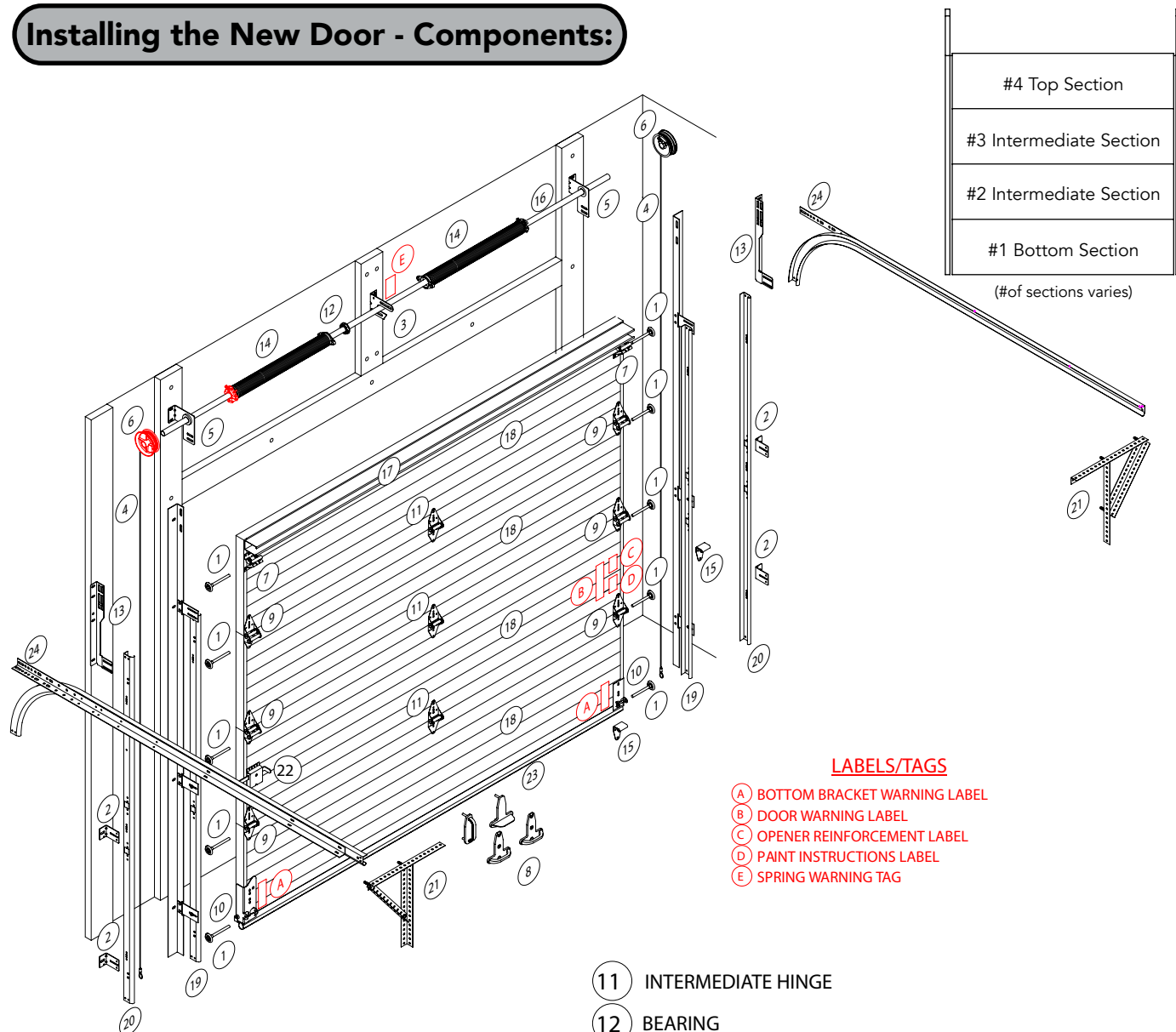
Extension Spring Door		Min. Required
	Flat Washer	2
	Cable Sheave	4
	Sheave Strap	2
	S Hook	2

	3 Hole Clip	2
	5/16" Eyebolt and 5/16" Serrated Washer Hex Nut	2
	3/8" x 1 1/2" Round Slot Head Screw & 3/8" Serrated Washer Hex Nut	4

Fasteners	
	3/8" x 1 1/2" Hex Head Bolt and 3/8" Serrated Washer Hex Nut
	5/16" x 3/4" Carriage Bolt and 5/16" Serrated Washer Hex Nut
	1/4" x 5/8" Carriage Bolt and 1/4" Serrated Washer Hex Nut
	1/4" x 5/8" Track Bolt and 1/4" Serrated Washer Hex Nut
	5/16" x 1 5/8" Lag Bolt
	1/4" x 3/4" Self tapping Hex Head Screw
	Pull Rope Tie Down Eyelet
	#6 - 1/2 Hex Head Tek Screw
	5/16" x 1" Self tapping Hex Head Tek Screw
	1/4" x 1" Self tapping Hex Head Screw

Low Head Room Torsion Spring Front and Rear Mount	
	Low Head Room Front and Rear Top Fixture
	End Bearing Plate
	Low Head Room Front and Rear Outside Hook-up Bottom Fixture

Installing the New Door - Components:



LABELS/TAGS

- (A) BOTTOM BRACKET WARNING LABEL
- (B) DOOR WARNING LABEL
- (C) OPENER REINFORCEMENT LABEL
- (D) PAINT INSTRUCTIONS LABEL
- (E) SPRING WARNING TAG

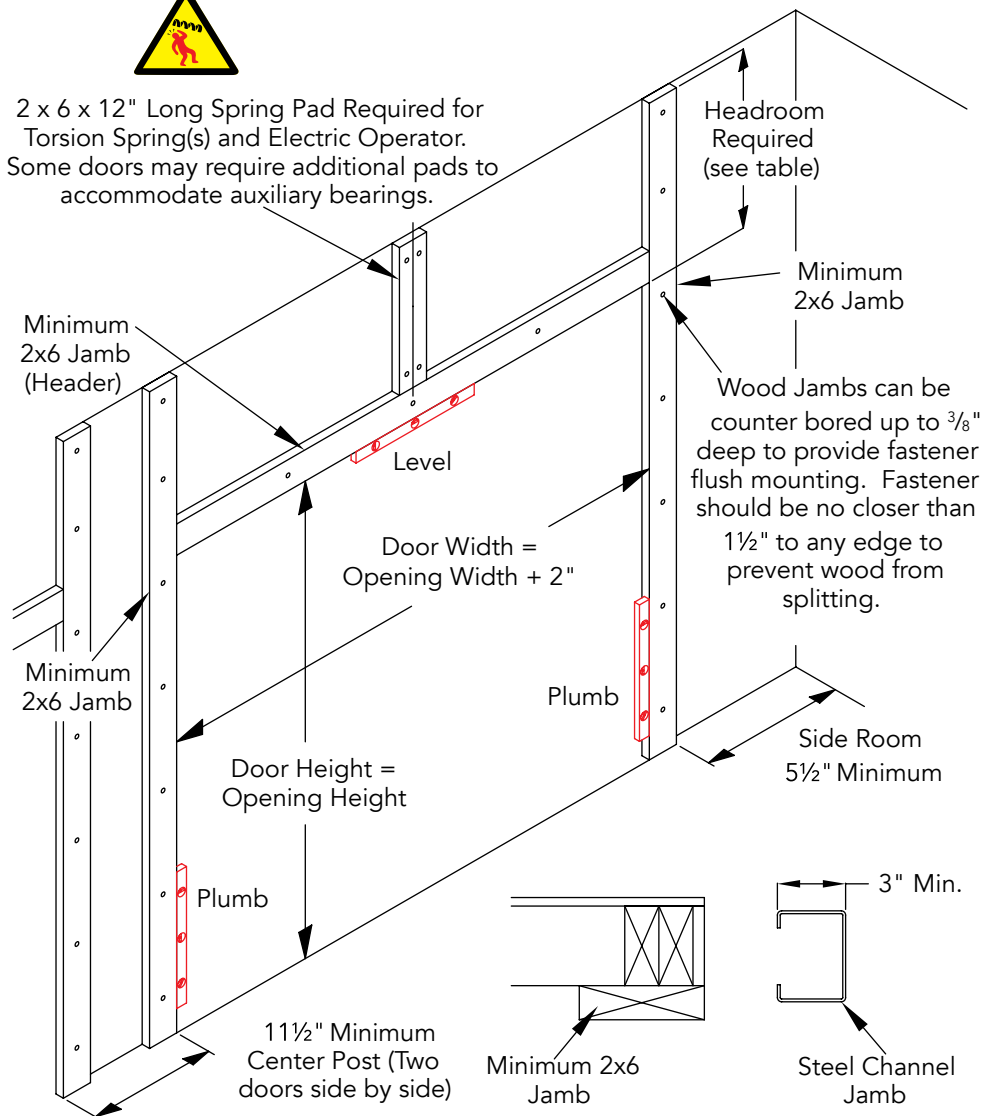
- (1) ROLLER
- (2) JAMB BRACKETS
- (3) SPRING ANCHOR
- (4) TORSION CABLE
- (5) END BEARING PLATE (L & R)
- (6) CABLE DRUM (L & R)
- (7) TOP BRACKET
- (8) STEP PLATE AND LIFT HANDLES (OPTIONAL)
- (9) END HINGE/ROLLER CARRIER
- (10) BOTTOM BRACKET (L & R)
- (11) INTERMEDIATE HINGE
- (12) BEARING
- (13) FLAG BRACKET (L & R)
- (14) TORSION SPRING (L & R)
- (15) LIFT HANDLES/STEP PLATES
- (16) TUBE SHAFT
- (17) E STRUT
- (18) DOOR PANEL
- (19) VERTICAL TRACK/ANGLE ASSEMBLY (L & R)
- (20) VERTICAL TRACK (L & R)
- (21) HANGER (D.I.Y - NOT SUPPLIED)
- (22) SLIDE LOCK (OPTIONAL)
- (23) BOTTOM SEAL
- (24) HORIZONTAL TRACK & ANGLE (L & R)

Opening Preparation:

TRACK RADIUS	Counter-balance Type	Minimum Head-room*
12" RADIUS	Torsion	11.5"
	Extension	10.5"
15" RADIUS	Torsion	15.5"
	Extension	13.5"
LOW HEADROOM	Rear Torsion	4.5"
	Front Torsion	11.5"
	Extension	6"



2 x 6 x 12" Long Spring Pad Required for Torsion Spring(s) and Electric Operator. Some doors may require additional pads to accommodate auxiliary bearings.



Please reference
DASMA Technical Data
Sheet #156
for proper instructions.
www.dasma.com



WARNING! Torsion spring installation requires a center spring mounting pad. **Minimum size should be 2" x 6" x 12" of Grade 2 or better Southern /Yellow Pine.** It should be attached securely using (4) 3/8" x 3" lag screws. Lag screws not included. Use (4) 3/8" masonry anchors to mount into concrete. **DO NOT** use wood labeled Spruce/Pine/Fir (SPF).



- If the spring pad splits during or after the torsion spring(s) are wound, it should be replaced by a professional installer. **DO NOT attempt to remove or repair the mounting pad(s) once a spring is wound.**
- **DO NOT install spring mounting pads, track, or sway braces through drywall.** The drywall reduces the engagement area of the lag screws, reducing the strength of the door assembly.



STOP! If installing Rear Torsion, Low Head Room Spring Counterbalance, the spring pad will be mounted on the ceiling with the same requirements for strength.

STOP! If door being installed is a designated Wind Load garage door, a 1" overlap of the door to the door frame is required.

STOP! Before you begin installation of your Haas Door, verify you have the proper materials and required clearances.

- Ensure you have enough space to maneuver the door sections to prevent potential damage.
- Confirm the door is the proper size for the opening.
- Confirm you have enough side and head room for the planned installation.
- Electric operators require additional headroom. See instructions provided with the operator for the exact amount.

STEP 1:

Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 15'-7"	15'-8" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"
American Tradition®	(1) 2" E-Strut per Door	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut on Alternating Sections from the Top ²	(1) 2" E-Strut per Section ²	(1) 3" E-Strut per Section ²	(1) 4" E-Strut per Section
Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"	24'-3" & over
814, 816	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	(1) 6" E-Strut per Section
870, 880							NA
833, 833-20							(1) 6" E-Strut per Section
832, 832-20							NA
Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"	24'-3" & over
2010, 2010LP, 2010RP, 2012, 2012LP, 2012RP, 2063, 2064, 2073, 2074	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
2070, 2071, 2072, 2078, 2079, 2080, 2081, 2082, 2087, 2090					(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	
2060, 2061, 2067, 2068, 2069						(1) 4" E-Strut per Section	(1) 6" E-Strut per Section
2014, 2016							NA
2033, 2033-20							NA
2032, 2032-20							
Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"	24'-3" & over
710, 710LP, 710RP, 712, 712LP, 712RP, 763, 764, 773, 774,	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
770, 771, 772, 778, 779, 780, 781, 782, 787, 790					(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	
760, 761, 767, 768, 769						(1) 4" E-Strut per Section	(1) 6" E-Strut per Section
714, 716							(1) 6" E-Strut per Section
733, 733-20							NA
732, 732-20							NA
Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"	24'-3" & over
610, 610LP, 610RP, 612, 612LP, 612RP, 614, 616, 632, 632-20, 633, 633-20, 660, 661, 663, 664, 667, 668, 669, 670, 671, 672, 673, 674, 678, 679, 680, 681, 682, 687, 690	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
2011, 2011L, 2015, 2015L	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	(1) 6" E-Strut per Section
2011S, 2015S		(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section				NA
2411, 2411L, 2415, 2415L	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	(1) 6" E-Strut per Section
2411S, 2415S		(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section				NA

Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"	24'-3" & over
2511, 2511L	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
2511S		(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section				
2410, 2410L, 2410LP, 2410LPL, 2410RP, 2410RPL, 2460, 2460L, 2461, 2461L, 2470, 2470L, 2471, 2471L, 2472, 2472L, 2480, 2480L, 2481, 2481L, 2482, 2482L	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top ⁴	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section	NA
2480S		(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section				
2560, 2560L, 2561, 2561L, 2570, 2570L, 2571, 2571L, 2572, 2572L, 2580, 2580L, 2581, 2581L, 2582, 2582L	No Strut	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
Model	4'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 21'-2"	21'-3" thru 24'-2"	24'-3" & over
5814, 5816, 5870, 5880	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	NA	NA
5210, 5212	No Strut	(1) 2" E-Strut per Door	(1) 2" E-Strut on Alternating Sections from the Top	(1) 2" E-Strut per Section	NA	NA	NA
5214, 5216, 5770, 5778, 5780, 5787					(1) 3" E-Strut per Section		

Doors with Carriage House Lites and Single SlimLites

Model	4'-0" thru 7'-6"	7'-7" thru 14'-2"	14'-3" thru 15'-5"	15'-6" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"
2010CP, 2012CP, 2010SP, 2012SP, 2060, 2061, 2063, 2064, 2067, 2068, 2069 710CP, 712CP, 710SP, 712SP, 760, 761, 763, 764, 767, 768, 769 610CP, 612CP, 610SP, 612SP, 660, 661, 663, 664, 667, 668, 669	No Strut	(1) 2" E-Strut per Door and per non-Top Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number Lite Section ³	(1) 2" E-Strut per Section ³	(1) 3" E-Strut per Section ³	(1) 4" E-Strut per Section
5210CP, 5212CP, 5210SP, 5212SP, 5267, 5268, 5710CP, 5712CP, 5710SP, 5712SP, 5767, 5768	No Strut	(1) 2" E-Strut per Door and per non-Top Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number, non-Top Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number Lite Section ³	(1) 2" E-Strut per Section ³	(1) 2" E-Strut per Section ³	NA
Model	4'-0" thru 7'-8"	7'-9" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 16'-2"	16'-3" thru 18'-2"	18'-3" thru 23'-2"	23'-3" thru 24'-2"
2410CP, 2460, 2461, 2410CPL, 2460L, 2461L	No Strut	(1) 2" E-Strut per Lite Section	(1) 2" E-Strut per Door and per non-Top Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number, non-Top Lite Section	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section
2560, 2561 2560L, 2561L	No Strut	(1) 2" E-Strut per Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number, non-Top Lite Section	(1) 2" E-Strut on Alternating Sections from the Top and per Even Number Lite Section	(1) 2" E-Strut per Section	(1) 3" E-Strut per Section	(1) 4" E-Strut per Section

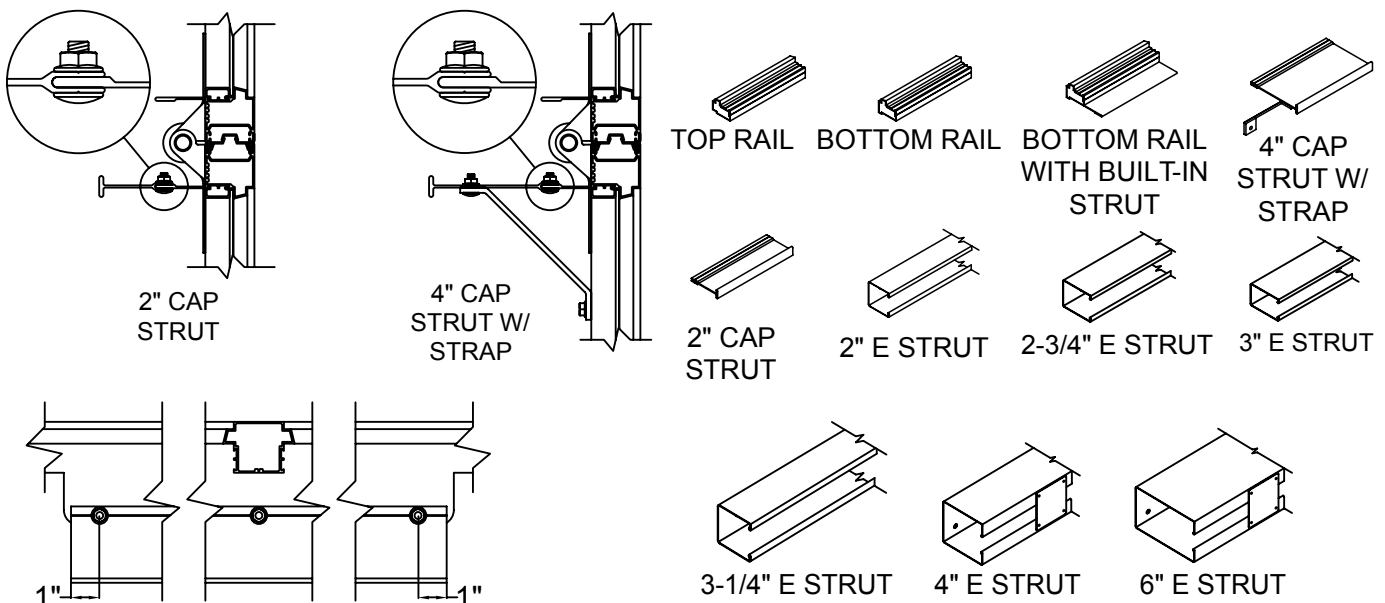
Doors with Double SlimLites Lites, Full Row

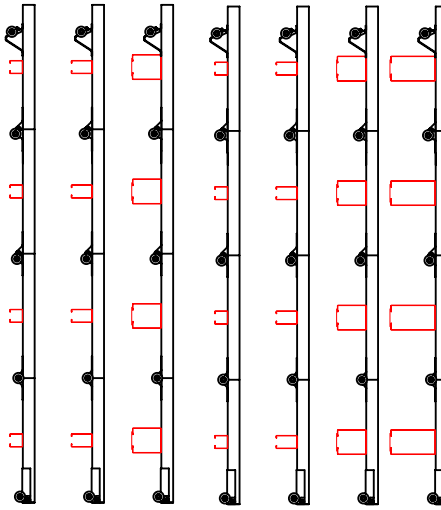
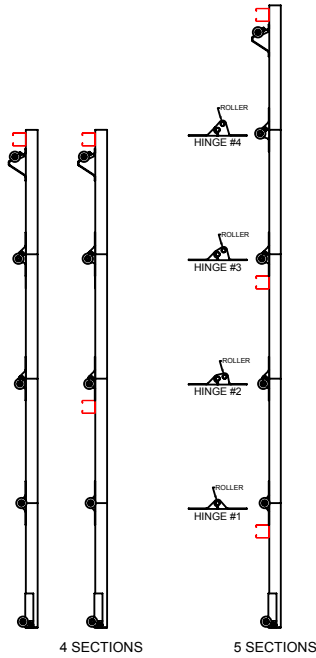
Model	4'-0" thru 7'-6"	7'-7" thru 10'-2"	12'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 15'-5"	15'-6" thru 16'-2"	16'-3" thru 18'-2"
2010DP 2012DP 710DP 712DP 610DP 612DP	No Strut	(1) 2" E-Strut per Lite Section	(1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2-3/4" E-Strut per Lite Section ⁴
5210DP 5212DP 5710DP 5712DP	No Strut	(1) 2" E-Strut per Lite Section	(1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Section and (1) 2-3/4" E-Strut per Lite Section ⁴

Doors with Double SlimLites Lites, End Panel Only

Model	4'-0" thru 7'-6"	7'-7" thru 10'-2"	12'-0" thru 13'-2"	13'-3" thru 14'-2"	14'-3" thru 15'-5"	15'-6" thru 16'-2"	16'-3" thru 18'-2"
2010DP 2012DP 710DP 712DP 610DP 612DP	No Strut	(1) 2" E-Strut per Lite Section	(1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2-3/4" E-Strut per Lite Section ⁴
5210DP 5212DP 5710DP 5712DP	No Strut	(1) 2" E-Strut per Lite Section	(1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Top Section and (1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2" E-Strut per Lite Section ⁴	(1) 2" E-Strut on Alternating Sections from the Top and (1) 2-3/4" E-Strut per Lite Section ⁴	(1) 2" E-Strut per non-Lite Section and (1) 2-3/4" E-Strut per Lite Section ⁴

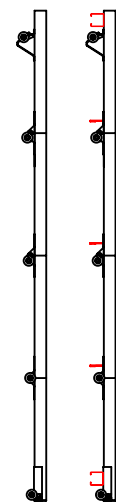
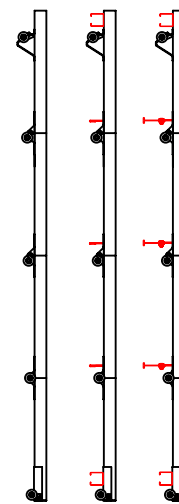
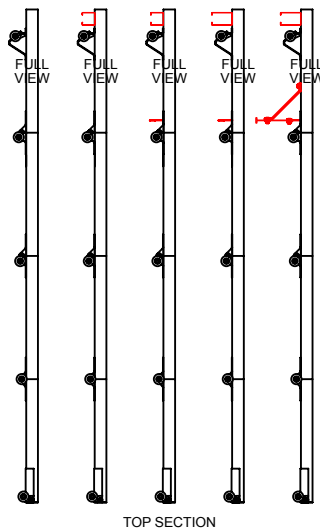
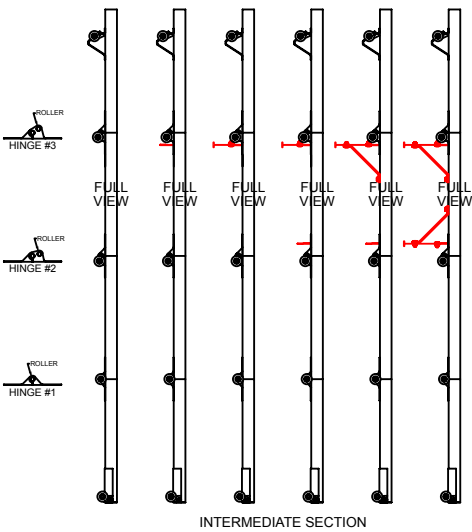
1. Struts are for non-windload-rated doors. See the windload spreadsheets and drawings for struts required for the specified design pressure.
2. Two (2) E-struts are pre-attached to each lite section for shipping purposes. Remove (1) strut and relocate to a section without lites.
3. Two (2) E-struts are pre-attached to each lite section for shipping purposes, if the lite section has a lite in every panel or if a lite is in a center panel of the section. Remove (1) strut and relocate to a section without struts.
4. One (1) E-Strut is pre-attached to each lite section for shipping purposes.



