

1600 Series Non-Handed Door Closer

Arm Models 1601, 1603BC, and 1604BC

Installation Instructions

Non-hold Open arm models, adjustable size 1-6 (model 1601 &) and size 3 & 4 (models 1603BC and 1604BC).

**NORTON
RIXSON**



ASSA ABLOY

**TRADEMARK
HARDWARE**

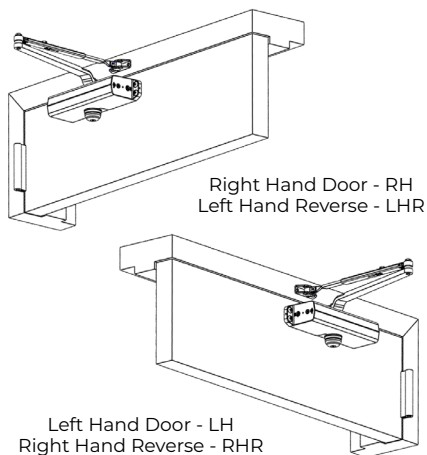
⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm.

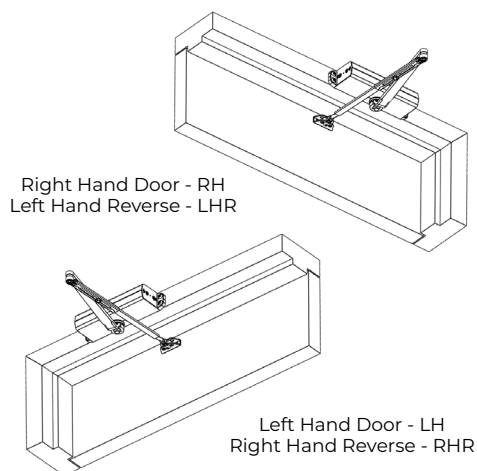
For more information go to: www.P65warnings.ca.gov.

READ AND FOLLOW ALL INSTRUCTIONS.
SAVE THESE INSTRUCTIONS.

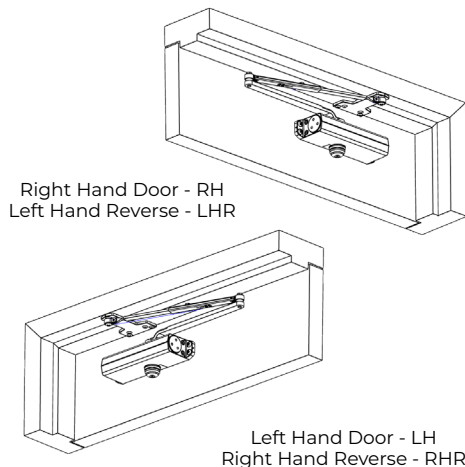
Regular Arm



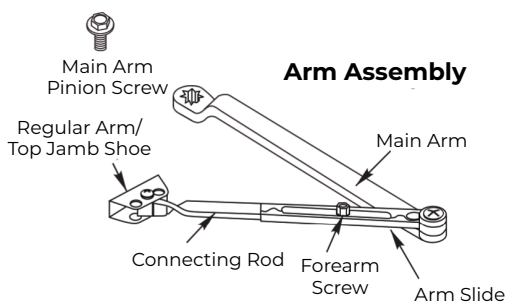
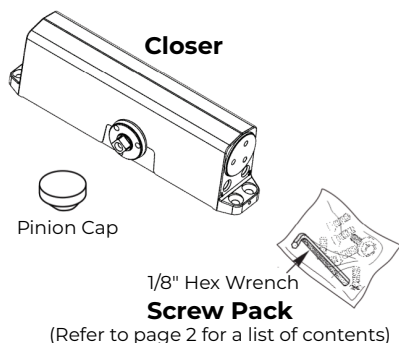
Top Jamb Mount



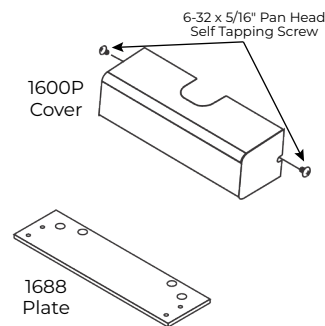
Parallel Arm



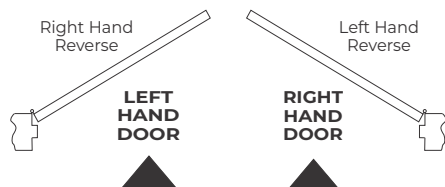
Included Components



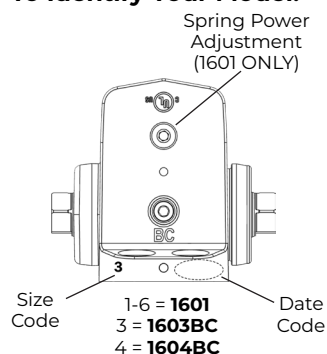
Optional Components



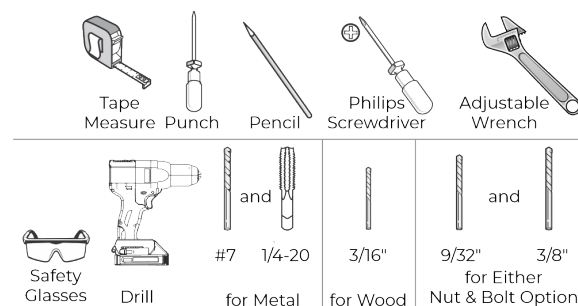
To Determine Your Hand of Door:



To Identify Your Model:



Tools Needed:



ATTENTION:

An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

- For special applications, a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.
- Doors should be hung on ball bearing or anti-friction hinges.

- A separate door stop is recommended.
- Always consult door/frame manufacturer for fastener compatibility.
- Door and frame must be properly reinforced.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°.
- These door closers should NOT be installed on exposed side (weather side) of exterior doors.
- Dimensions are given in inches (millimeters).

Supplied Hardware

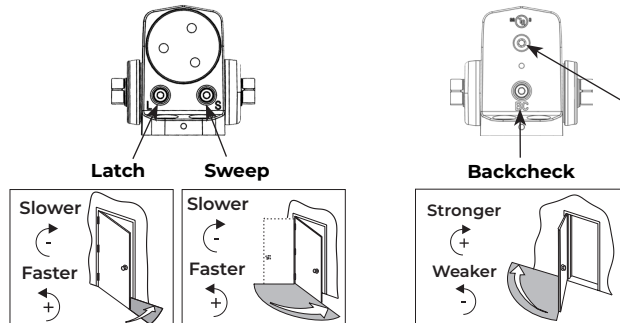
Mounting Hardware		Door or Frame	Drill
	Closer, PA Bracket: 1/4-14 x 1-1/2 Oval Flat Head Self Drilling Screw	Wood/Metal	3/16" (4.8mm) for wood
	Closer, PA Bracket: 1/4-20