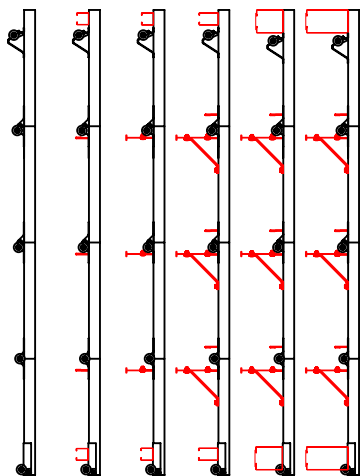


FOR WINDOW SECTIONS
STRUT SHOULD BE AT TOP

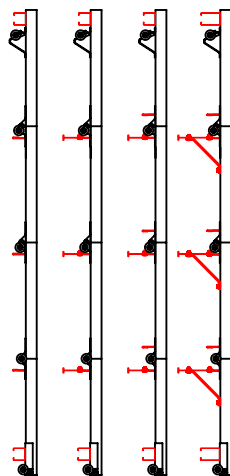
HT & PAN STRUT SCHEDULE



FULL VIEW STRUT SCHEDULE

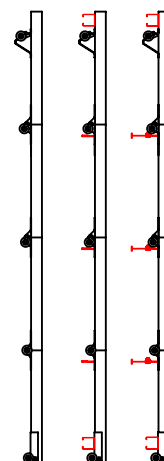


CA 320 STRUT SCHEDULE



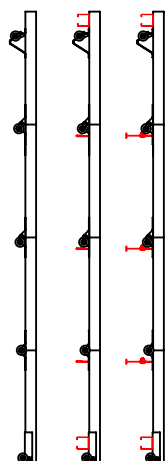
CA 320i STRUT SCHEDULE

CA 110 STRUTC SCHEDULE



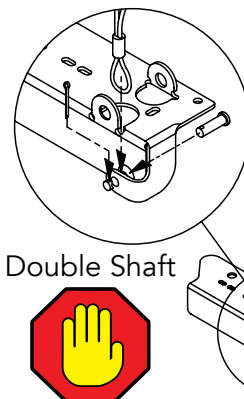
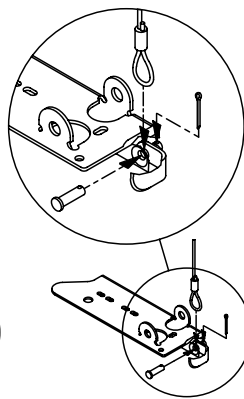
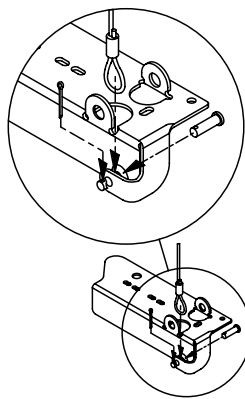
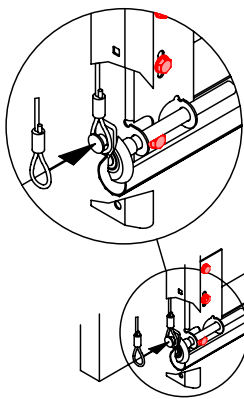
CA 315 STRUTC SCHEDULE

CA 110i STRUT SCHEDULE



CA 315i STRUT SCHEDULE

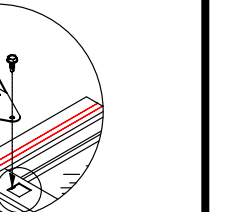
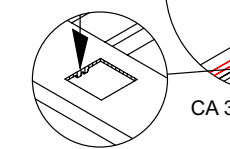
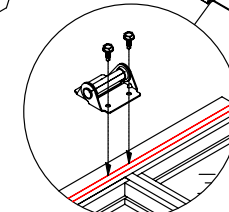
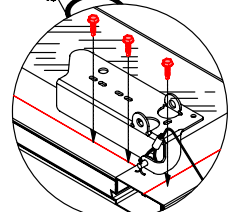
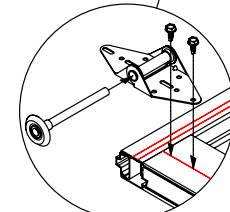
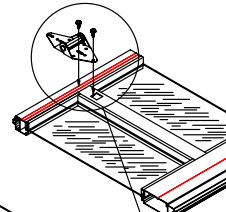
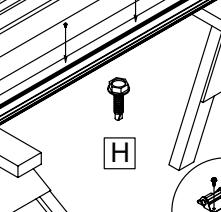
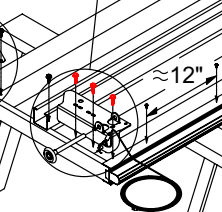
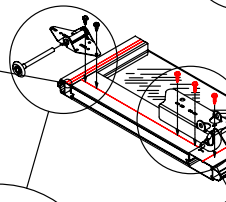
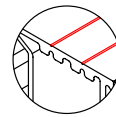
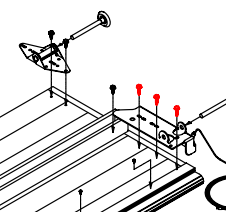
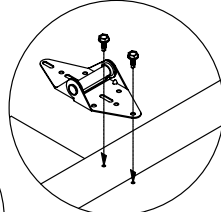
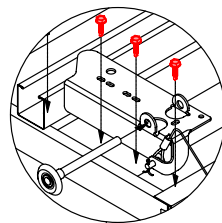
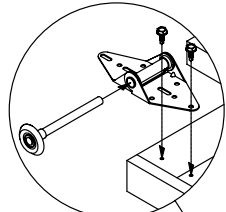
STEP 2:



Double Shaft



STEP 3:

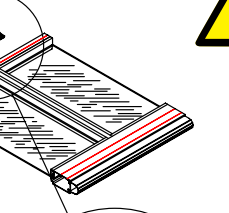
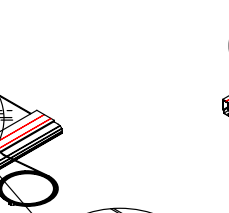
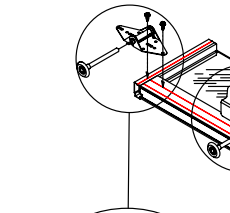


CA 315 & CA 315i
CA 320 & CA 320i

CA 315 & CA 315i
CA 320 & CA 320i

CA 315 & CA 315i

CA 320 & CA 320i



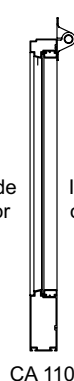
Outside
of door



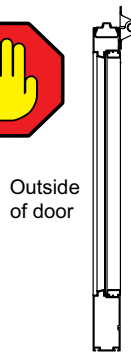
Inside
of door

Outside
of door

Inside
of door



CA 110



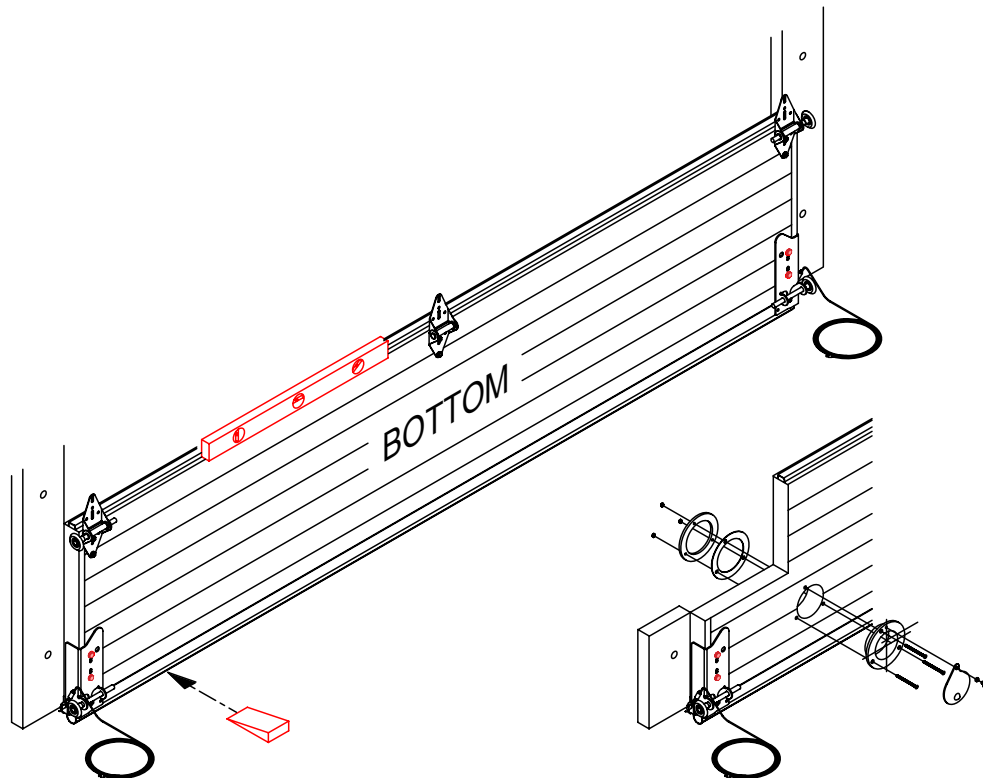
CA 315 & CA 315i
CA 320 & CA 320i

CA 110

CA 110

CA 110

STEP 4:



STEP 5:



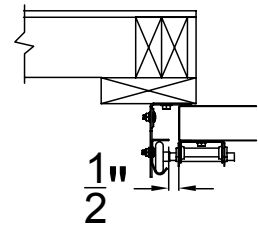
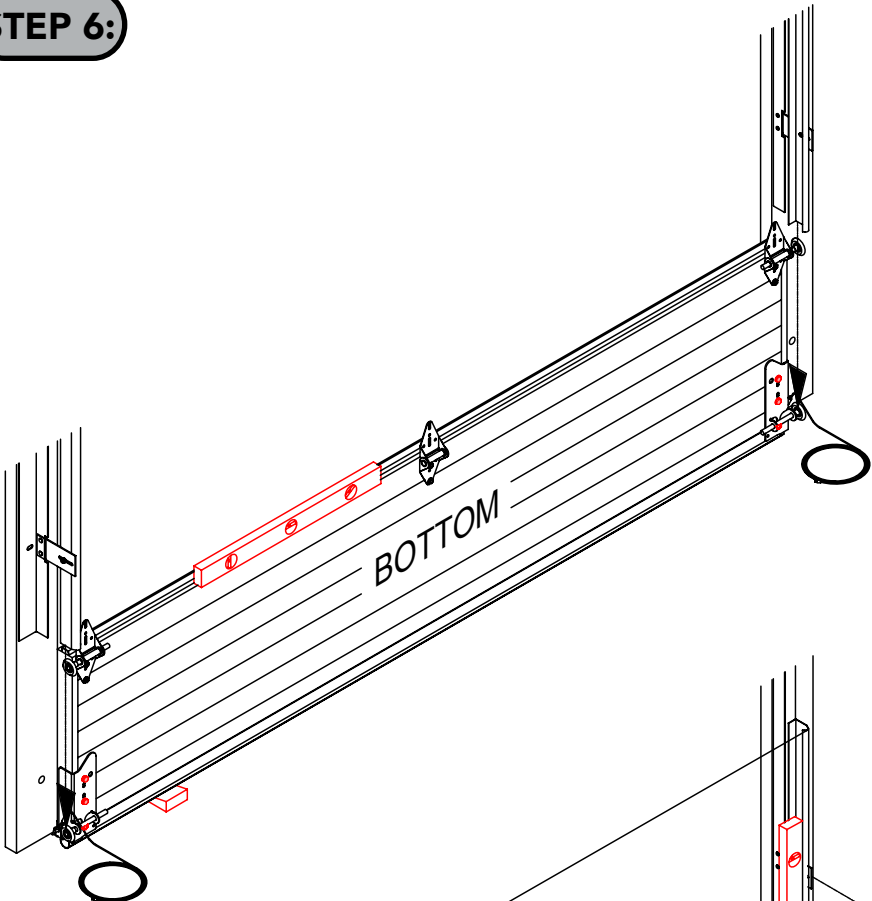
	For 2" Track	For 3" Track
Top Section	Top Bracket	
	Hinge #7	Hinge #9
Intermediate Section	Hinge #6	Hinge #8
Intermediate Section	Hinge #5	Hinge #7
Intermediate Section	Hinge #4	Hinge #6
Intermediate Section	Hinge #3	Hinge #5
Intermediate Section	Hinge #2	Hinge #4
Lock Intermediate Section	Hinge #1	Hinge #3
Bottom Section	Bottom Bracket	

	For 2" Track	For 3" Track
2" Top Section	Top Bracket	
	No Hinge Shims Hinge #7 No Hinge Shims	Hinge #9
2" Intermediate Section	No Hinge Shims Hinge #6 No Hinge Shims	Hinge #8
2" Intermediate Section	No Hinge Shims Hinge #5 No Hinge Shims	Hinge #7
2" Intermediate Section	No Hinge Shims Hinge #4 Hinge Shims	Hinge #6
Full View Section	No Hinge Shims Hinge #4 No Hinge Shims	Hinge #6
Full View Section	No Hinge Shims Hinge #3 No Hinge Shims	Hinge #5
Full View Lock Section	Hinge Shims Hinge #1 No Hinge Shims	Hinge #3
2" Bottom Section	Bottom Bracket	

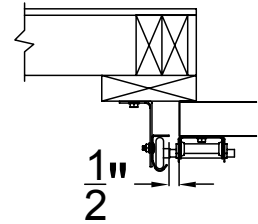
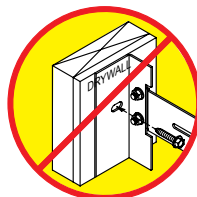
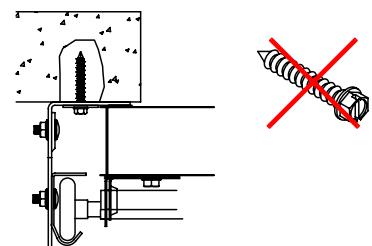
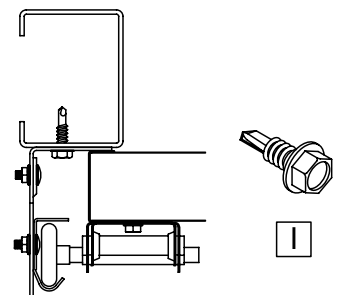
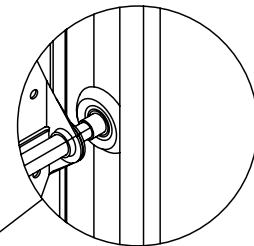
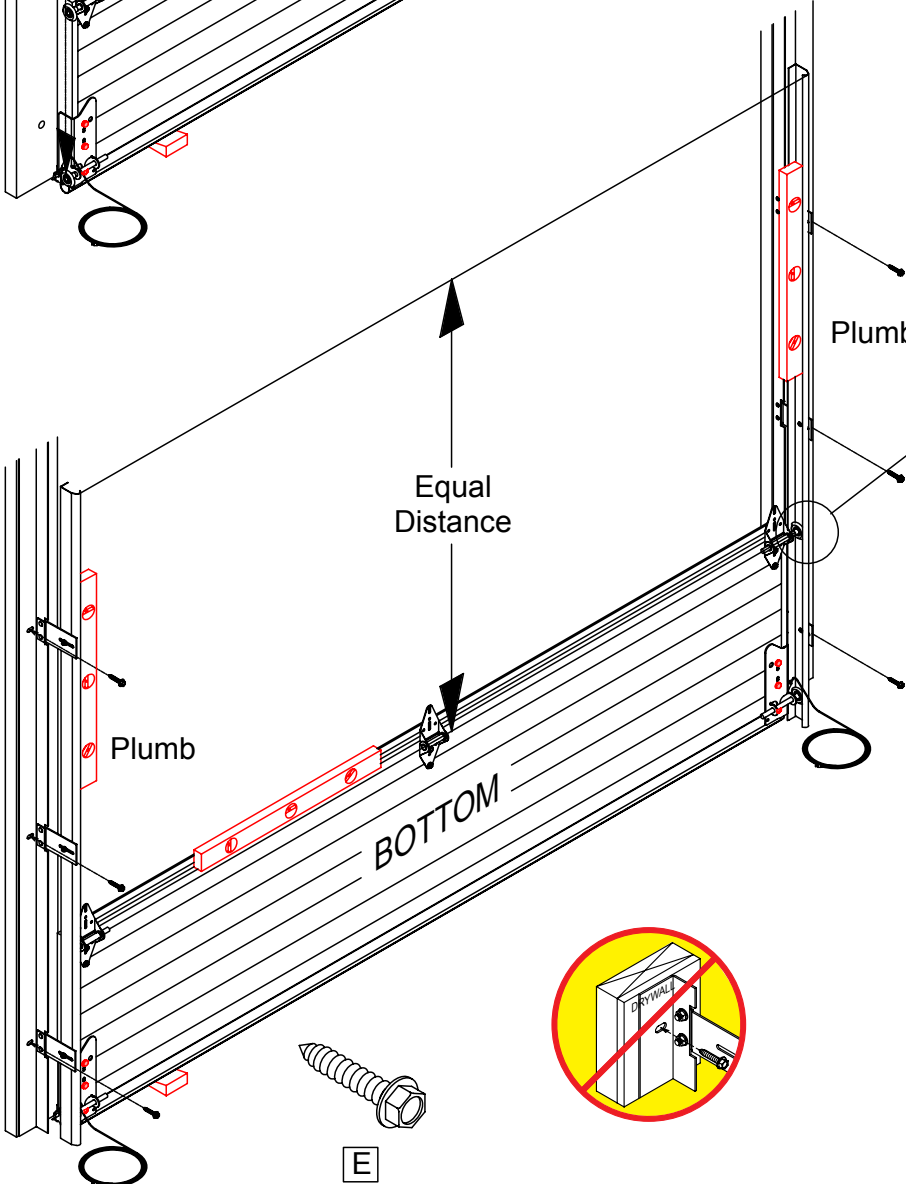
	For 2" Track	For 3" Track
2" Top Section	Top Bracket	
	No Hinge Shims Hinge #7 No Hinge Shims	Hinge #9
2" Intermediate Section	No Hinge Shims Hinge #6 No Hinge Shims	Hinge #8
2" Intermediate Section	No Hinge Shims Hinge #5 No Hinge Shims	Hinge #7
2" Intermediate Section	No Hinge Shims Hinge #4 Hinge Shims	Hinge #6
Full View Section	Hinge Shims Hinge #3 No Hinge Shims	Hinge #5
2" Intermediate Section	No Hinge Shims Hinge #2 No Hinge Shims	Hinge #4
2" Intermediate Section	No Hinge Shims Hinge #1 No Hinge Shims	Hinge #3
2" Bottom Section	Bottom Bracket	

Shims for Full View Sections

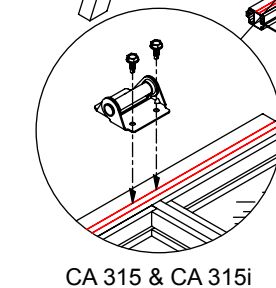
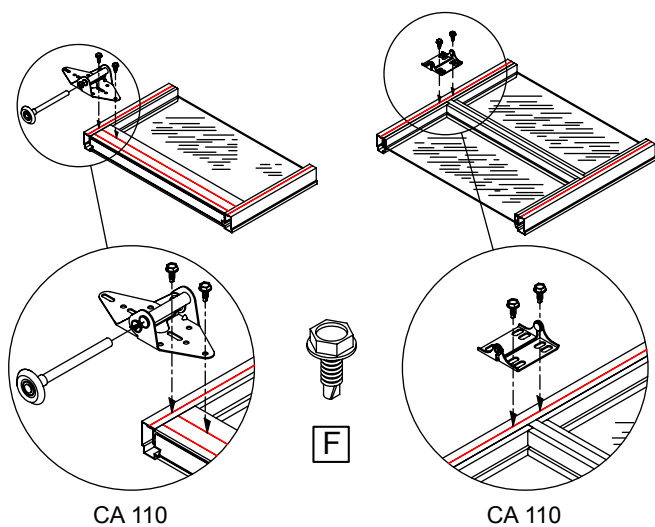
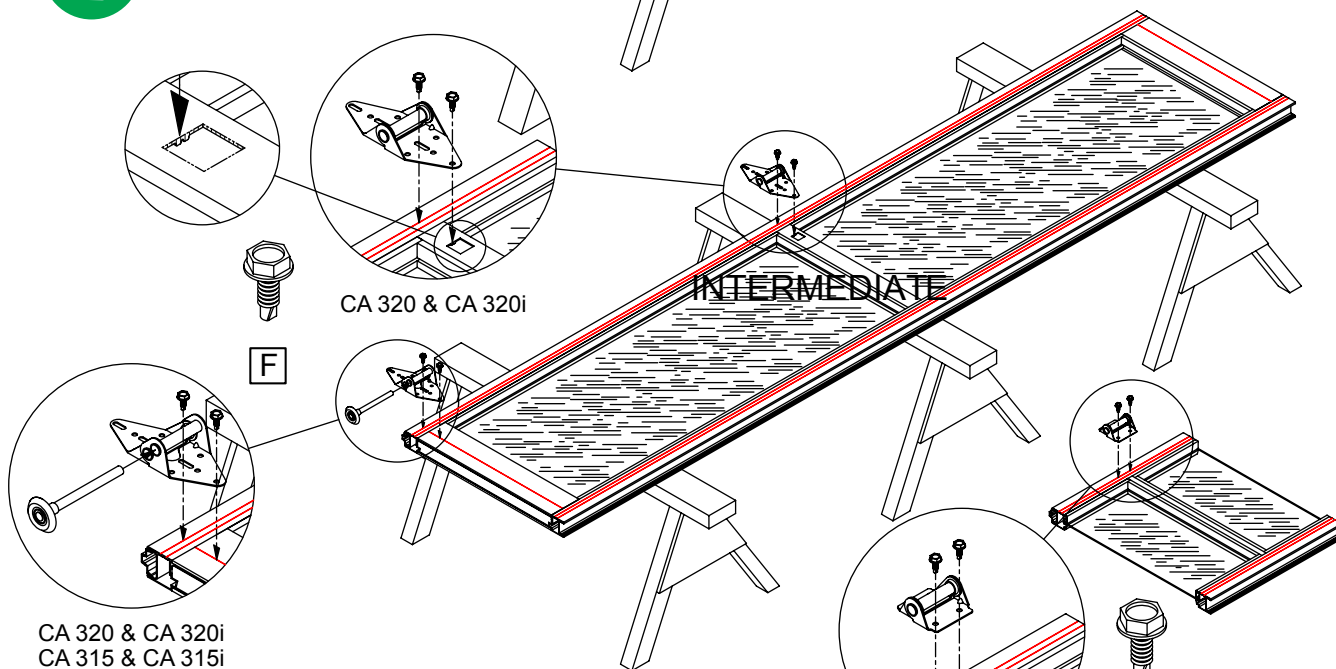
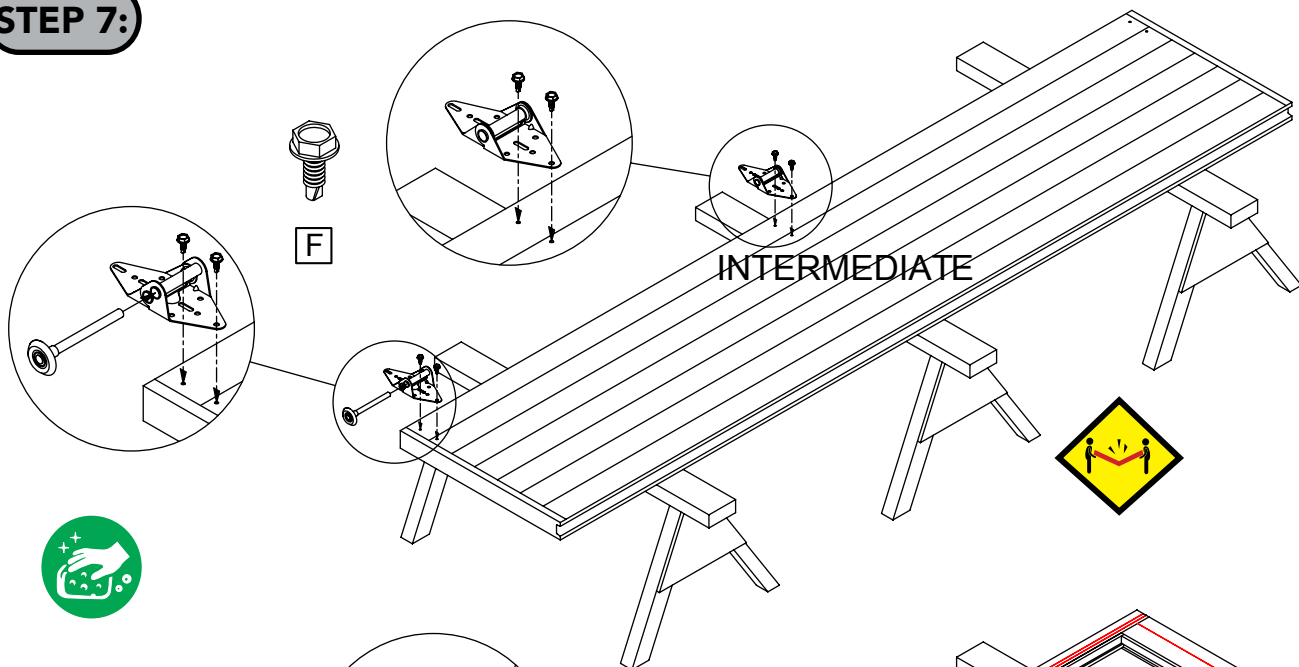
STEP 6:



REVERSE ANGLE MOUNT

BRACKET MOUNT
or ANGLE MOUNT

STEP 7:



Outside of door



CA 110



Inside of door

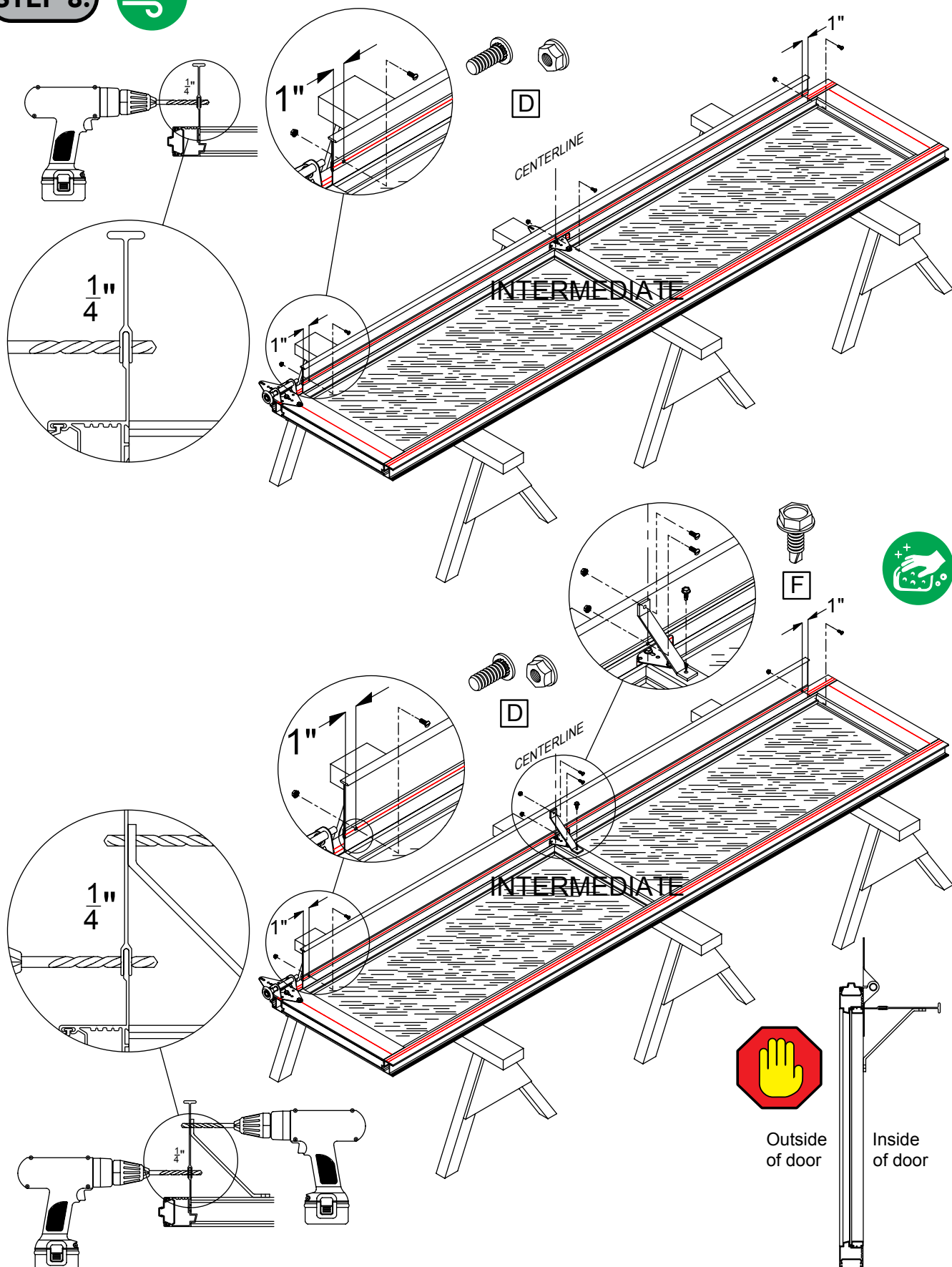
Outside of door

Inside of door



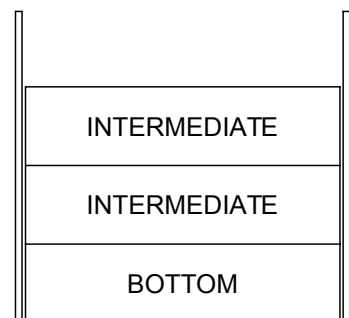
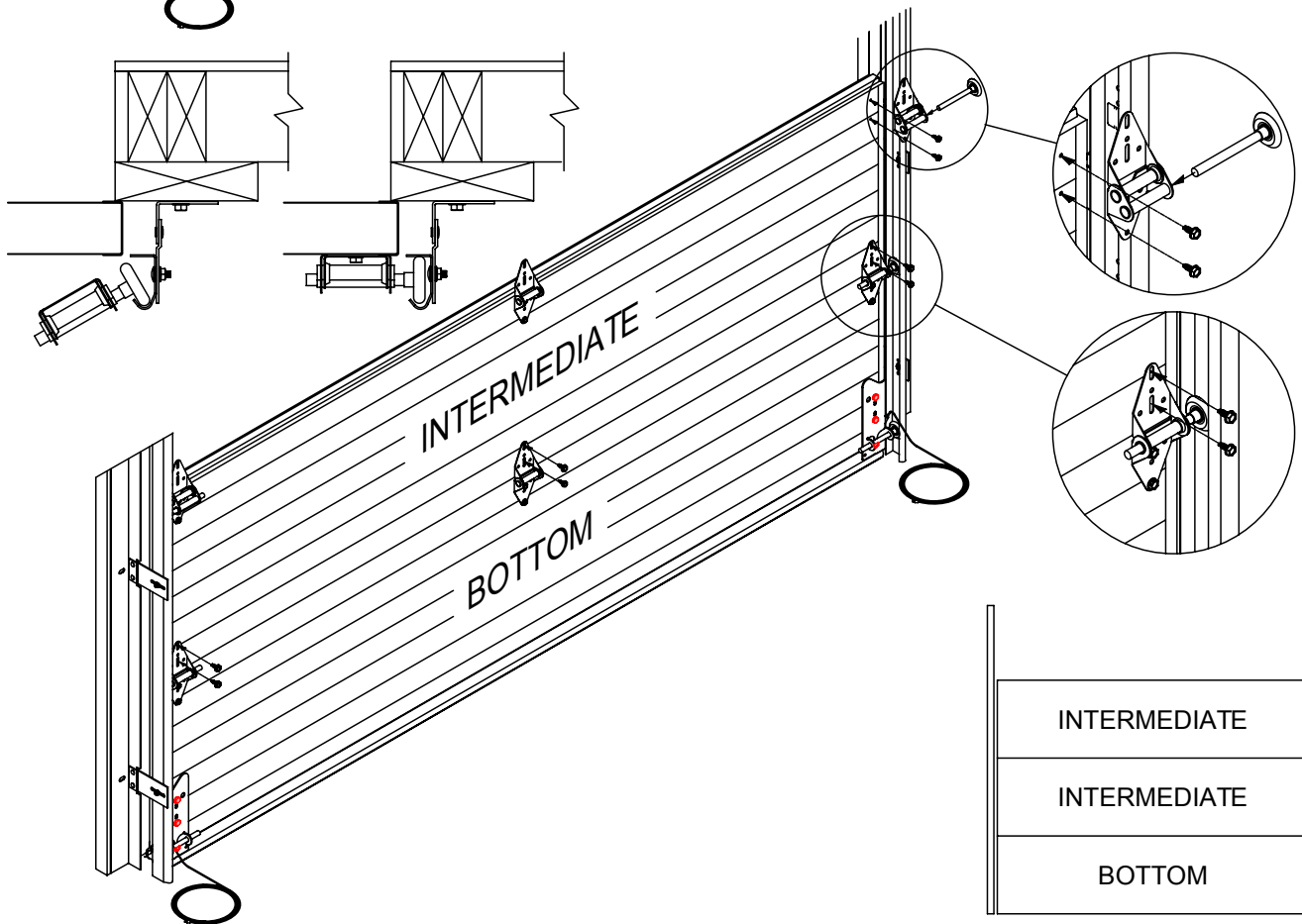
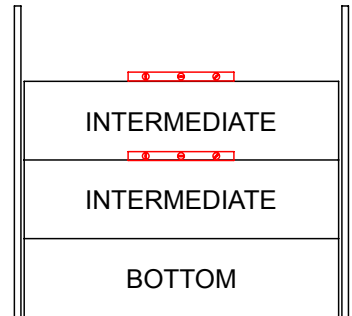
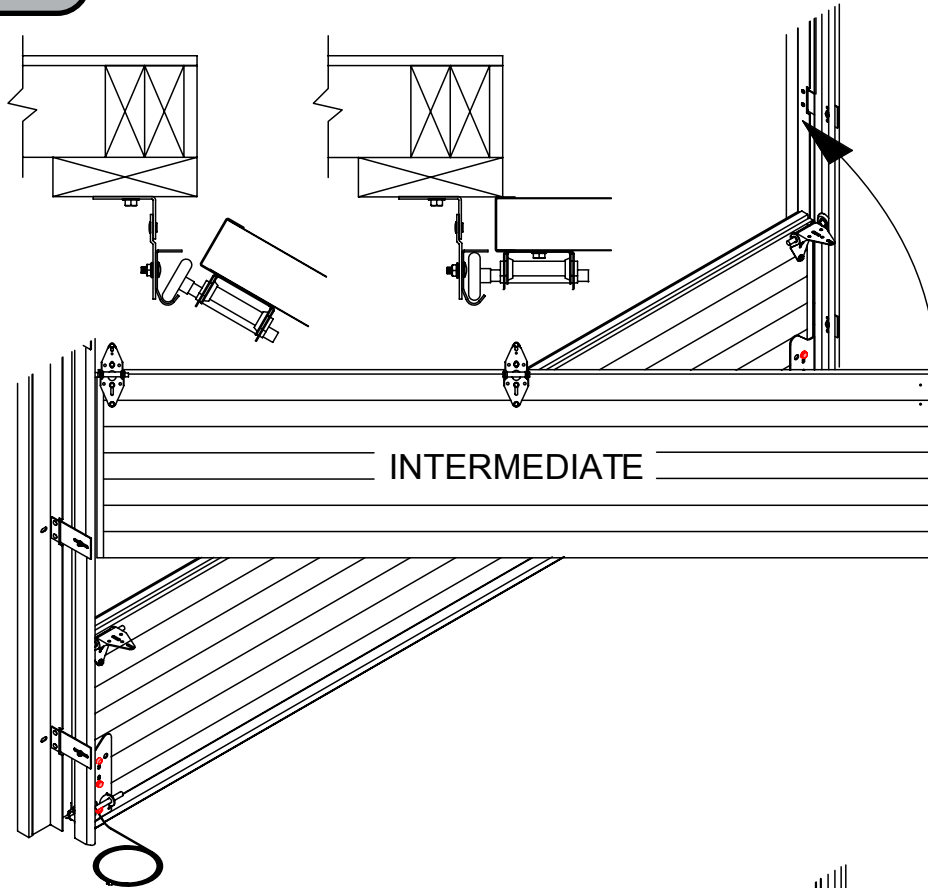
CA 315 & CA 315i
CA 320 & CA 320i

STEP 8:

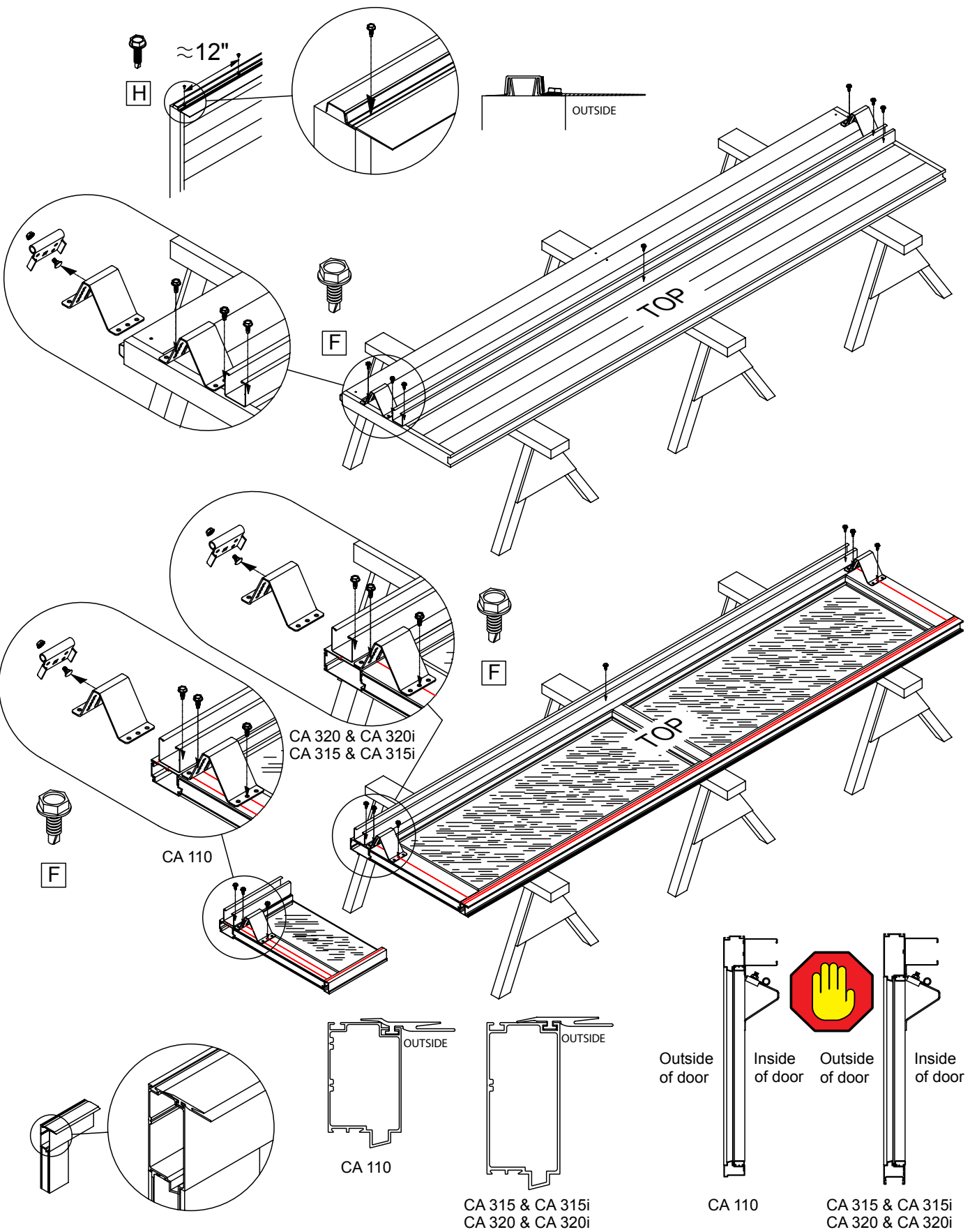


CA 320 & CA 320i

STEP 9:



STEP 11:



STEP 12:



Choose next Step.

STEP 13A:

Front Torsion Spring

STEP 13B:

High Lift
Front Torsion Spring

STEP 13C:

Vertical Lift
Front Torsion Spring

STEP 35:

Extension Spring

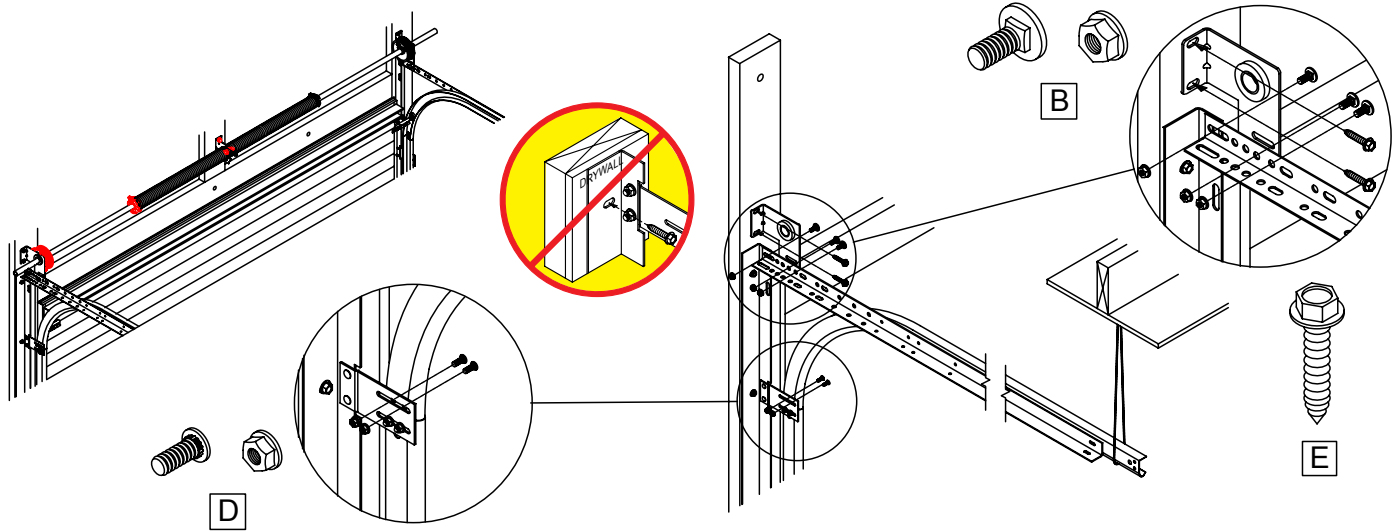
STEP 20:

Front Low-Headroom
Torsion Spring

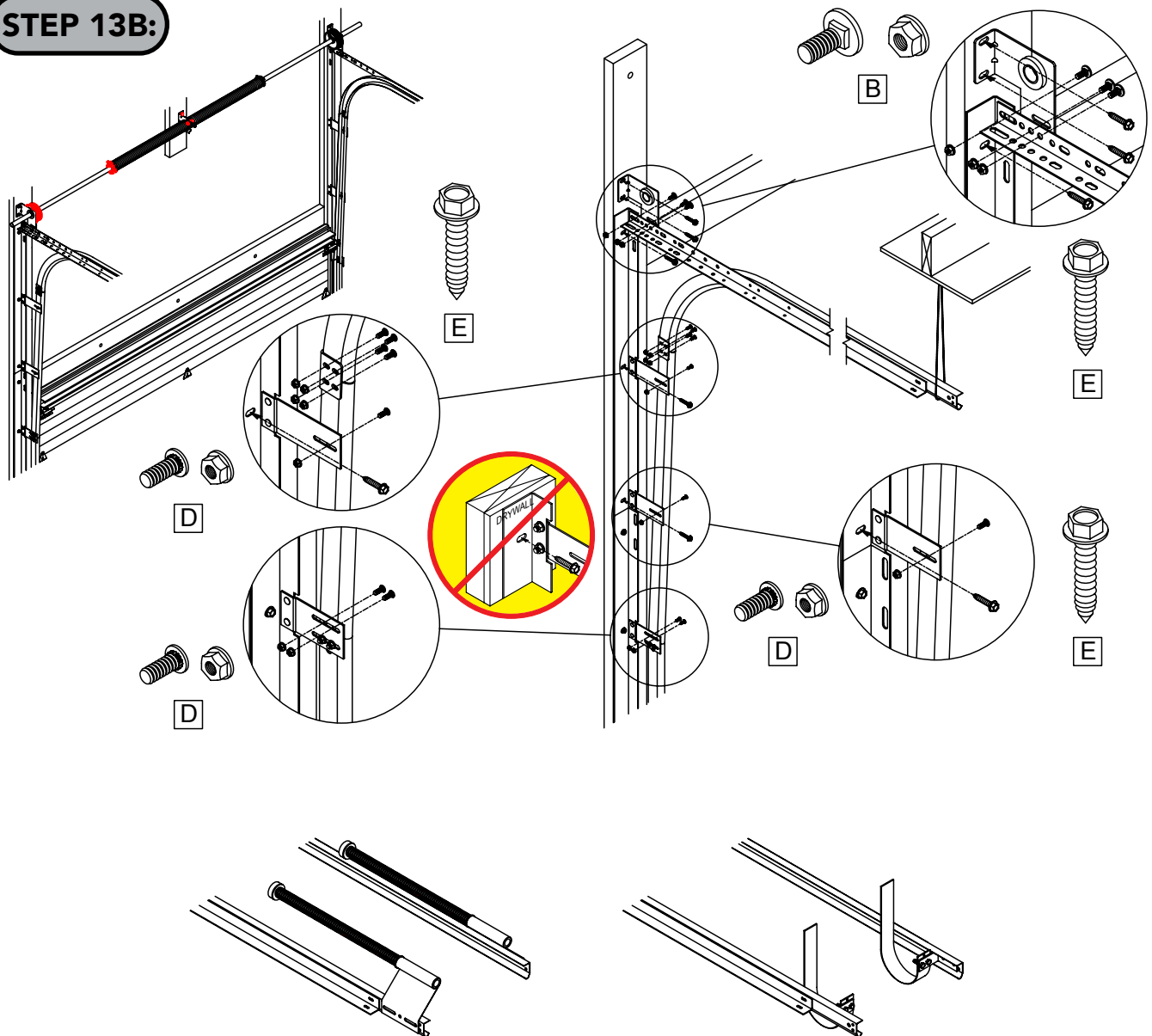
STEP 27:

Rear Low-Headroom
Torsion Spring

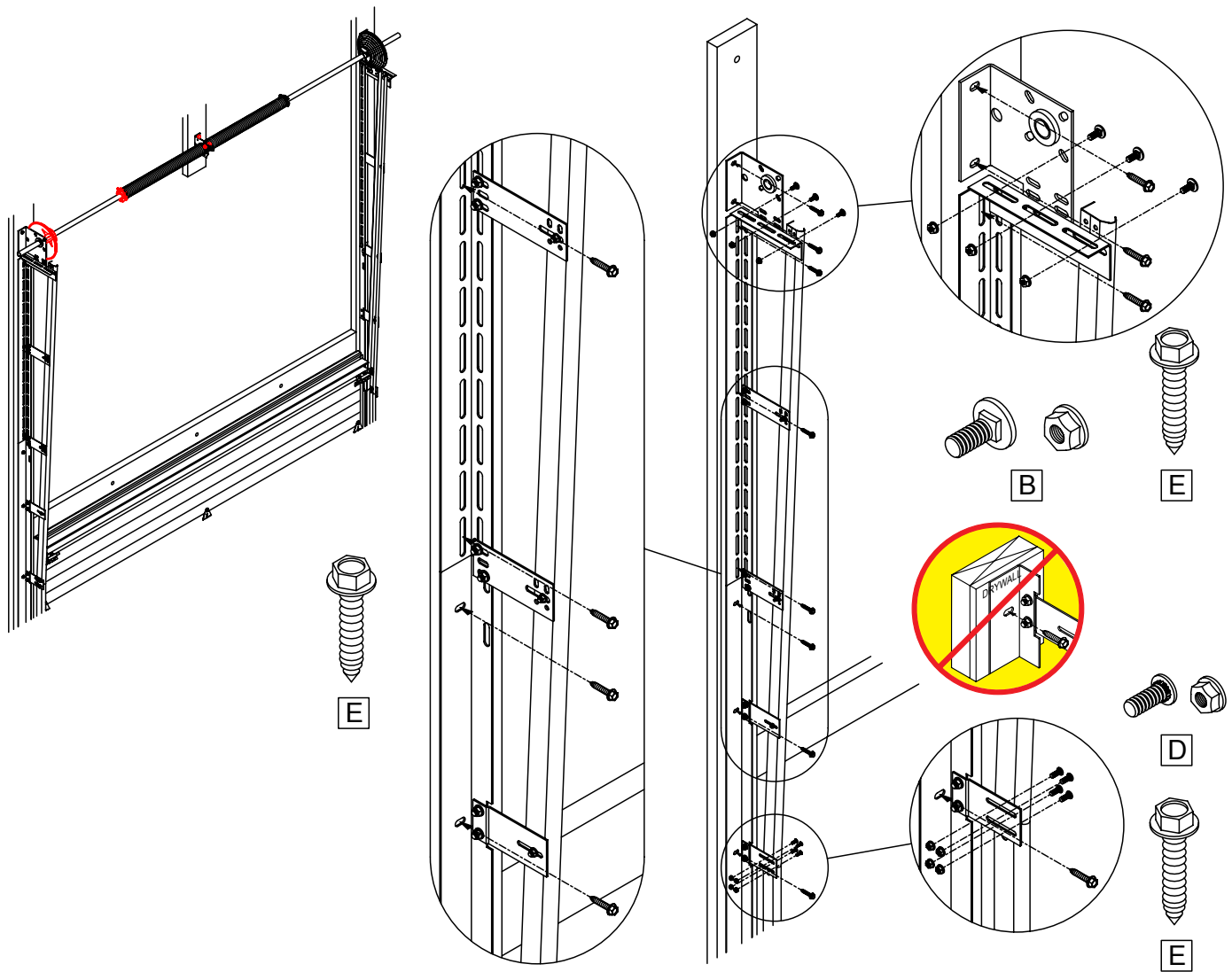
STEP 13A:



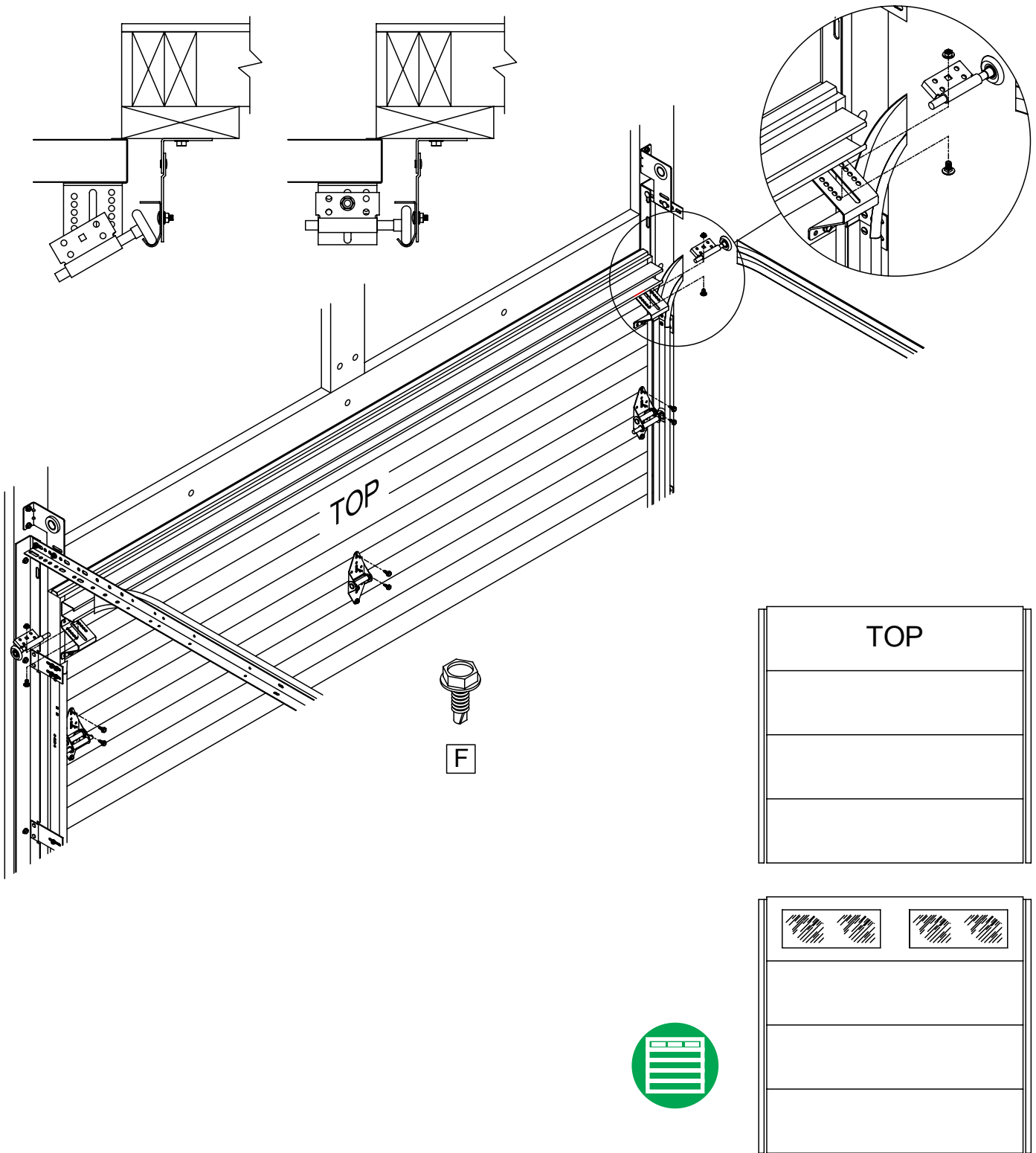
STEP 13B:



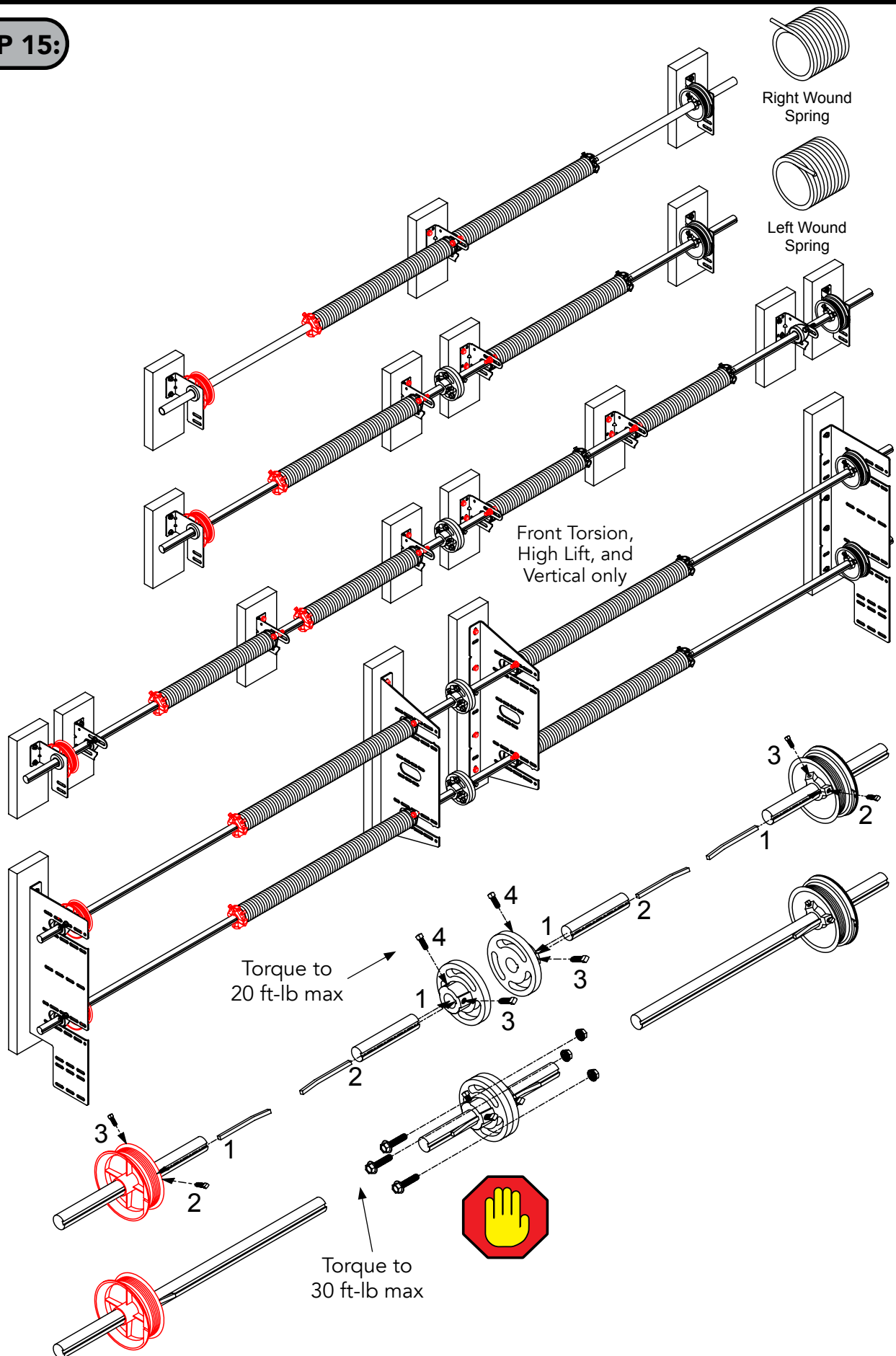
STEP 13C:



STEP 14:



STEP 15:





Choose next Step.

STEP 16:

Front Torsion Spring,
High Lift - Front Torsion,
Vertical Lift - Front Torsion
Low-Headroom Inside Hookup

STEP 20:

Front Low-Headroom
Torsion Spring

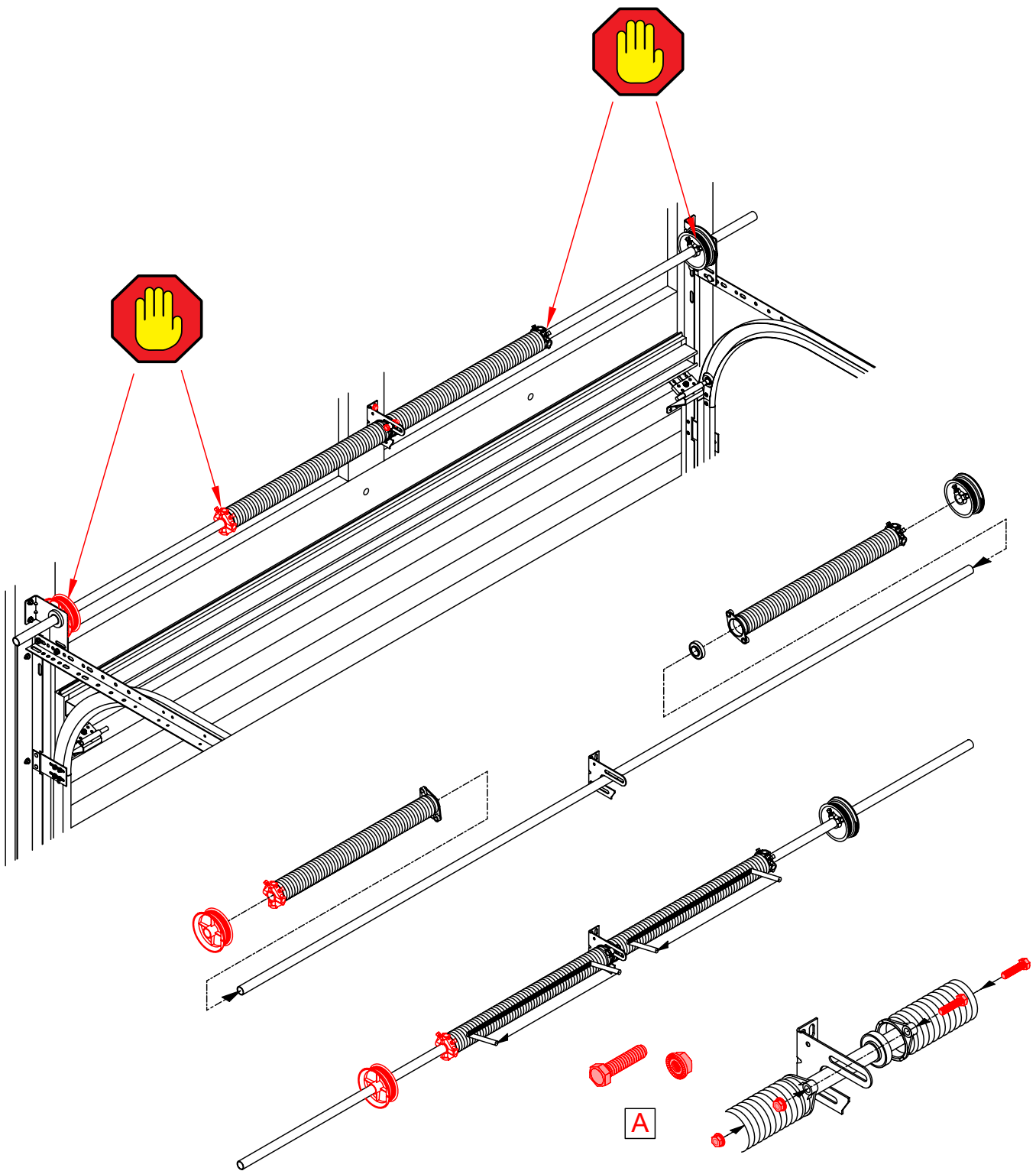
STEP 27:

Rear Low-Headroom
Torsion Spring

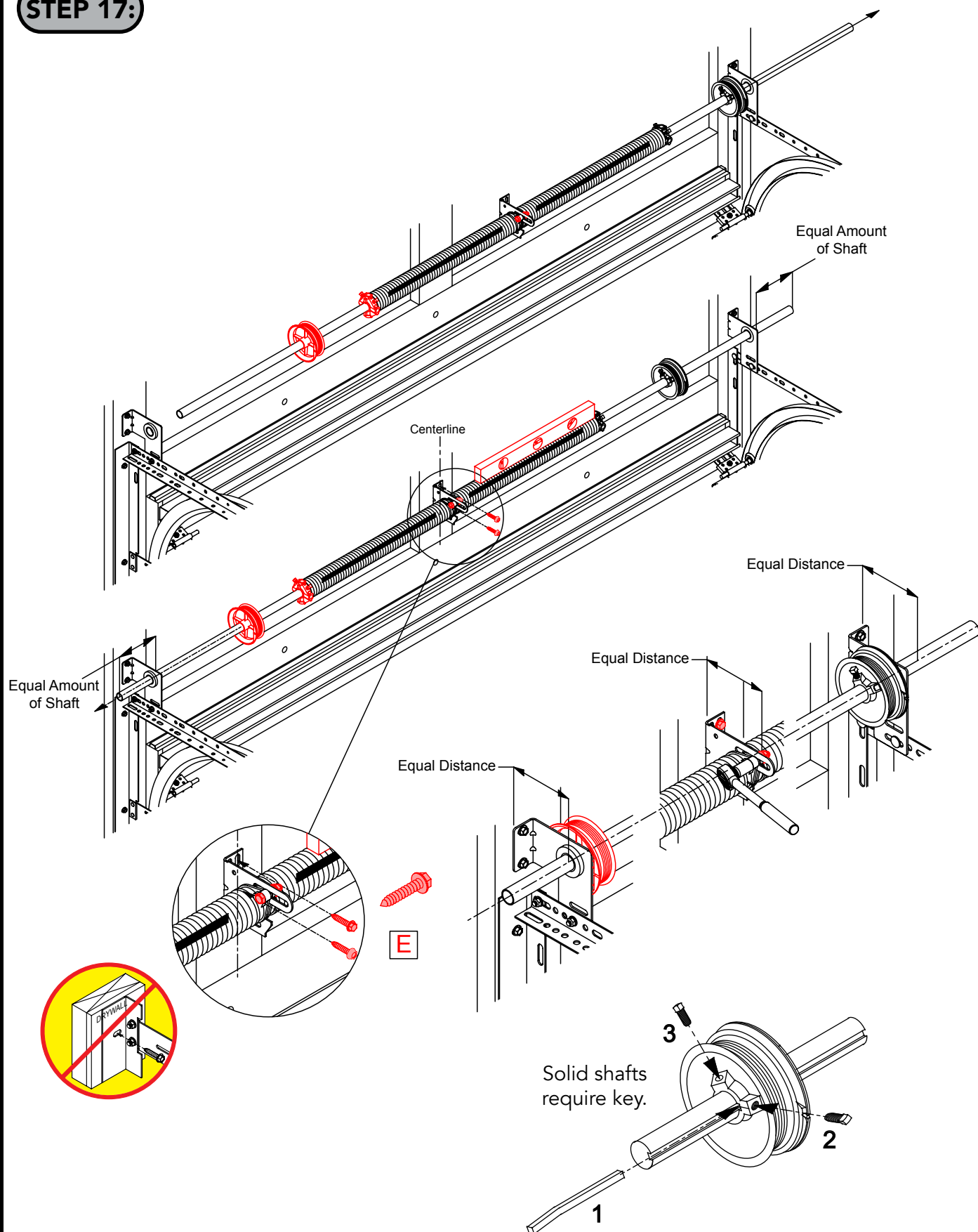
STEP 35:

Extension Springs

STEP 16:

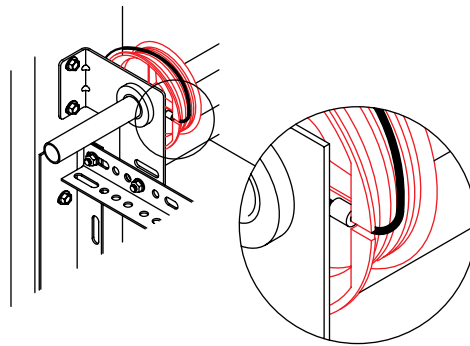
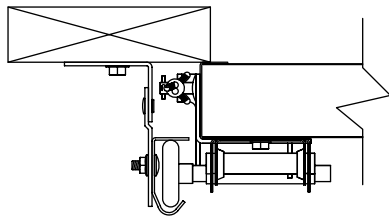
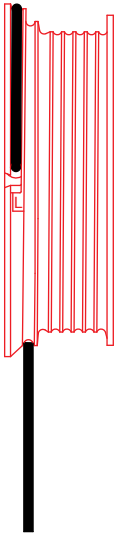
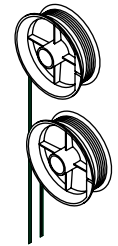


STEP 17:

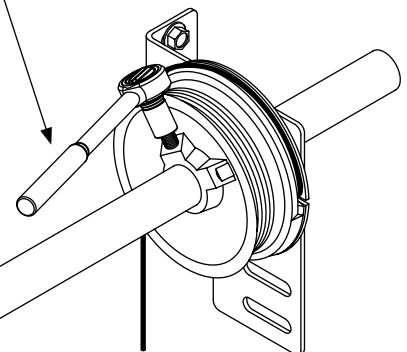
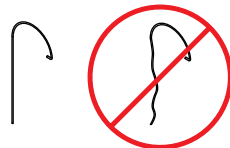
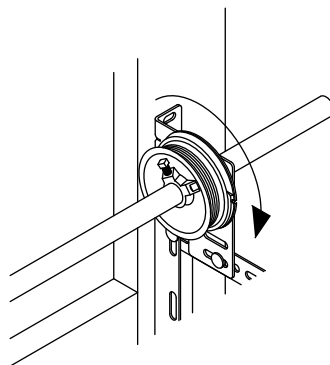
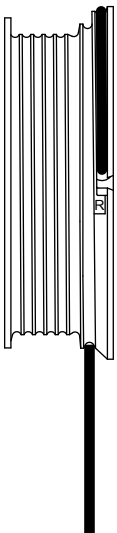
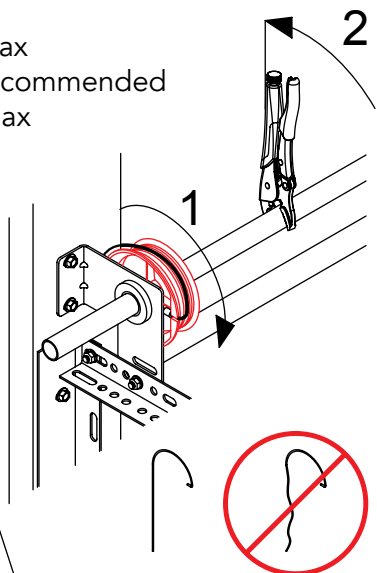
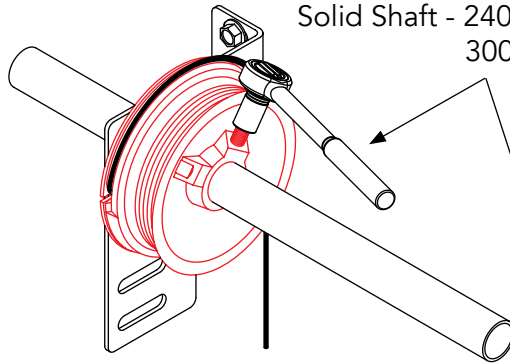


STEP 18:

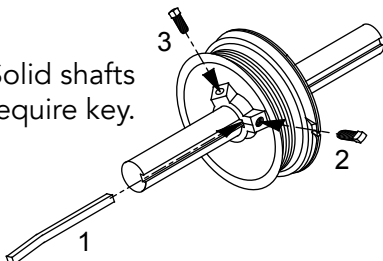
Double Shaft



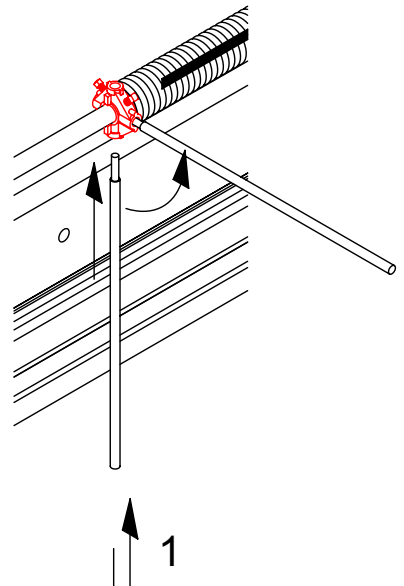
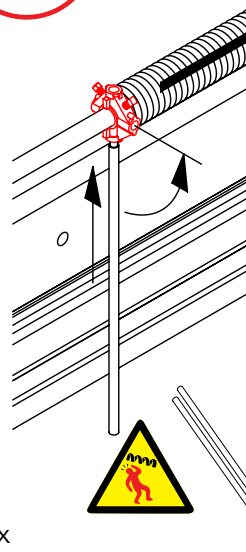
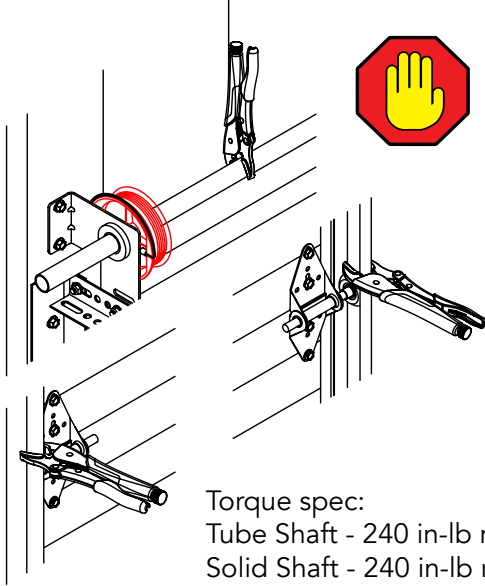
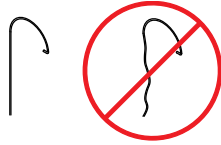
Torque spec:
Tube Shaft - 240 in-lb max
Solid Shaft - 240 in-lb recommended
300 in-lb max



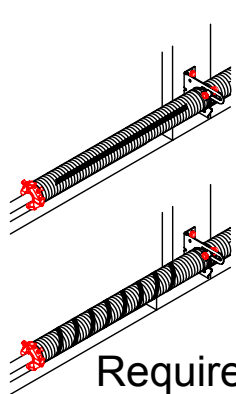
Solid shafts
require key.



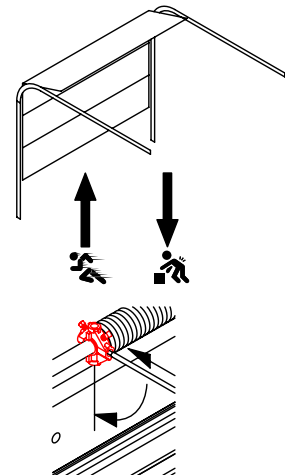
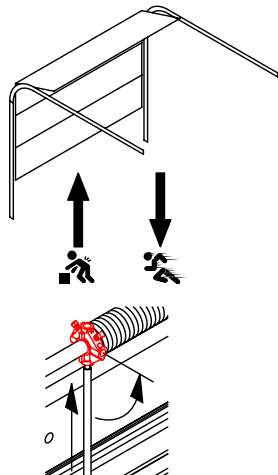
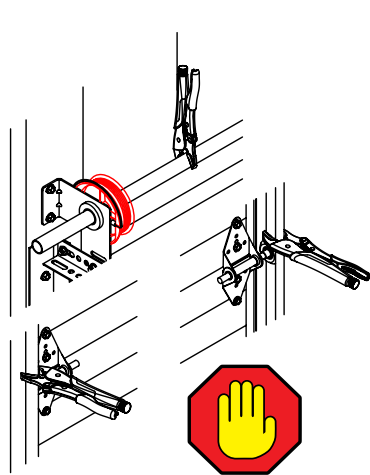
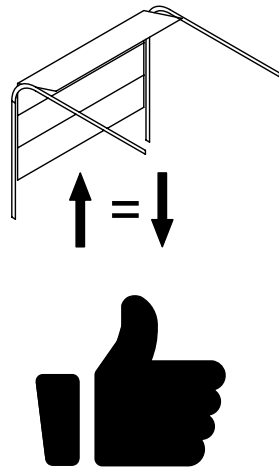
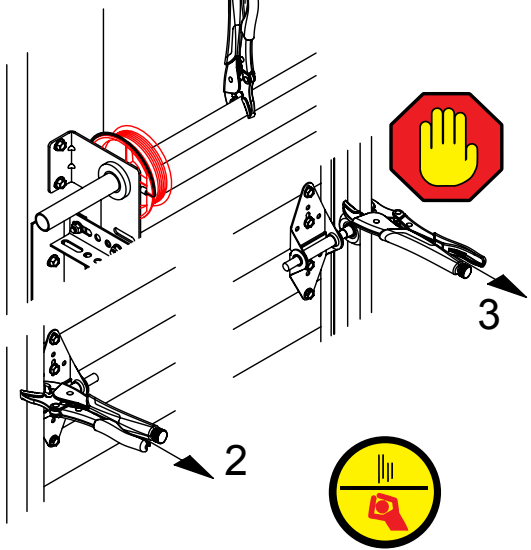
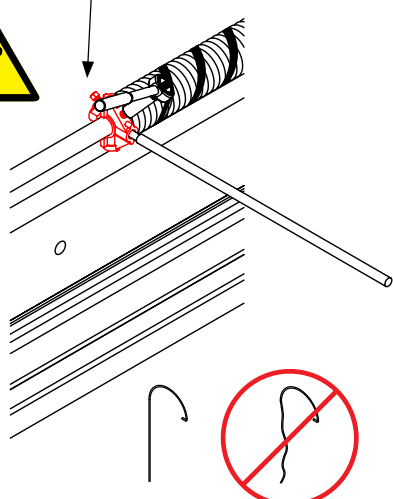
STEP 19:



Torque spec:
Tube Shaft - 240 in-lb max
Solid Shaft - 240 in-lb recommended
300 in-lb max

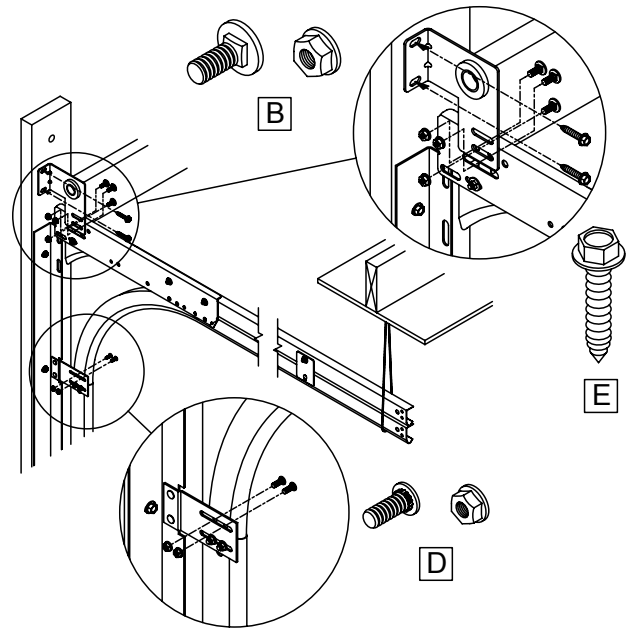
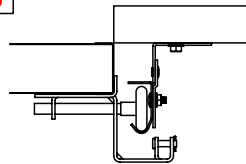
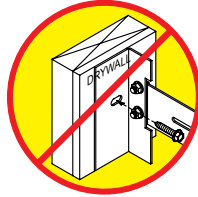
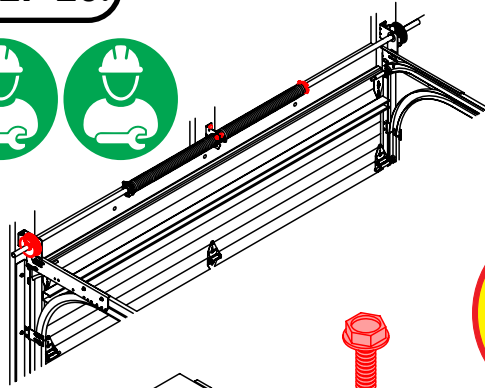


Required #
of Turns

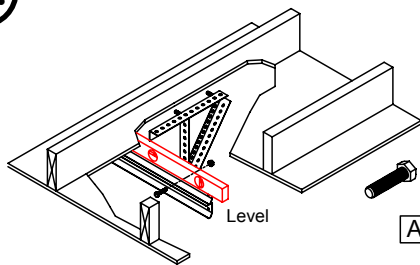


STOP! The installation of the Front Torsion Spring is **COMPLETE!**
Continue to page 44 for handle installation.

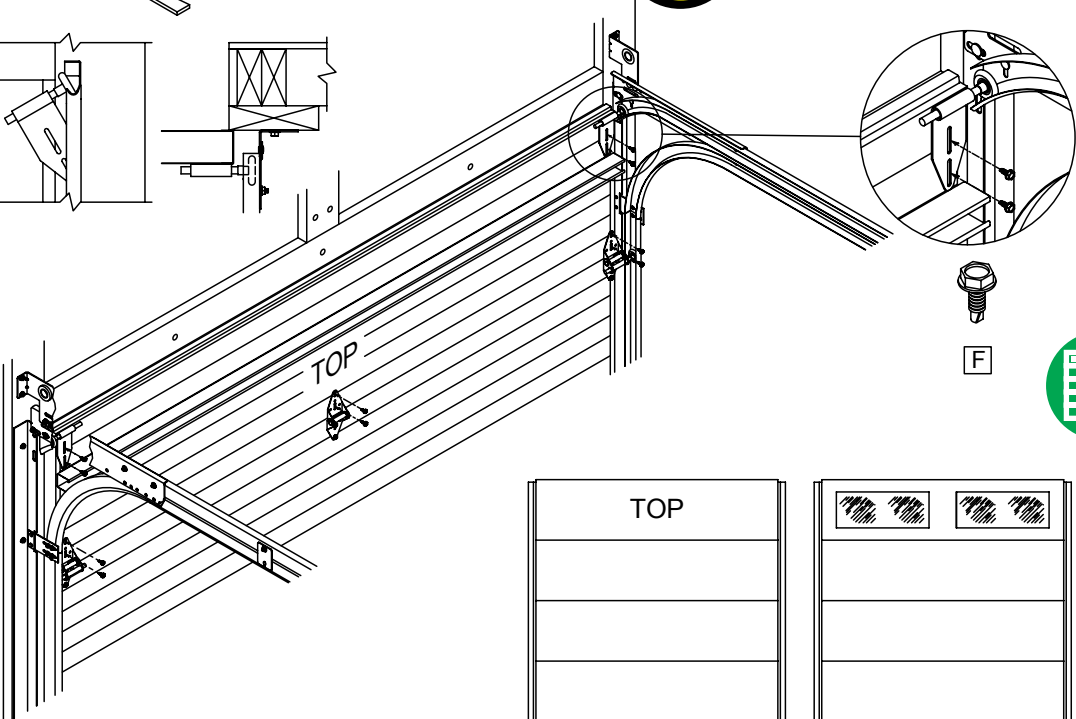
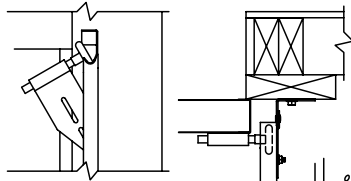
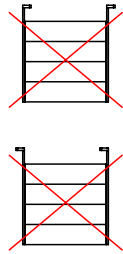
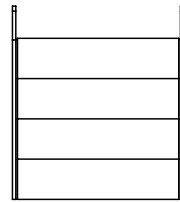
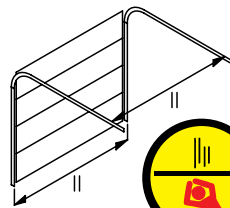
STEP 20:



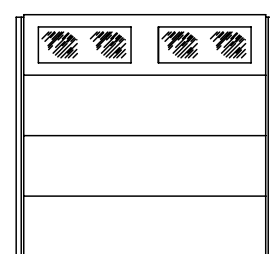
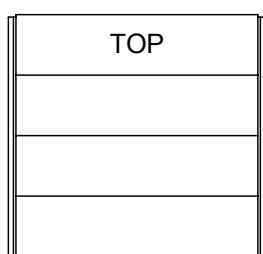
STEP 21:



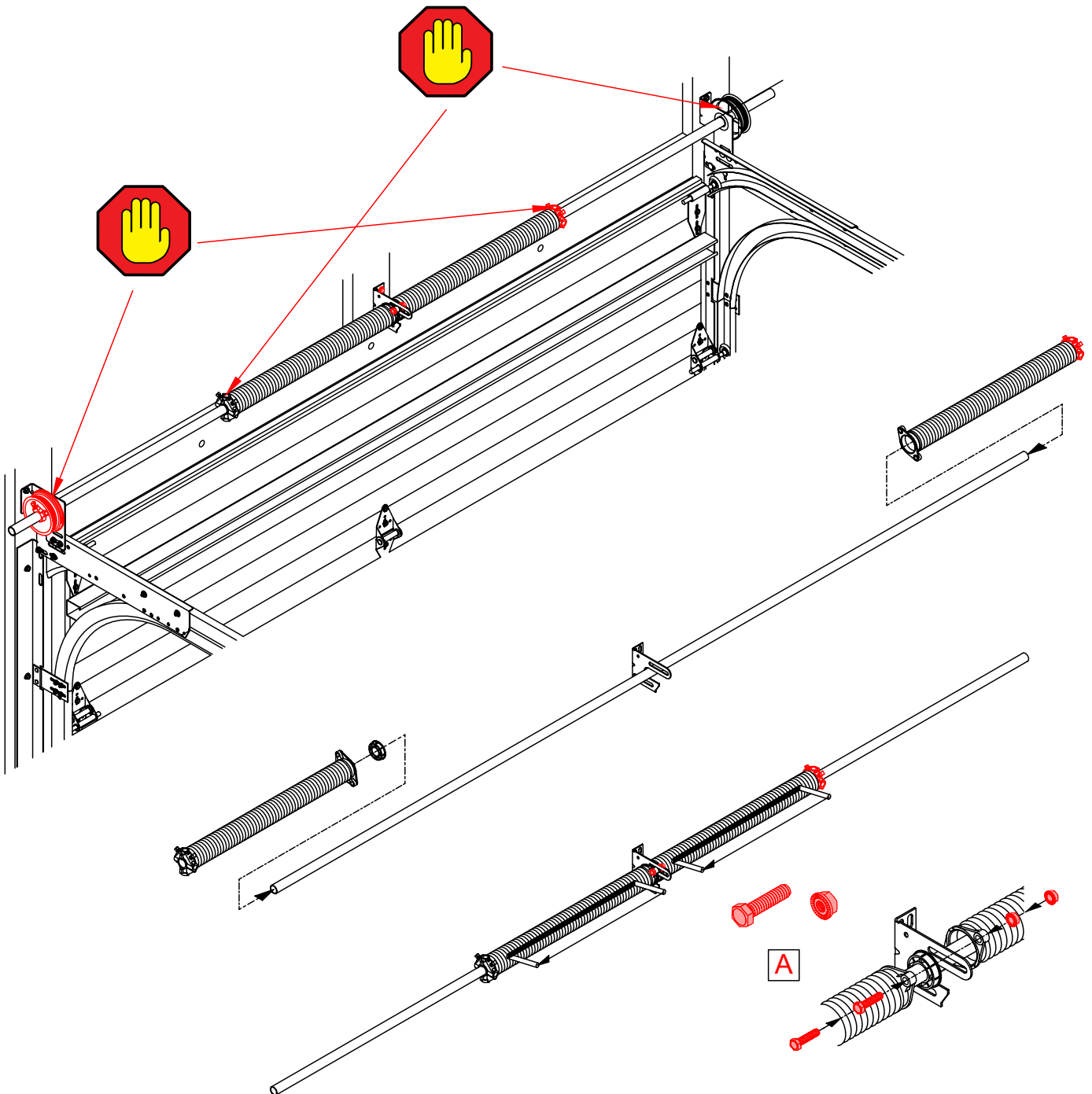
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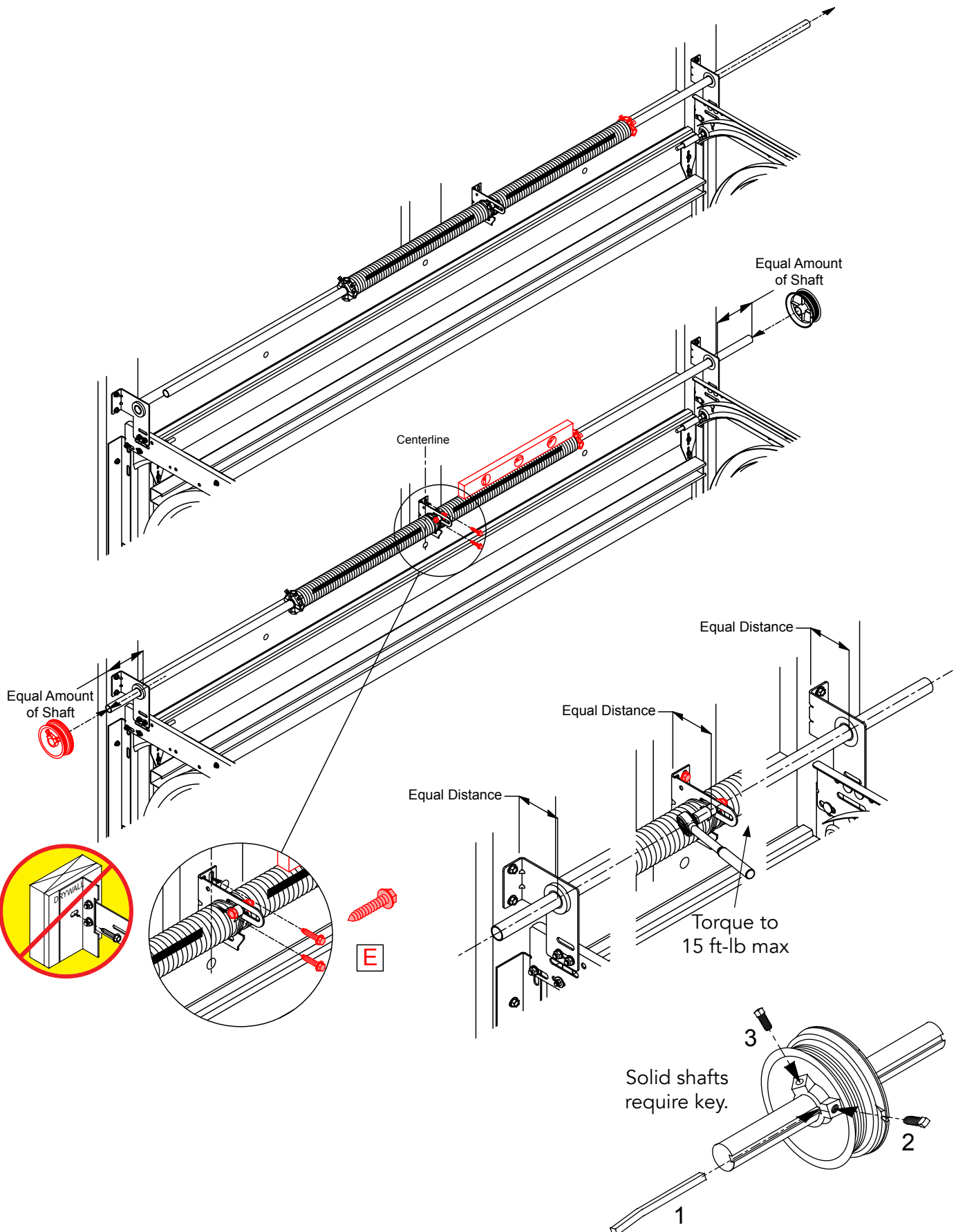
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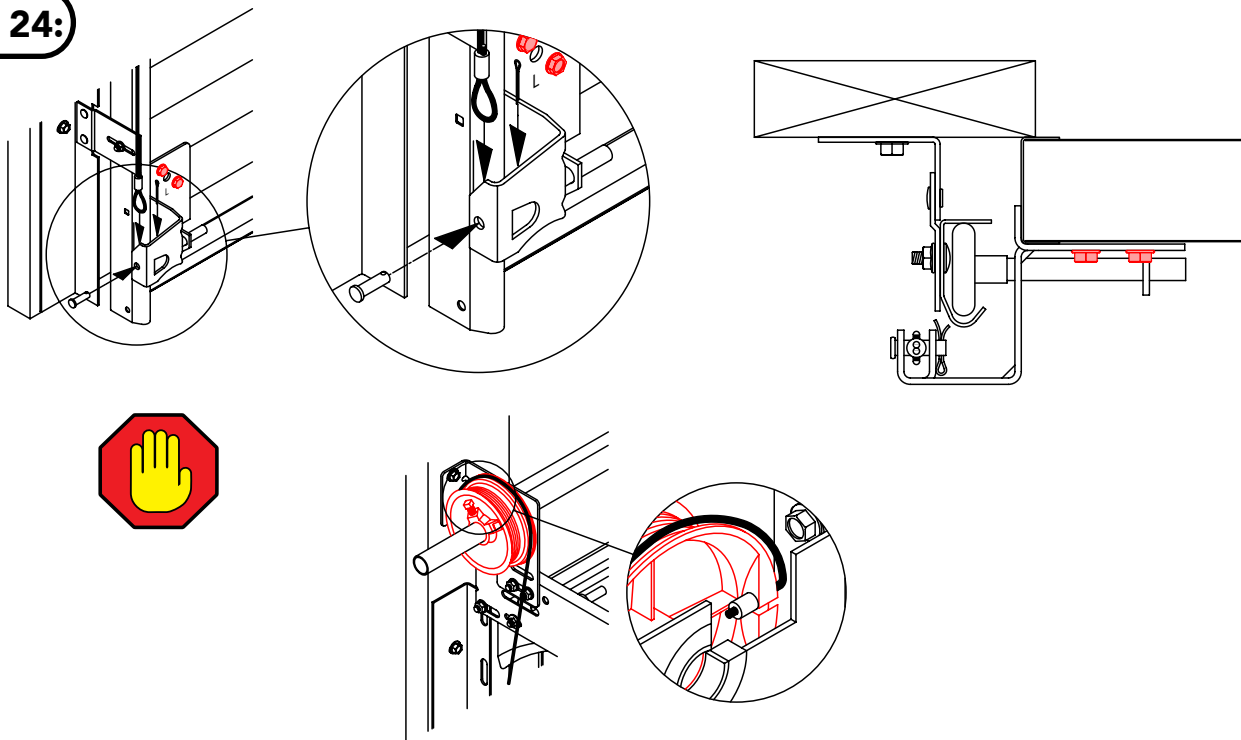
STEP 22:



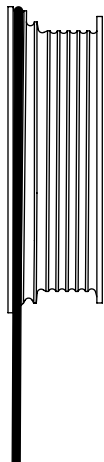
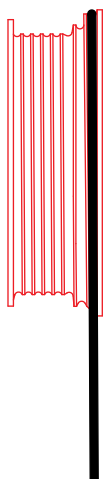
STEP 23:



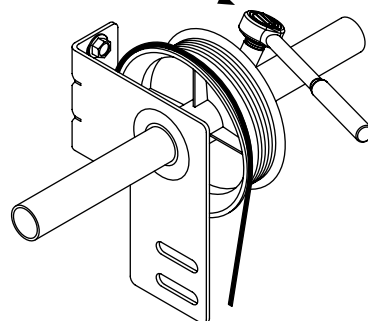
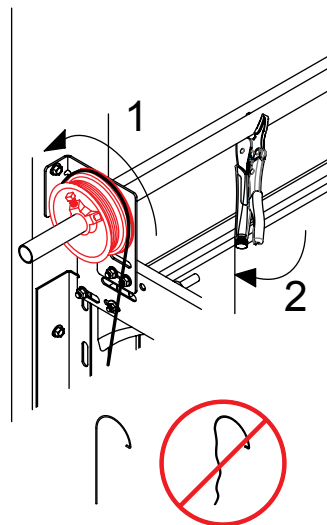
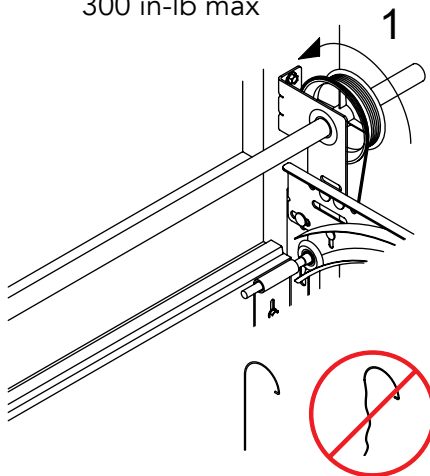
STEP 24:



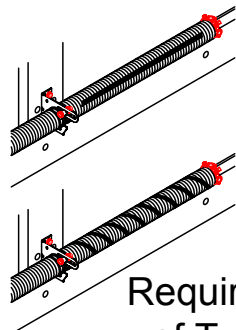
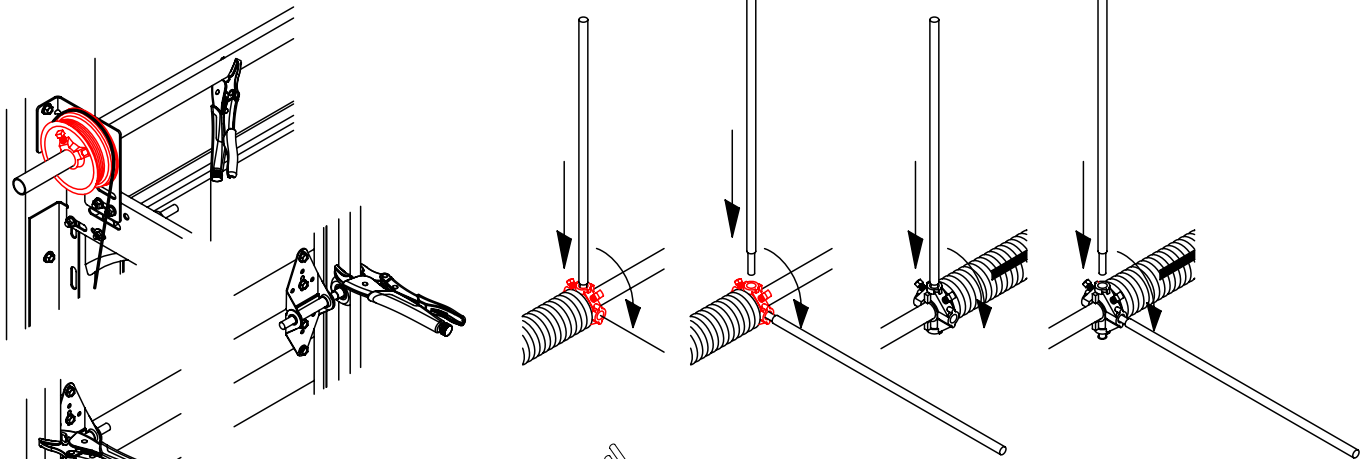
STEP 25:



Torque spec:
 Tube Shaft - 240 in-lb max
 Solid Shaft - 240 in-lb recommended
 300 in-lb max

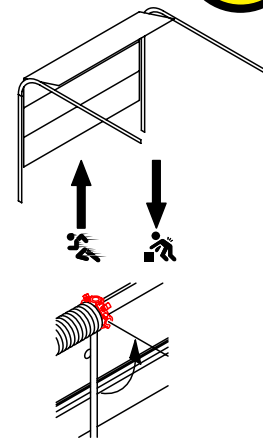
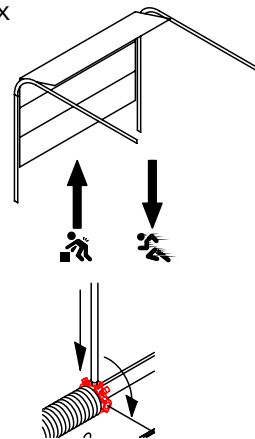
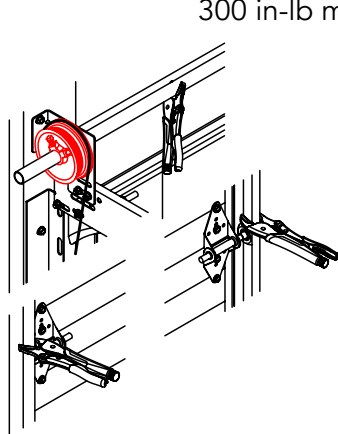
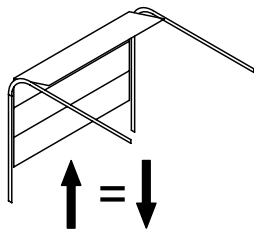
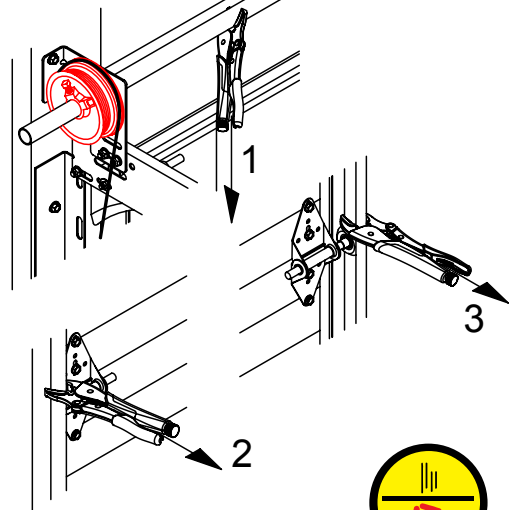


STEP 26:



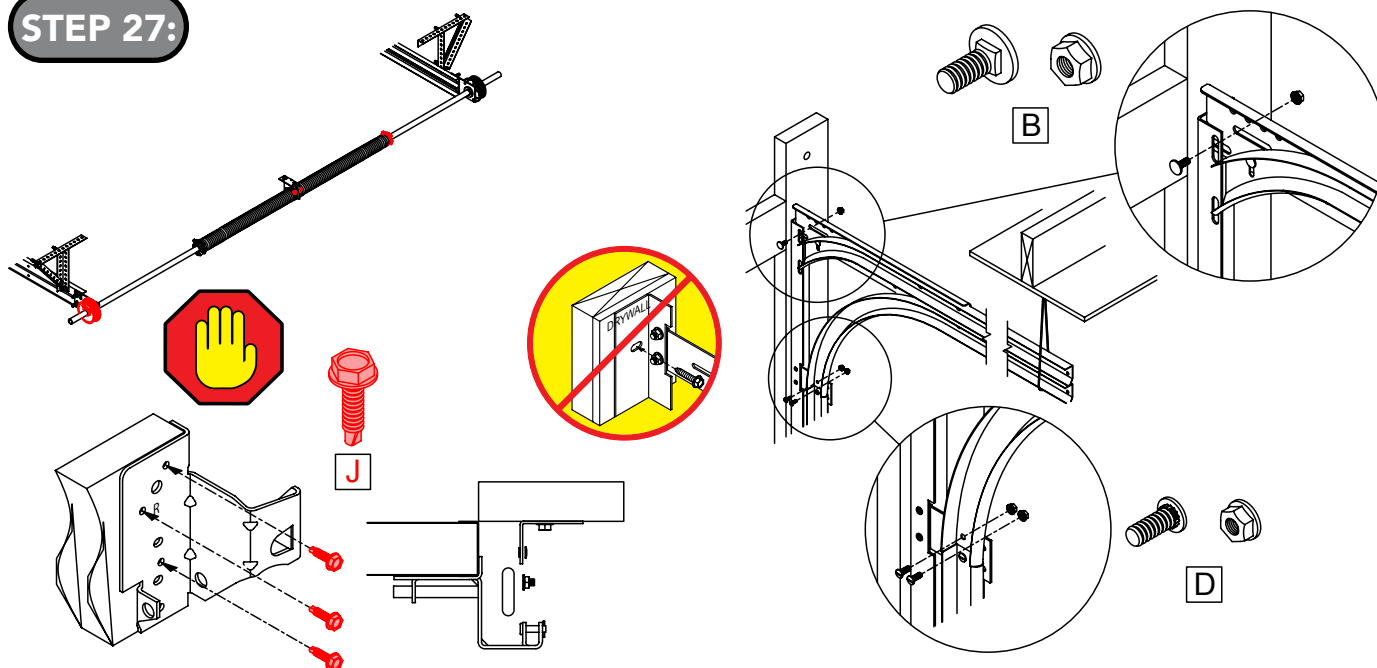
Required #
of Turns

Torque spec:
Tube Shaft - 240 in-lb max
Solid Shaft - 240 in-lb recommended
300 in-lb max

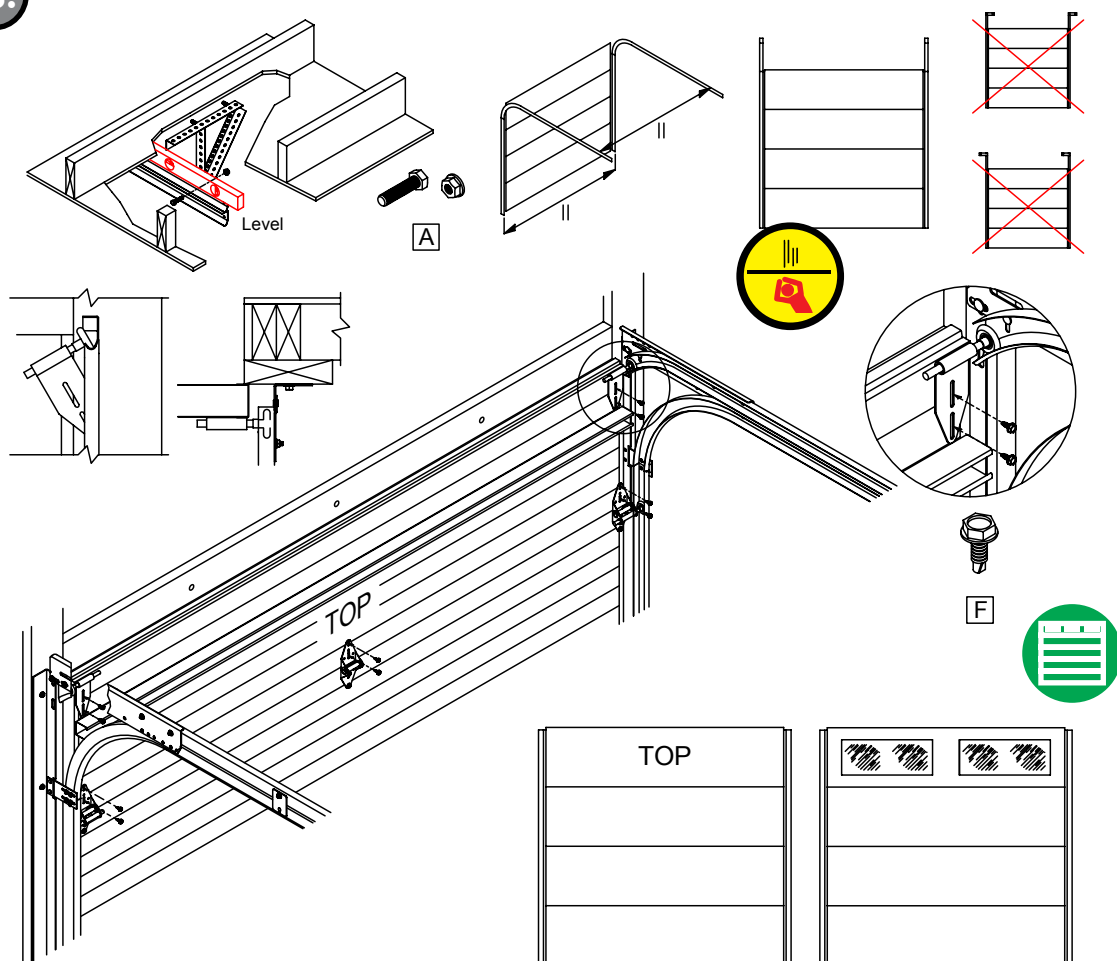


STOP! The installation of the Front Low-Headroom is **COMPLETE!**
Continue to page 44 for handle installation.

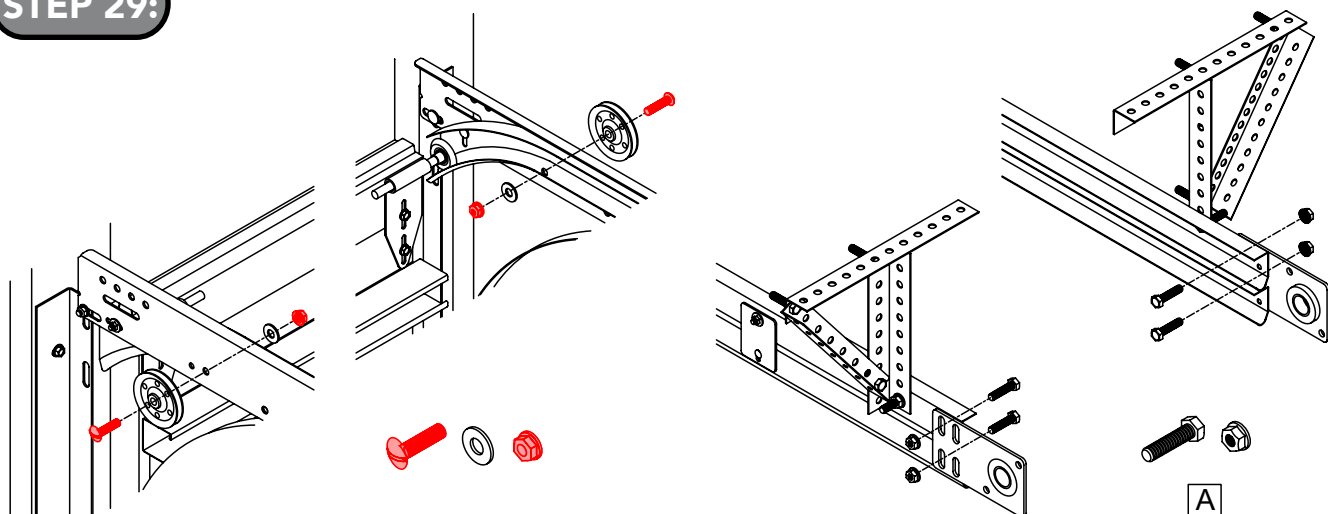
STEP 27:



STEP 28:

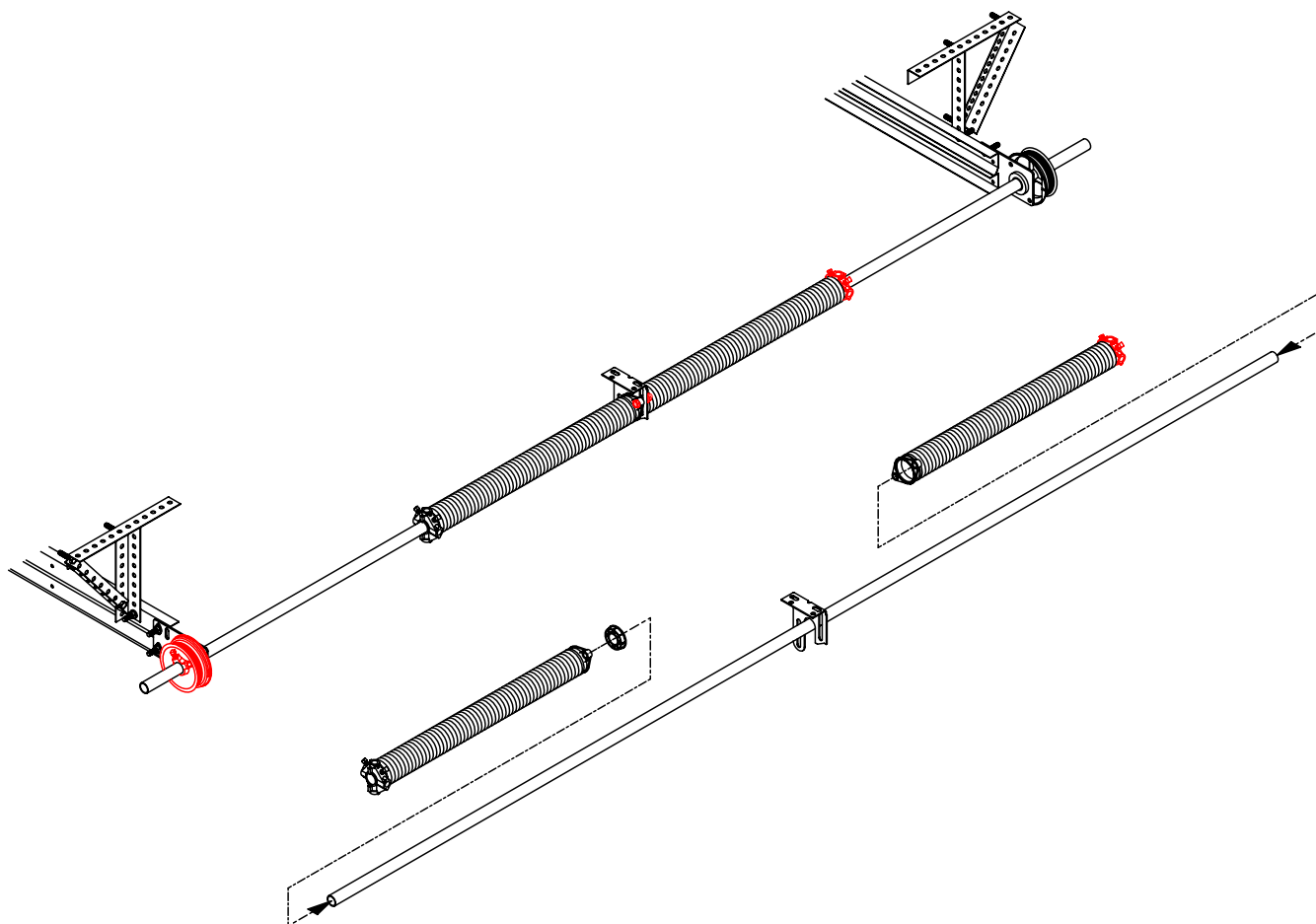


STEP 29:

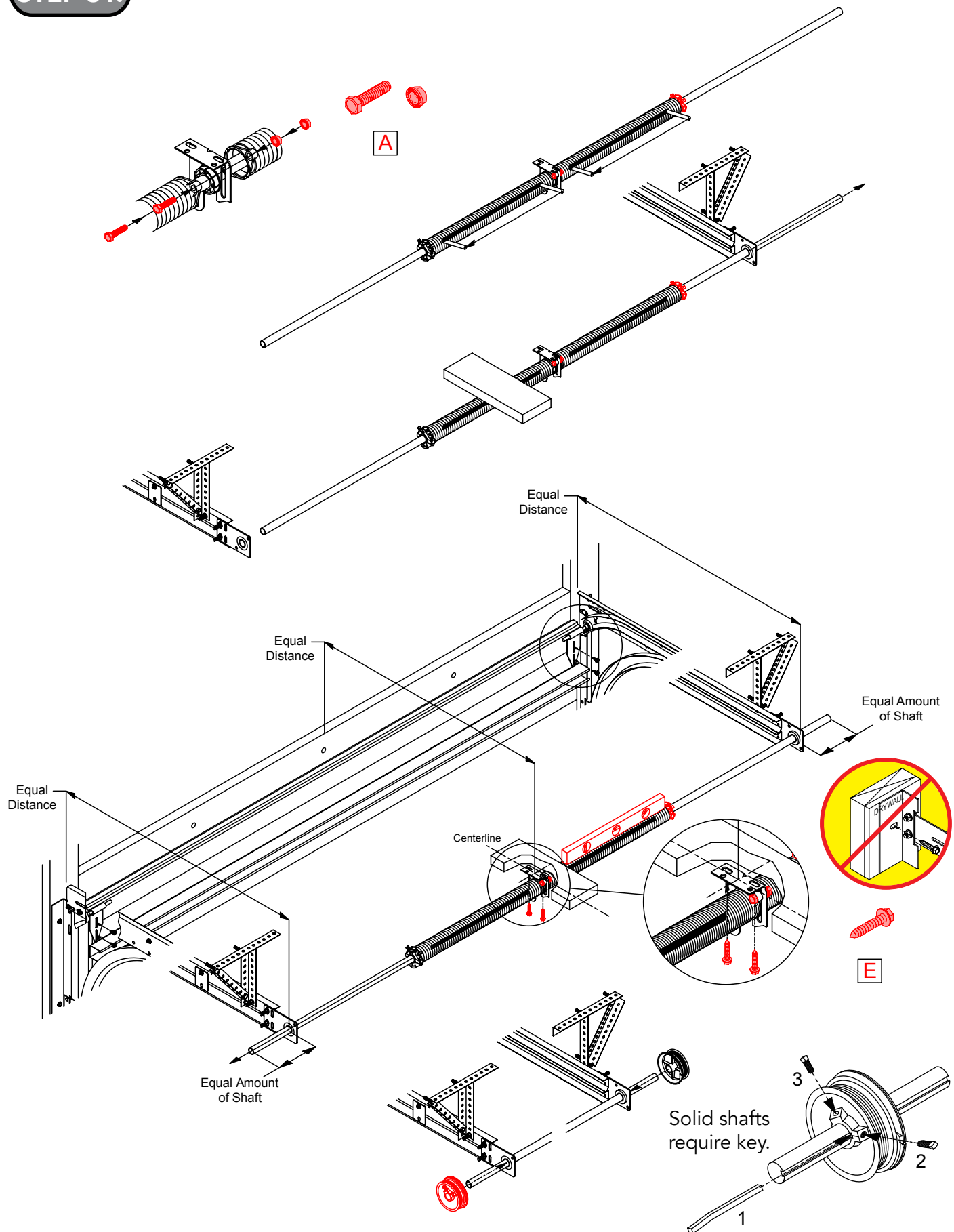


Cable sheave already installed on track
for commercial rear torsion doors.
Shown only for maintenance reference.

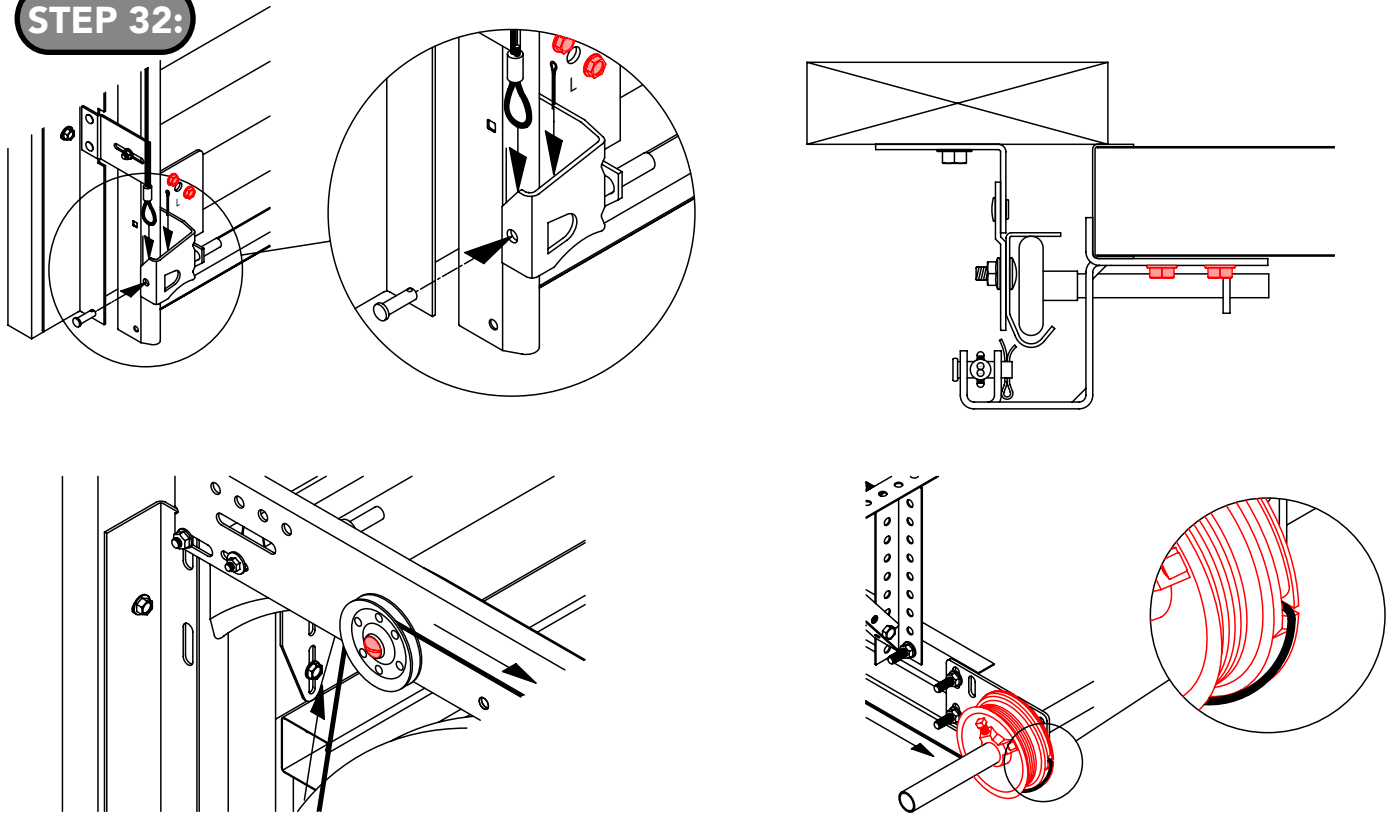
STEP 30:



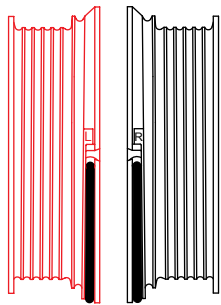
STEP 31:



STEP 32:

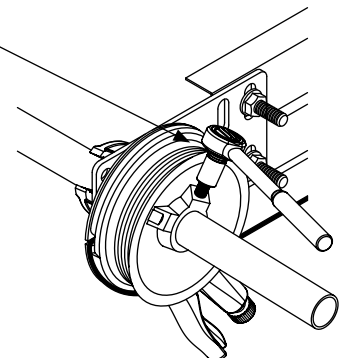
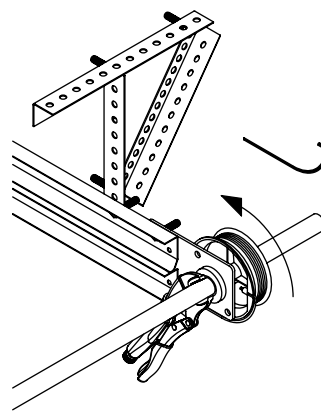
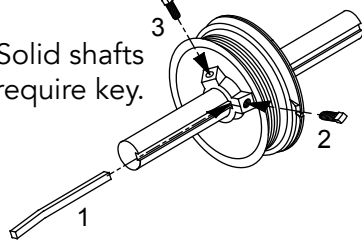


STEP 33:

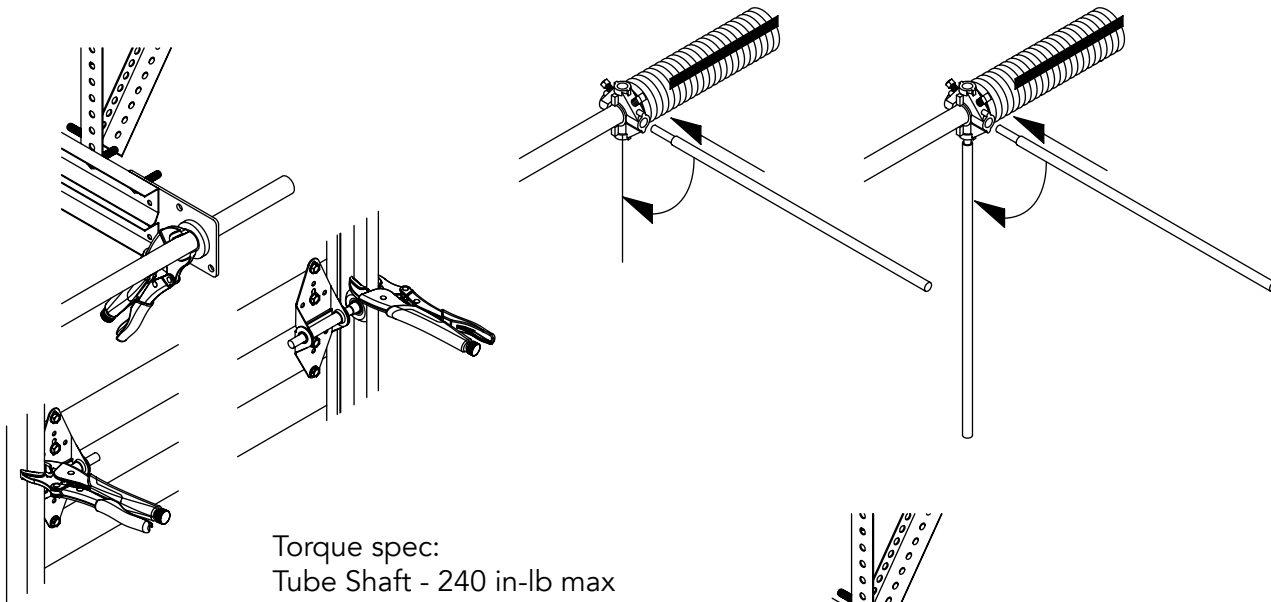


Torque spec:
 Tube Shaft - 240 in-lb max
 Solid Shaft - 240 in-lb recommended
 300 in-lb max

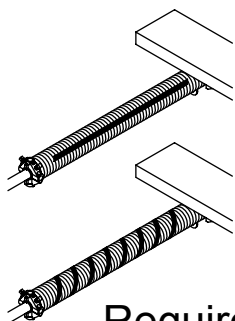
Solid shafts
 require key.



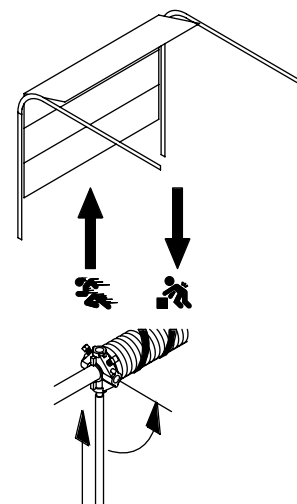
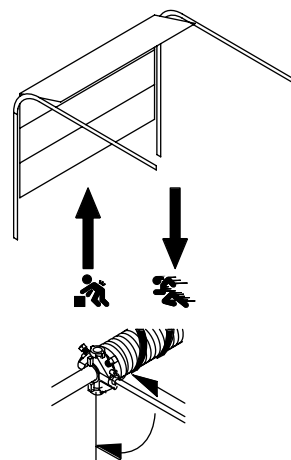
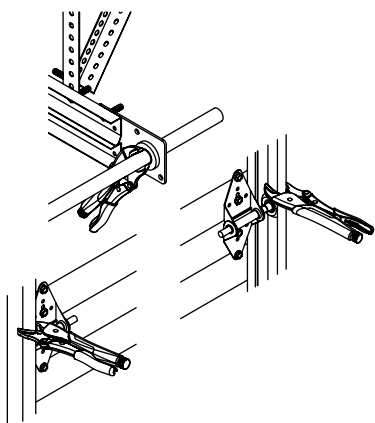
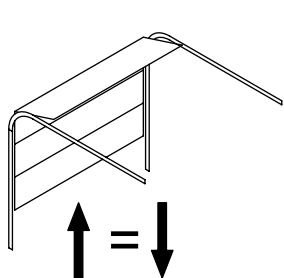
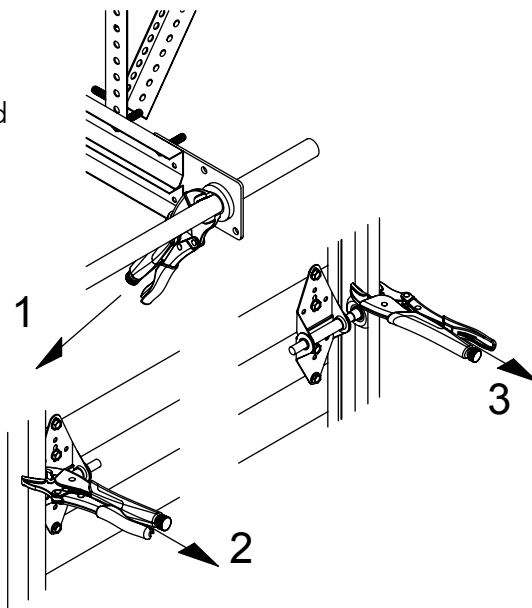
STEP 34:



Torque spec:
 Tube Shaft - 240 in-lb max
 Solid Shaft - 240 in-lb recommended
 300 in-lb max

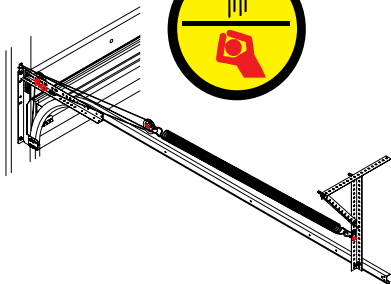


Required
 # of
 Turns

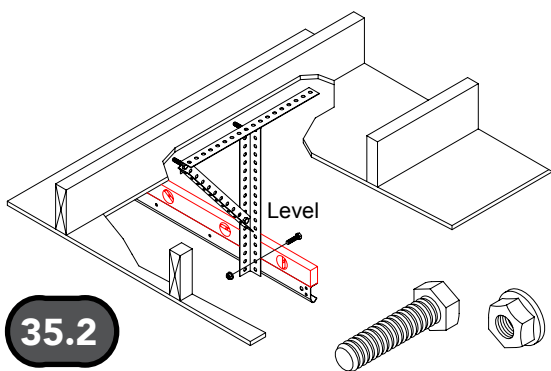
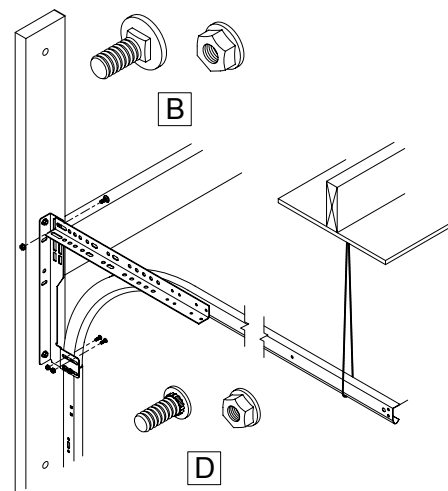


STOP! The installation of the Rear Low-Headroom Torsion Spring is COMPLETE! Continue to page 44 for handle installation.

STEP 35:

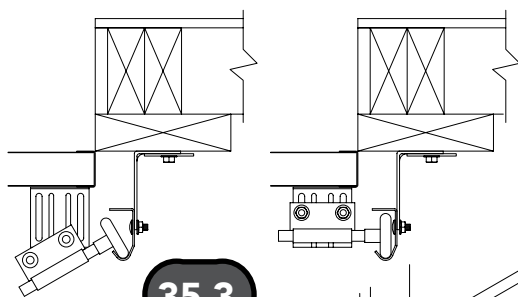
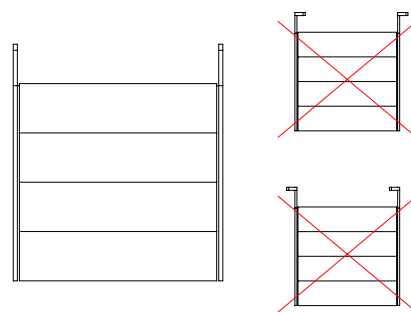
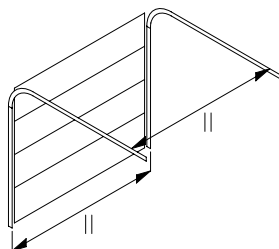


35.1



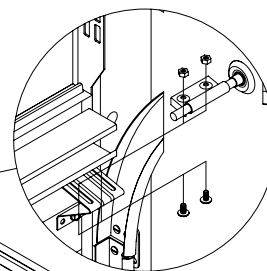
35.2

A

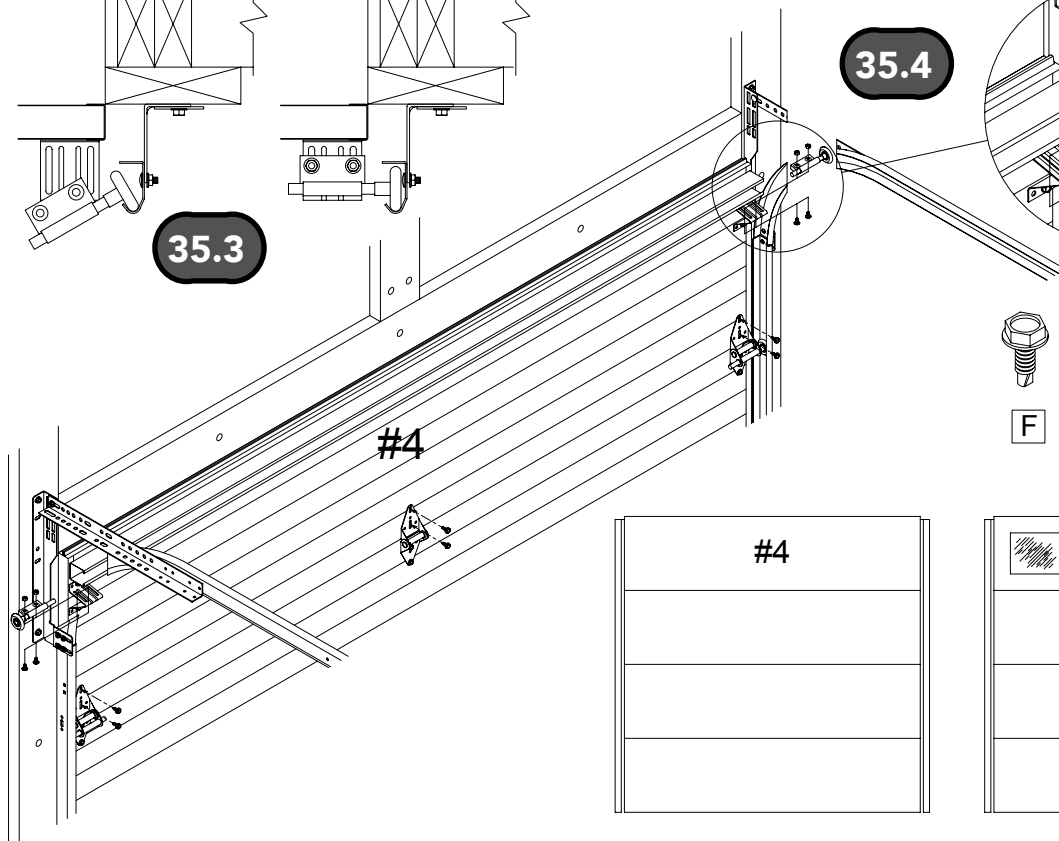


35.3

35.4

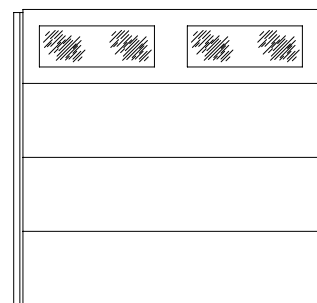
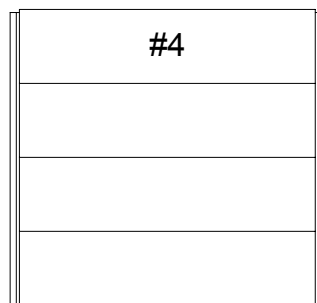


F

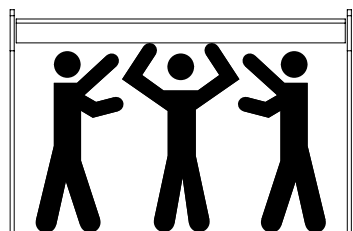


#4

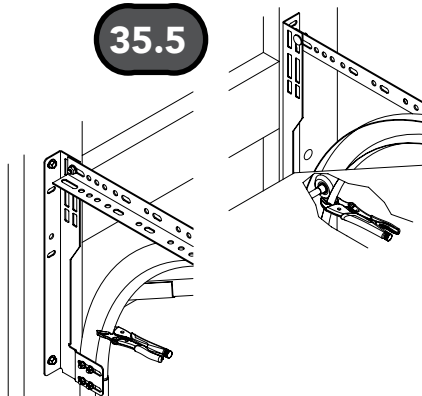
#4



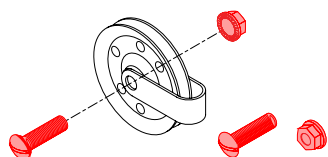
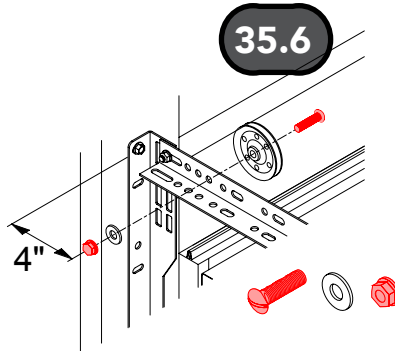
STEP 35 Cont.:



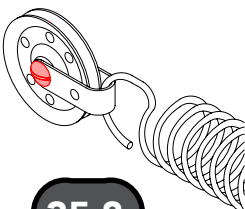
35.5



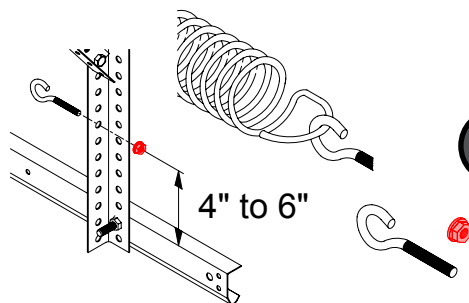
35.6



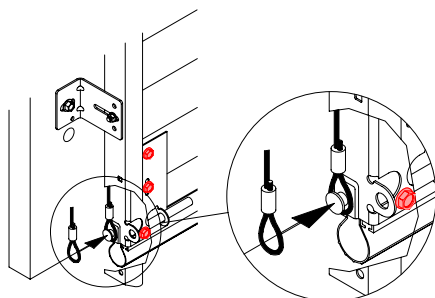
35.7



35.8

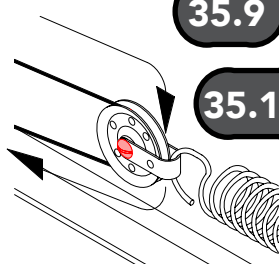
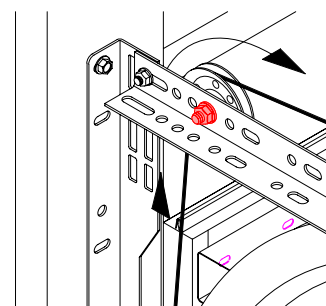
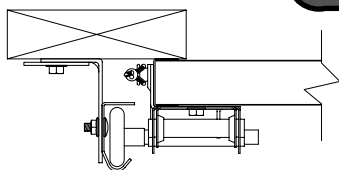


35.9

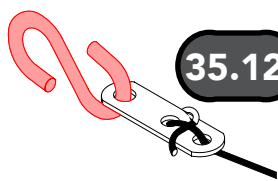


35.9

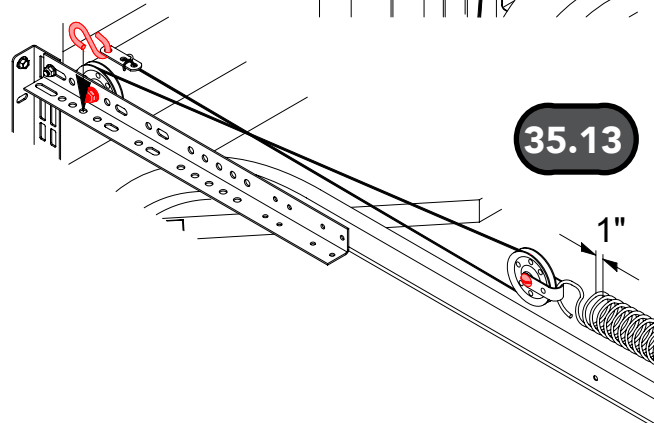
35.10



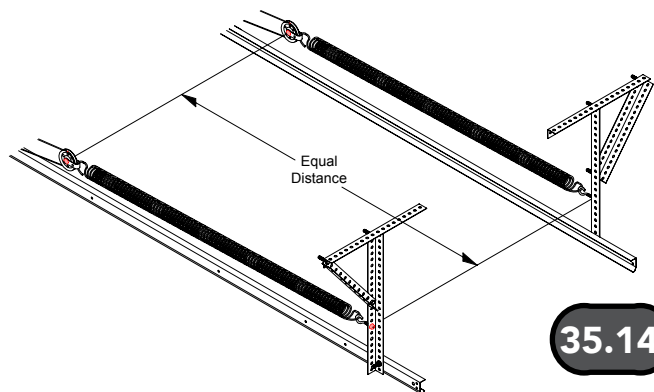
35.11



35.12



35.13

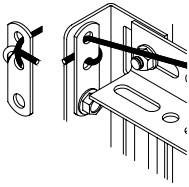


35.14

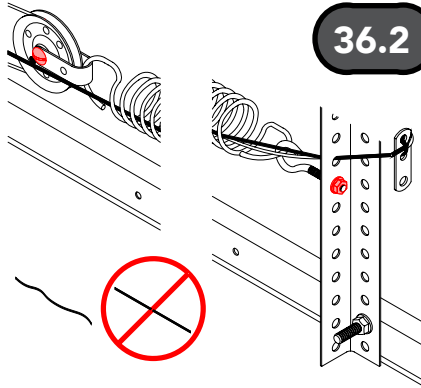


STEP 36:

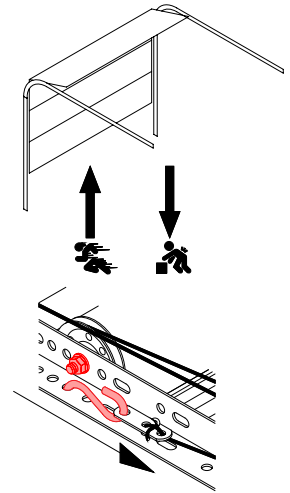
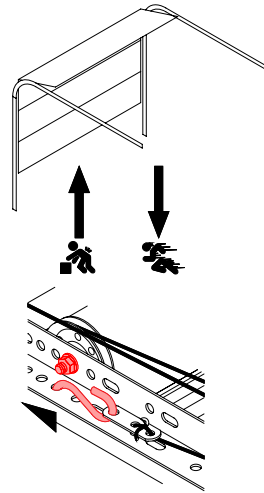
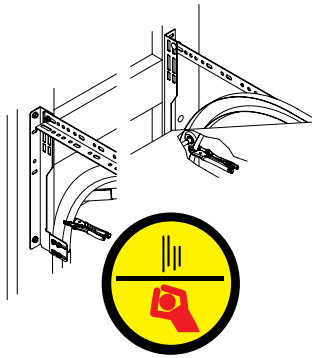
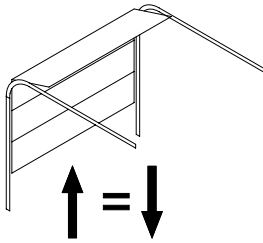
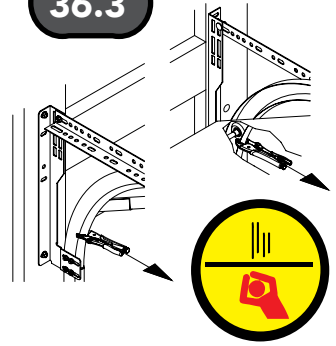
36.1



36.2

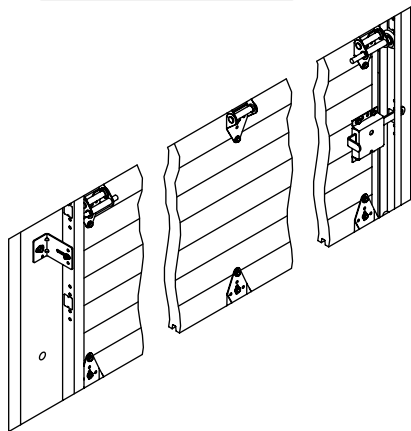


36.3

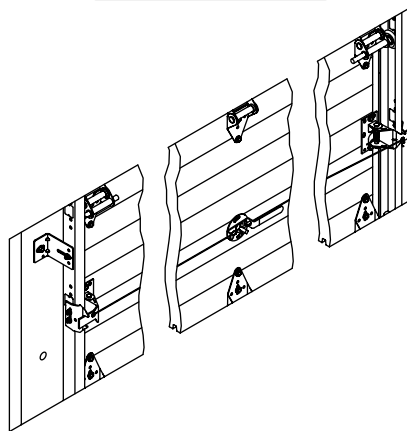


STOP! The installation of the Extension Spring is **COMPLETE!**
Continue to page 44 for handle installation.

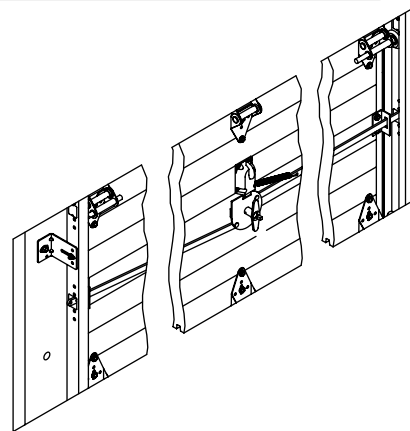
Slide Lock Kit:



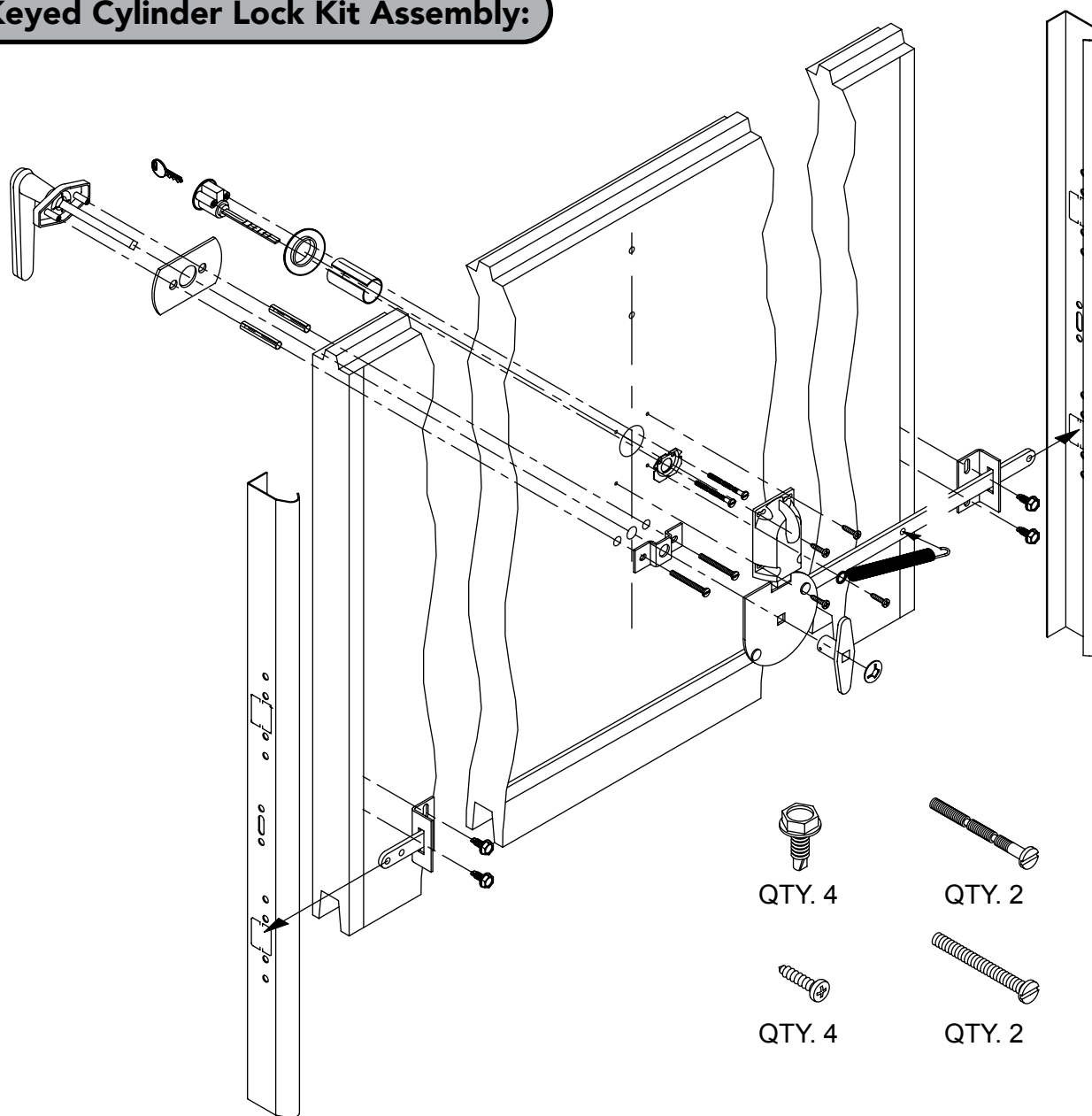
Snap Lock Kit:



Keyed Cylinder Lock Kit:



Keyed Cylinder Lock Kit Assembly:



QTY. 4

QTY. 2

QTY. 4

QTY. 2

Keyed Cylinder Lock Assembly Drilling Template:

1. USING THE TWO OUTER PRE-PUNCHED HOLES IN THE STILE, SHOWN AT THE BOTTOM OF THE TEMPLATE, AS A GUIDE, DRILL TWO $\frac{3}{8}$ " HOLES THROUGH THE OUTER SKIN OF THE SECTION THAT THE KEYED CYLINDER LOCK IS TO BE MOUNTED. BE SURE TO DRILL THESE TWO HOLES STRAIGHT AND PLUMB SO THAT ALL THE HOLES WILL LINE UP PROPERLY.

2. USE THE TWO HOLES DRILLED IN STEP 1 AND THE CORRESPONDING HOLES IN THE TEMPLATE, TO ALIGN PROPERLY. TAPE THE TEMPLATE TO THE OUTSIDE SKIN OF THE SECTION.

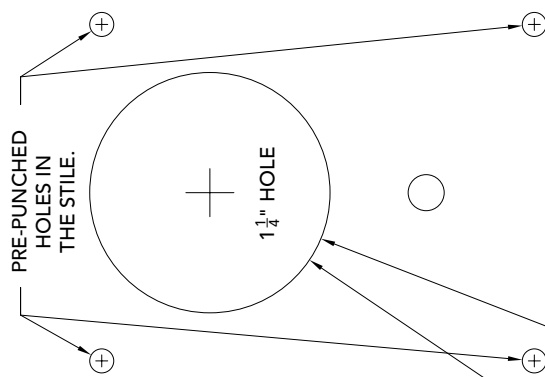
3. DRILL A $1\frac{1}{4}$ " HOLE THRU THE OUTER SKIN AT THE LOCATION INDICATED ON THE TEMPLATE.

6. DRILL THREE $\frac{1}{2}$ " HOLES THRU THE OUTER SKIN AT THE LOCATIONS INDICATED ON THE TEMPLATE.

3. KNOCK OUT THE $1\frac{1}{4}$ " PRE-PUNCHED PLUG LOCATED IN THE STILE.

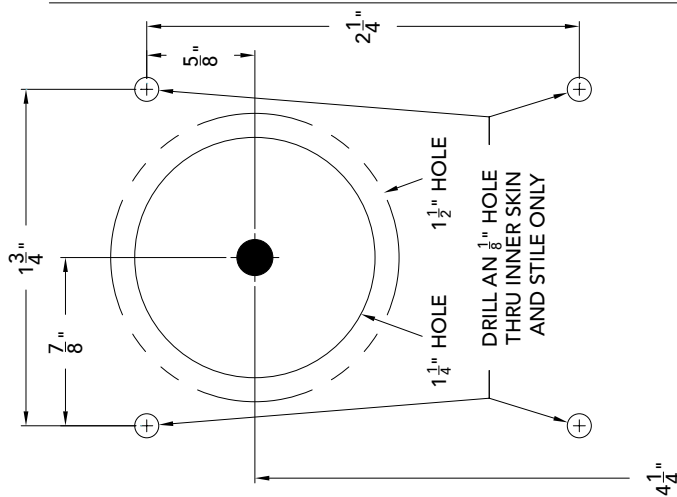
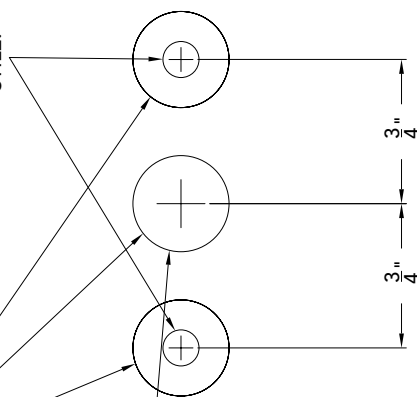
5. KNOCK OUT THE $\frac{1}{2}$ " PRE-PUNCHED PLUG LOCATED IN THE STILE.

PRE-PUNCHED HOLES IN THE STILE.



PAN SECTION

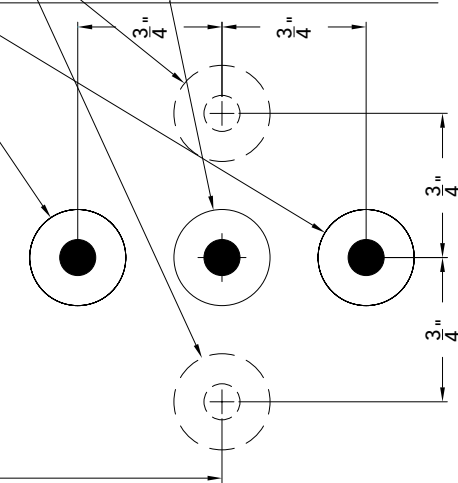
PRE-PUNCHED HOLES IN THE STILE.



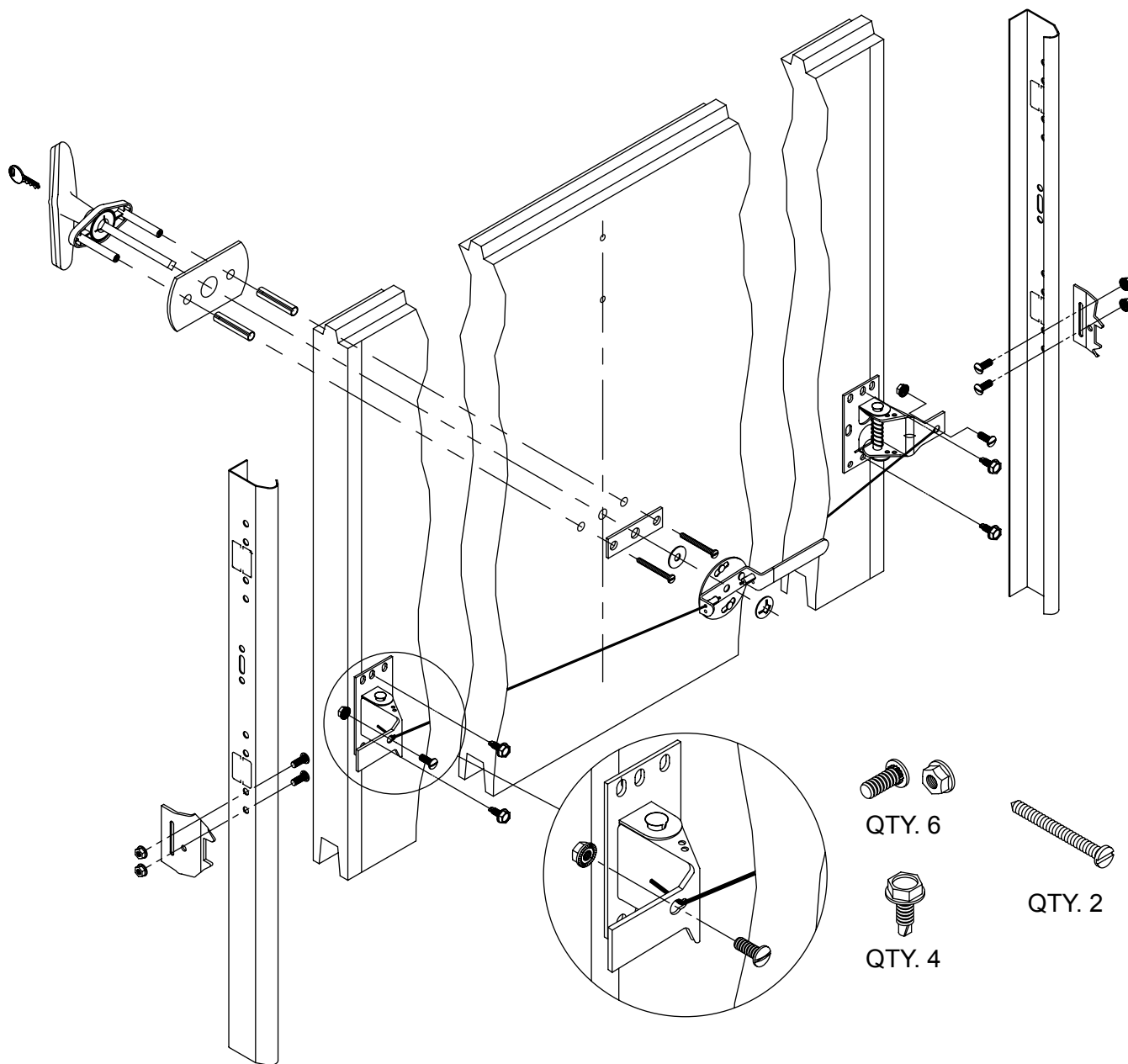
HT SECTION

4. DRILL A $\frac{1}{2}$ " HOLE THRU OUTER SKIN AND FOAM INSULATION ONLY USING THE PREVIOUSLY DRILLED $\frac{3}{16}$ " HOLE. OPTIONAL HOLE LOCATION.

5. DRILL A $\frac{1}{2}$ " HOLE THRU THE ENTIRE PANEL USING THE PREVIOUSLY DRILLED $\frac{3}{16}$ " HOLE AS A PILOT.

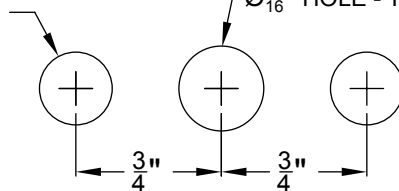


Snap Latch Kit Assembly & Template:



$\text{Ø}\frac{3}{8}$ " HOLE - THRU
(2 PLCS.)

$\text{Ø}\frac{7}{16}$ " HOLE - THRU



DRILL
TEMPLATE

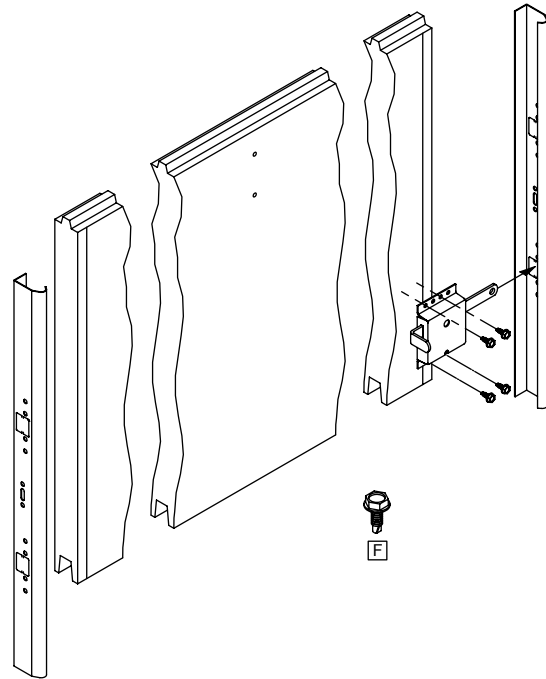
Slide Lock Kit Assembly:

Only one lock is needed for manual operation garage door
- left or right side.

A lock is not recommended with an operator.



* A lock may be required for wind load doors,
see wind load instructions and drawings

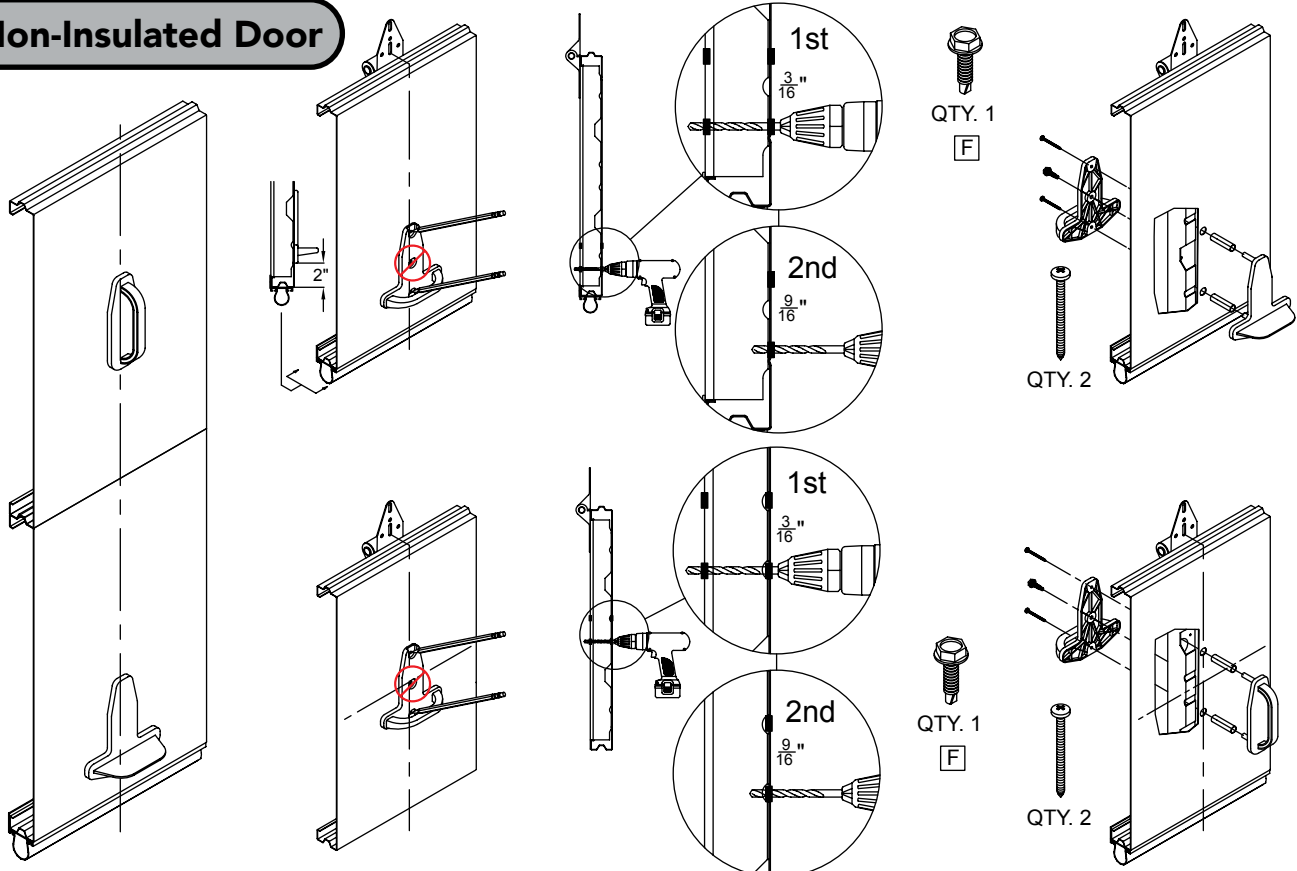


Lift Handle/Step Plate Installation Instructions:

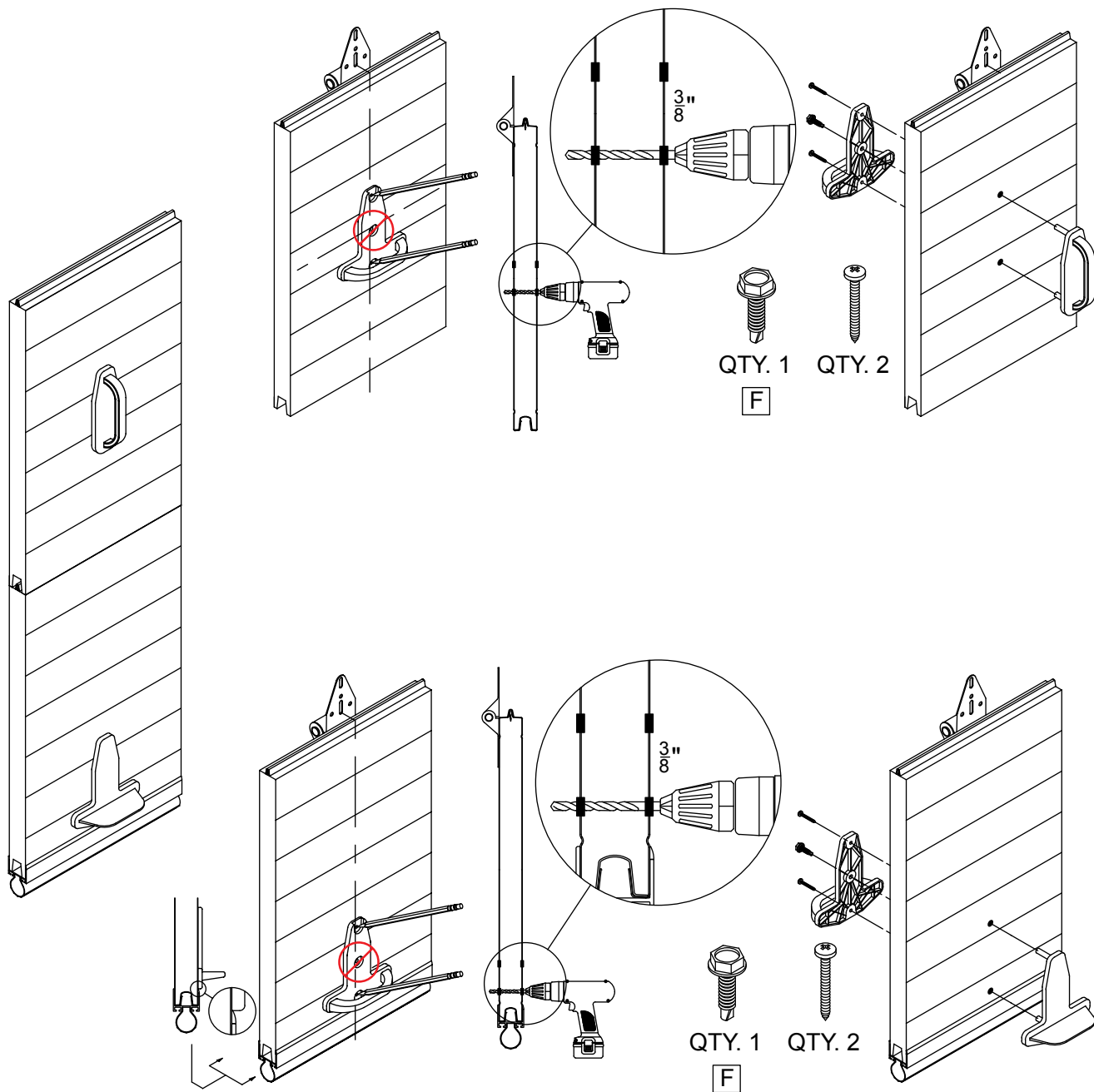


STOP: In accordance with industry standards, Haas Door recommends the installation of a lift handle to avoid injury if manual operation is required. Lift handles are a no-cost option. If you would like a handle, please fill out the form at www.haasdoor.com/handles, and we will send you one at no charge.

Non-Insulated Door



Insulated Door





Supplemental and Decorative Hardware Installation Instructions

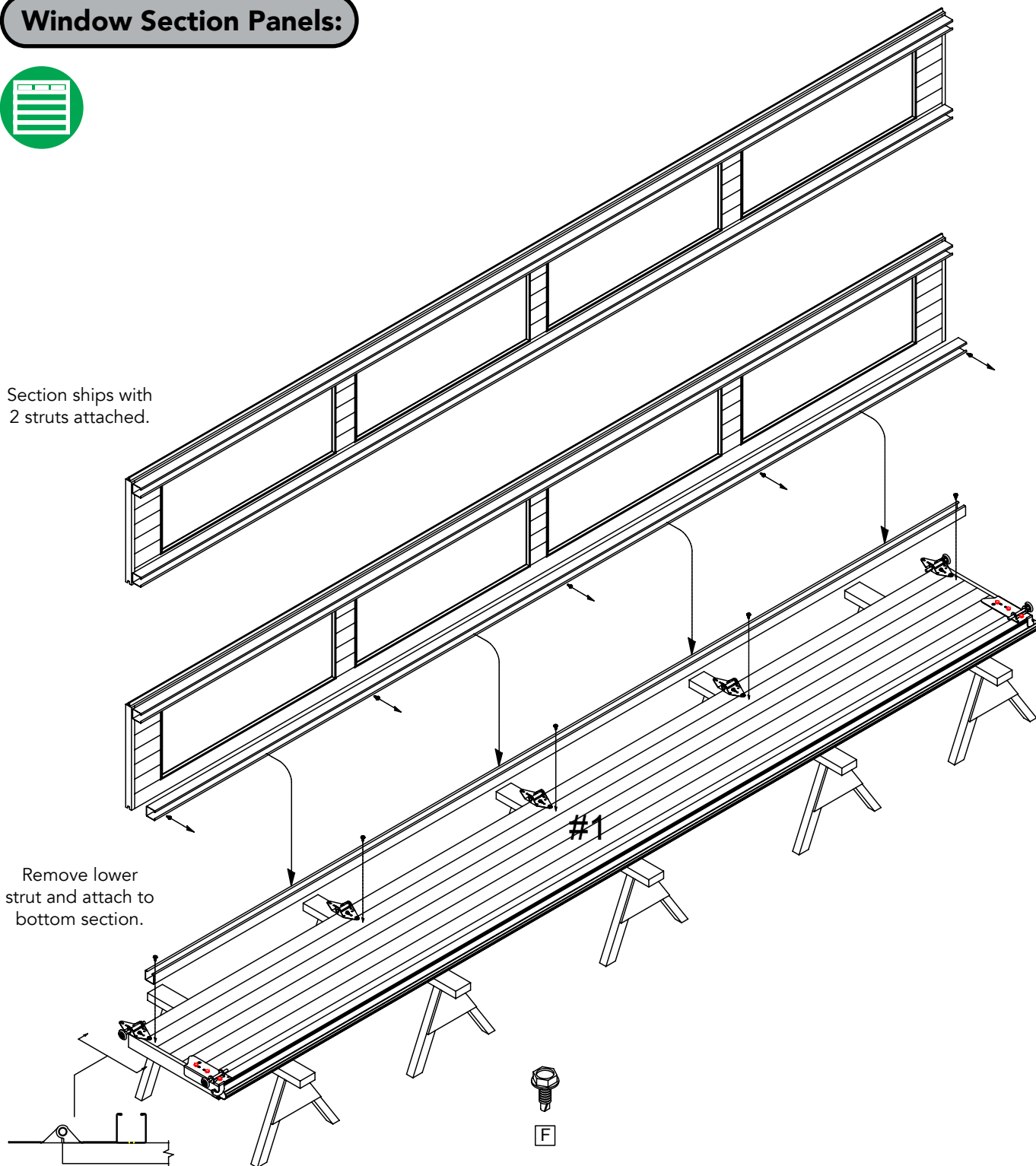
Models: 660, 661, 663, 664, 760, 761, 763, 764, 2060, 2061, 2063,
2064, 2460, 2461, 2560, and 2561

Window Section Panels:



Section ships with
2 struts attached.

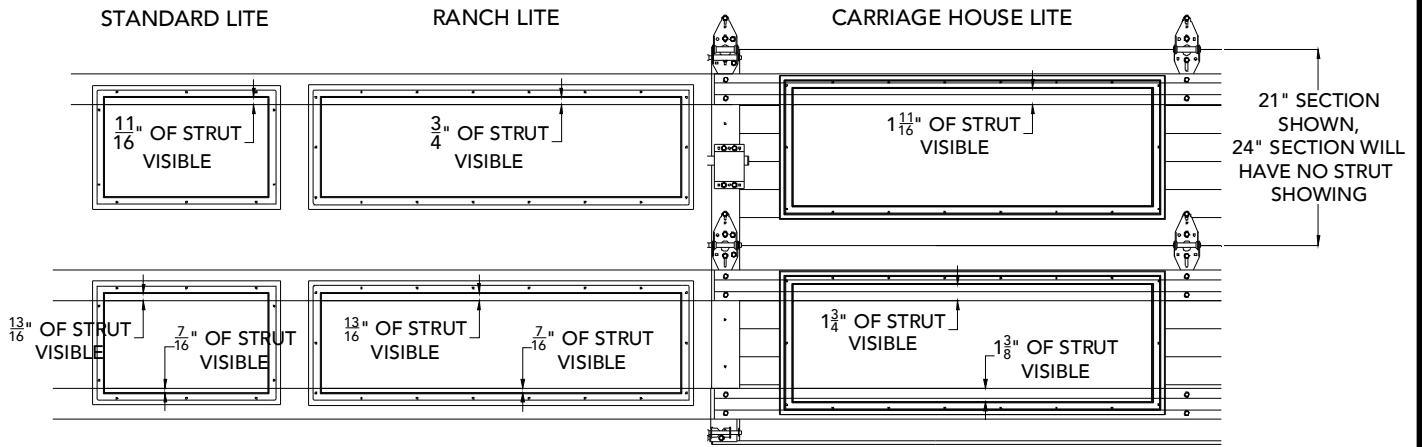
Remove lower
strut and attach to
bottom section.



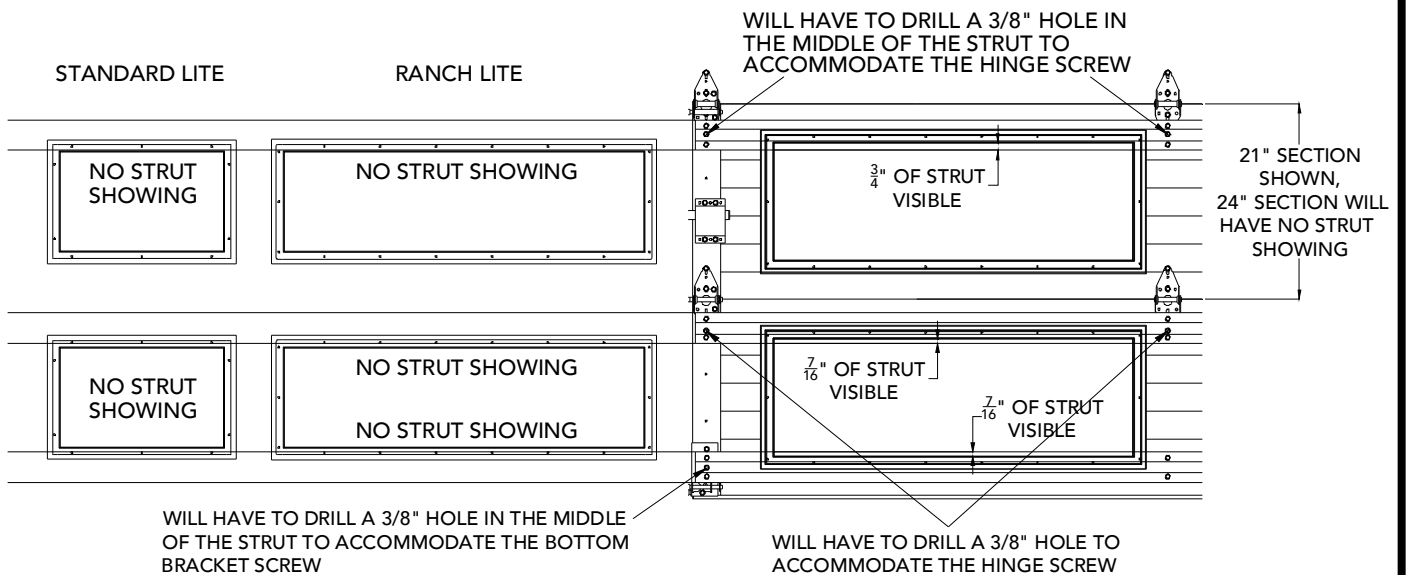
Alternate E-Strut Location

Use diagrams below to adjust E-Strut when lites are down one side on 21" section heights. Moving as shown will minimize visibility of E-Strut from outside of building.

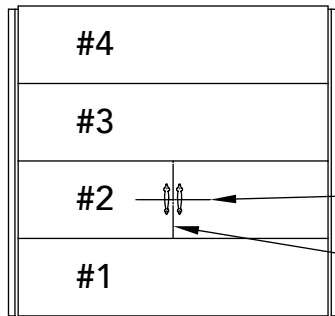
Location of E Strut as Shown on Drawing



New Location of E Strut to Minimize Visibility



Decorative Handle Positioning:



SECTION WIDTH	
8' - 8'7"	8'8" - 10'2"
8' - 8'7"	13' - 15'11"
16' - 16'11"	17' - 18'2"
HANDLE SPACING	
3"	5"

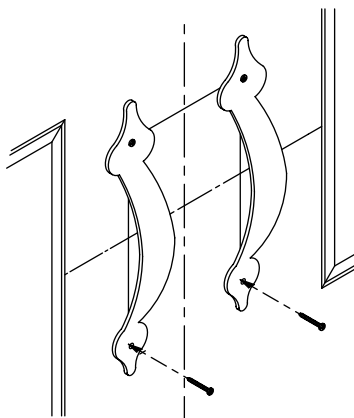
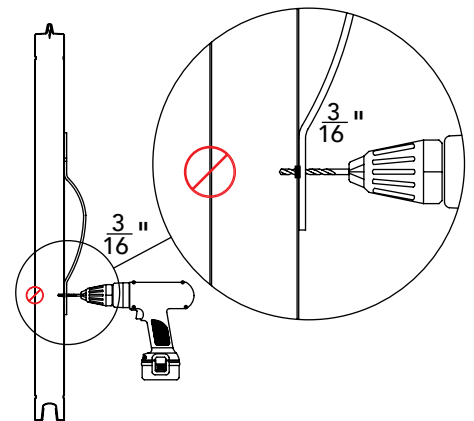
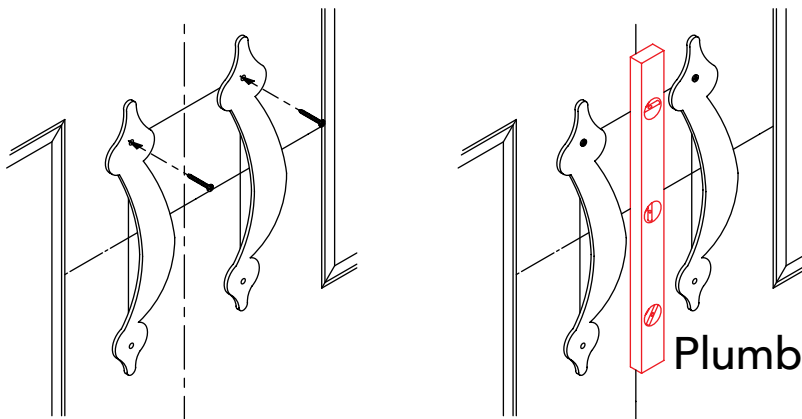
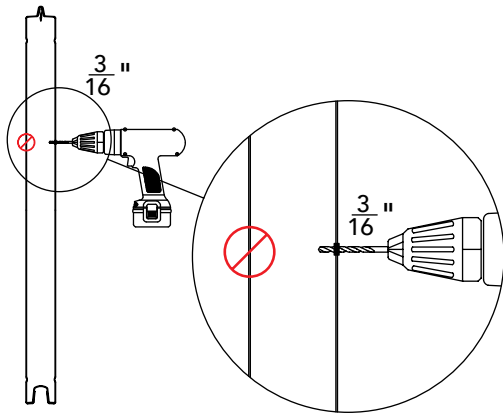
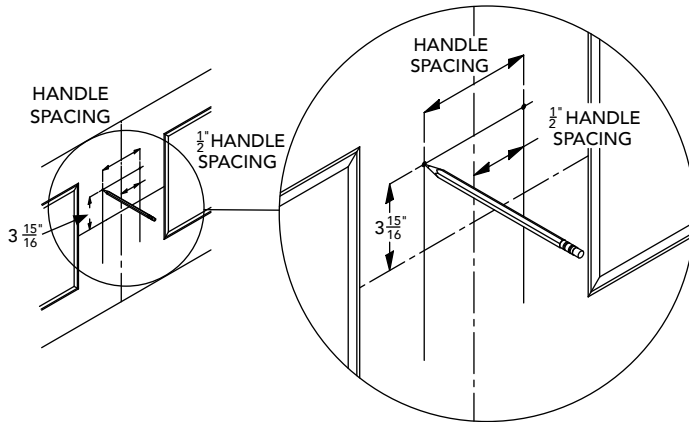
HORIZONTAL CENTERLINE
OF SECTION

VERTICAL CENTERLINE
OF SECTION

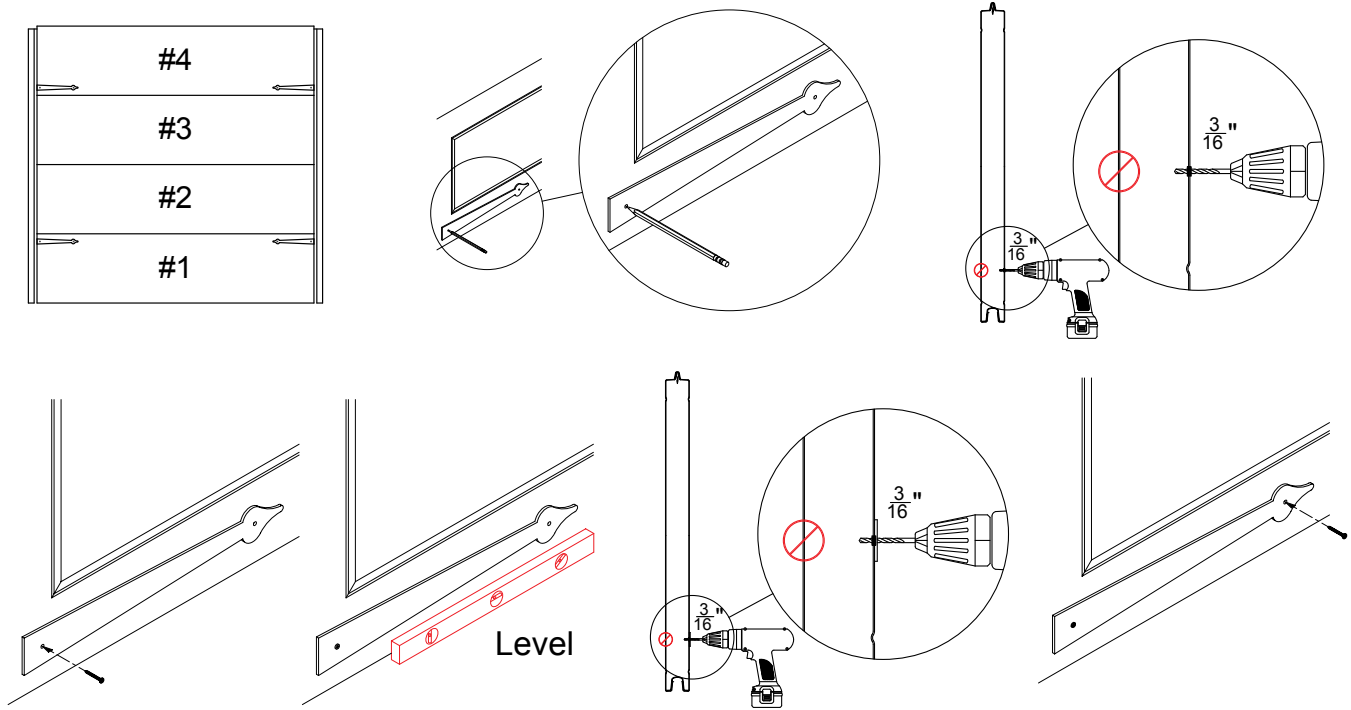
HANDLE SPACING

$\frac{1}{2}$ HANDLE SPACING

NOT TO
SCALE



Optional Decorative Hinge Straps:



Frosted Glass Care:

To clean frosted (acid-etched) glass, simply follow a few important rules:

1. In most cases, acid-etched glass can be washed with plenty of clean water and a soft sponge or non-ammonia glass cleaner.
2. Do not wash acid-etched glass when it is fully exposed to the sun or a nearby heat source.
3. Never use aggressive cleaning materials such as razor blades, steel wool, abrasive, etc. to clean glass.
4. Always clean the full surface of the acid-etched glass using water or glass cleaner even if only one small area of the glass is dirty. Never do spot cleaning, because it might create halos on the glass.
5. Once cleaned, the glass should be rinsed with clean water and wiped off all over with a soft lint-free cotton cloth.
6. Use plenty of water to avoid scratching or damaging the surface of the glass. Never try to remove impurities with a dry and/or dirty cloth, as this may cause scratches on the glass surface by rubbing impurities on the glass.
7. During the whole cleaning process, never apply any excessive pressure as this may damage the acid-etched glass surface by polishing it too much.
8. If using glass cleaner; use standard glass cleaners containing alcohol to clean the acid-etched glass.
9. If any stains still remain, repeat the cleaning sequence.
10. Never use products containing hydrofluoric acid, fluorine, chlorine or ammonia derivatives because they can damage the acid-etched surface of the glass. Never use highly acidic and alkaline products as they can abrade the glass surface.



American Tradition™ Series Supplemental Installation Instructions

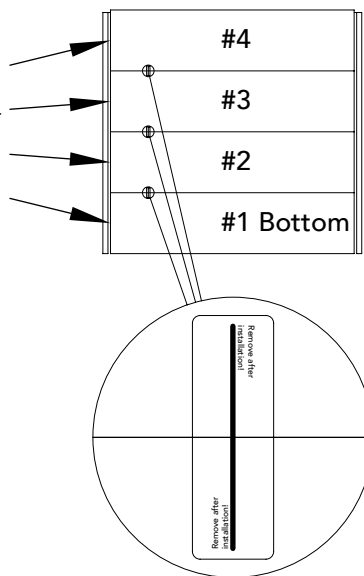
Strut Requirements:

Model	8', 9' & 10'	16' & 18'
American Tradition Series	1 - 2" Struts on section 4	3 - 2" Struts on sections 1,2, & 4

Stacking Sections:



Order Number and section number are on the sides of the sections.



STOP! The sections for an American Tradition door are crafted for each specific door. The first seven numbers in the order number located on the side of the door sections must match. The first six are the order number and the seventh number is the line item number.

Use the alignment sticker on the inside skin of each section to ensure the sections are stacked in the correct sequence. Check the visual aesthetic from the outside of the door.

To assist in section alignment, it is recommended that a 3/16" TEK screw pilot hole be drilled through the inside section skin by using the slots in the top half of the hinge as a template. Center the pilot holes in the hinge slots. Following door installation, use hinge shims provided to flush door overlay where needed.

Cleaning:

Dirt, loose chalk, and mildew must be removed to maintain a desired appearance. Clean mild build-up with a damp cloth. Heavier dirt accumulations may be addressed by the use of a diluted solution of Spic and Span® (1 cup into 5 gallons of warm water). Always rinse the surface thoroughly to remove any of the cleaning agents afterwards.



STOP! DO NOT USE A POWER WASHER. Using extreme water pressure to wash or rinse any parts of the door will void the door's warranty.



Painting:

Any garage door surface to be painted, including the overlay pieces, must be properly prepared to assure the continued performance of the coating system. See painting on page 39.



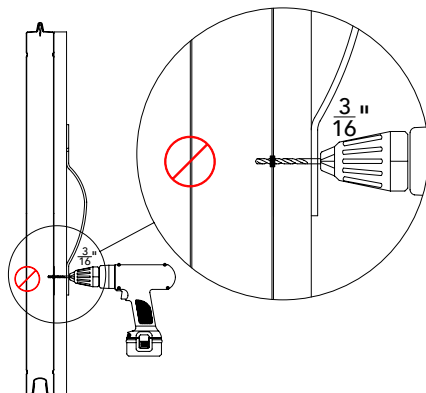
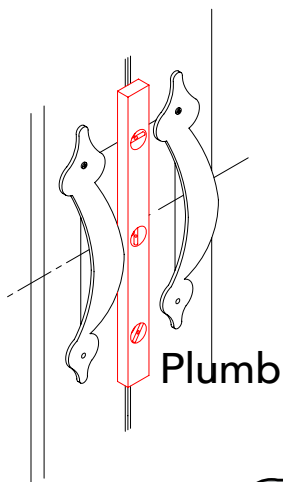
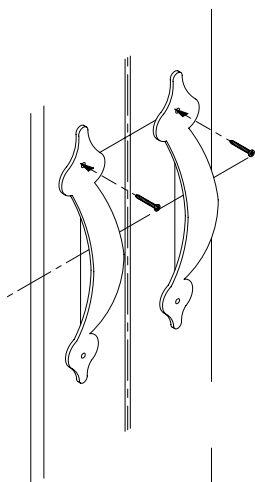
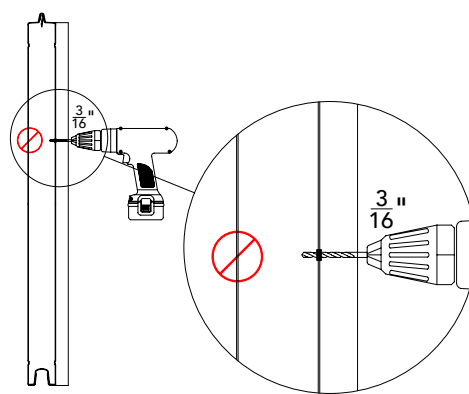
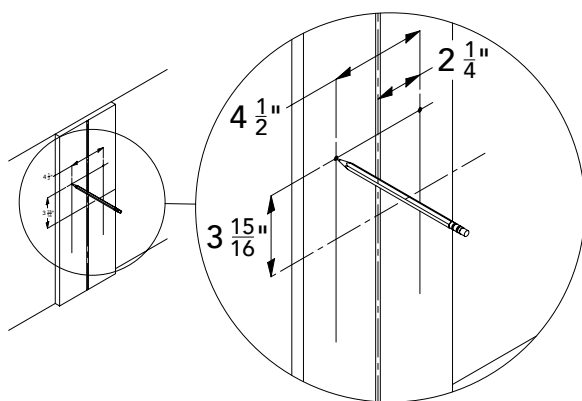
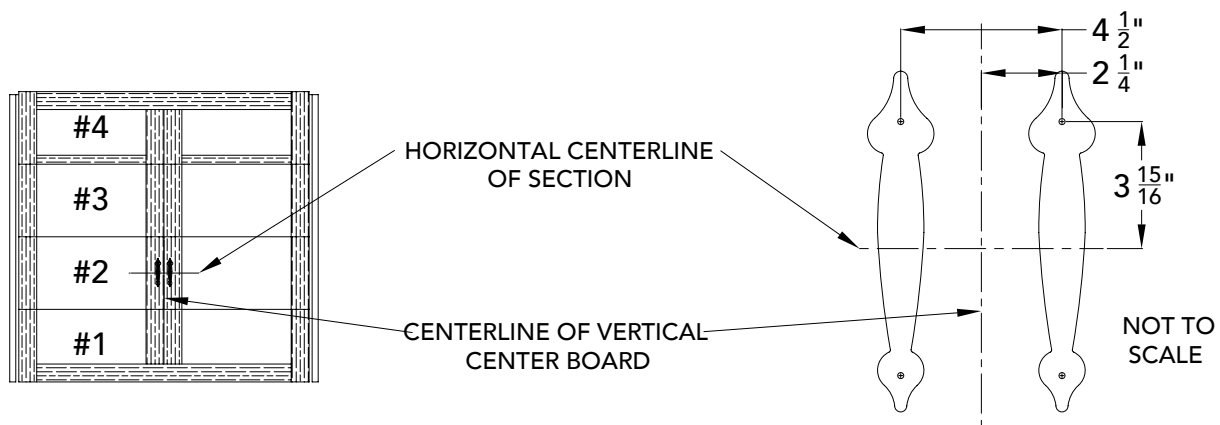
STOP! USE ONLY HIGH QUALITY LATEX EXTERIOR HOUSE PAINT. Use of paints containing linseed oil, lacquer, or alkyd base solvents voids the warranty of this door.



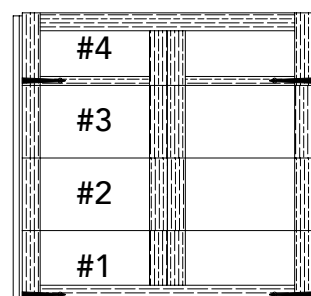
Refer to door installation manual for painting instructions. **DO NOT PAINT THE DOOR OVERLAY DARK COLORS.** Failure to follow these specifications will void the door's warranty. Dark colors absorb excessive amounts of heat from the sun. This can result in higher than designed surface temperatures, causing the adhesive system to fail or the overlay pieces to warp. Do not paint the steel section or the overlay with a paint that has a LRV (Light Reflective Value) of less than 35.



American Tradition Series™ Decorative Door Lift Handle Instructions:



Optional Decorative Hinge Straps:



Painting:

Any garage door surface to be repainted must be properly prepared to assure the continued performance of the coating system. The following instructions must be followed to ensure proper results.

1. Dirt, loose chalk, and mildew must be removed prior to repainting. Heavier dirt accumulations must be addressed prior to repainting by the use of a diluted solution of Spic and Span® (1 cup into 5 gallons of warm water). Always rinse the surface thoroughly to remove any of the cleaning agents.
2. Minor scratches, which have not left the metal substrate exposed, can be lightly sanded or buffed to create a smoother surface. Care must be taken, however, not to expose the substrate. Once this exposed metal condition exists, the likelihood of rusting is greatly increased. Should the metal substrate be observed during this operation, see the following paragraph. (Do not use steel wool.)
3. Exposed metal must be treated to prevent rust from forming. To do so, sand the general area lightly and use a primer specifically designed to protect any exposed galvanized steel metal from corrosion. Allow sufficient time for the primer to dry before applying the topcoat. If either red or white rust is evident, scrape or brush away as much rust as possible and then sand lightly, removing ALL rust before priming. Care must be taken, however, not to destroy the galvanized surface.
4. After the door has been properly prepared, it must be coated within 24 hours using high-quality latex exterior house paint. The surface must be completely dry prior to painting. Avoid painting at temperatures below 50° F. Follow the paint manufacturer's recommendations to apply a uniform coat at the proper thickness.



WARNING! USE ONLY HIGH QUALITY LATEX EXTERIOR HOUSE PAINT. Use of paints containing linseed oil, lacquer, or alkyd base solvents voids the warranty of this door.

Maintenance:

Routine maintenance performed once annually will help assure long-lasting, quiet, trouble-free operation of your Haas Door sectional door.

Visual Inspection

Look at the garage door springs, cables, rollers, pulleys and other door hardware. If you suspect problems, have a qualified person make repairs. Do not attempt to replace door hardware yourself.



WARNING! Springs are under high tension. Only qualified persons should adjust them.

Squeaky Springs

Squeaky springs don't necessarily mean something is wrong. Try applying a spray-on lubricant to reduce the noise. If this doesn't work, call a professional garage door installer for service.

Lubricate

Lubrication should be done with silicone grease. Lubricate all moving parts of the door including hinges, springs, steel rollers and lift cables. However, do not lubricate plastic parts such as plastic rollers.

Cleaning

Dirt and mildew must be removed to maintain the desired appearance. Use a mild household cleaner and wipe down the surface of the door. Rinse surface thoroughly to remove any cleaning agent.

Replacement Parts:

To obtain replacement parts for your Haas Door garage door, such as the bottom seal, hinges, springs, sections, and glass, contact your Haas Door dealer, whom will often have items in stock to assist you. To find a dealer near you, see the front cover of this installation manual, reference the label on the side of the section, or visit our dealer locator found on haasdoor.com.

Haas Door is Committed to Quality

As a member of the Door and Access Systems Manufacturers Association (DASMA), Haas Door is committed to upholding industry standards for quality and safety. In addition to these guidelines, Haas Door has developed its own quality assurance procedures.

Each raw material used in the manufacturing process is inspected daily for quality assurance. Steel used on the inside and outside skins is checked for accuracy in thickness and finish. The insulation material, a high density environmentally compliant polyurethane foam, is tested continuously on each production line to ensure that the correct density, blend of material, cure time and third-party tested U-Factors are achieved.

Samples of manufactured doors are tested for quality and durability. Doors are cycled tens of thousands of times to test the performance and endurance of the sections, hinges, springs, cables, rollers, bottom seals, and track. Strength is measured using two separate tests. Individual sections are subjected to a dead load test, and wind load doors are tested in accordance with industry standards and codes. This ensures that Haas Door garage doors will meet wind load requirements for building codes.

Haas Door continues to perform testing outside of the manufacturing facility, as both prototype and current doors are installed in various locations and monitored for durability. External labs are also used to test specific components to ensure quality standards.

Quality people who produce quality products are what make Haas Door the best garage door manufacturer in the industry.

Open the door to endless possibilities!

For more information about your door:

The Haas Door label contains extensive information about your door and provides links to even more data specific to your purchase. To access this data, you can scan the QR code on the door label with your smartphone, or you can visit i.haasdoor.com/doorfinder to enter the serial number provided. Both methods will give you information such as the type of door, color, weight, order number, configuration, and technical drawings of the door.



haasdoor.com
320 Sycamore
Wauseon, OH 43567

Residential Aluminum Series

Aluminum Residential Garage Doors

5 Year Warranty



5 Year Finish Warranty
6 Year Hardware Warranty
3 Year Spring Warranty
1 Year All Other Components

Haas Door Company warrants the finish of the aluminum extrusions on the residential models RA360, RA360i and RA360ix garage door sections to be free from defects in workmanship and material for a period of five (5) years from date of installation.

In addition, garage door hardware, excluding decorative hardware, springs, cables, and/or spring components, is warranted to be free from defects in workmanship and material for a period of 6 years from date of installation. Spring, cables, and/or spring components are warranted to be free from defects in workmanship and material for a period of 3 years from date of installation. All other components, including decorative hardware, windows and window components, are warranted to be free from defects in workmanship and material for a period of 1 year from the date of installation.

This Limited Lifetime Warranty applies only to aluminum garage door sections manufactured by Haas Door Company and components manufactured or supplied by Haas Door Company. The warranty excludes: (1) Sections and/or component parts which have been damaged due to misuse; (2) Sections and/or components which have been improperly installed, maintained or operated; (3) Sections and/or components that have been damaged due to accident; (4) Sections and/or components that have been damaged due to exposure to salt environments including coastal areas, corrosive fumes/chemicals, alkaline cleaning agents, condensation or fire; (5) Performance of and/or any damage or defect caused by coatings applied subsequent to the original factory-applied finish; (6) Repair and/or replacement labor charges, including travel cost; (7) Damages resulting from other causes beyond the manufacturers control.

In the event any defect is claimed during the warranty periods, a claim in writing must be submitted to Haas Door Company, directed through an authorized Haas Door Company dealer or installer. This claim must be submitted within fifteen (15) days of the discovery of the suspected defect. The door and all components must be available for inspection by an authorized Haas Door Company representative. Upon verification of a manufacturing defect, Haas Door Company will provide repair or replacement part(s) at its option.

HAAS DOOR COMPANY SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY BREACH OF THIS EXPRESS LIMITED WARRANTY, including but not limited to any damage to buildings, other property or for any injuries or damages sustained by any person whomsoever, or the recovery of any direct or indirect costs such as shipping, travel, lost time, installation labor charges, paint or painting, cleaning, repair, or other building materials.

THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PURCHASE; THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH BUT FOR THE WARRANTY CONTAINED HEREIN MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

HAAS DOOR COMPANY WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES OR EXPENSES AS A RESULT OF PURCHASER'S NEGLIGENCE, WHETHER DEEMED ACTIVE OR PASSIVE AND WHETHER OR NOT ANY SUCH NEGLIGENCE IS THE SOLE CAUSE OF ANY SUCH DAMAGE, LOSS OR EXPENSE.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

----- THIS WARRANTY IS NOT TRANSFERABLE -----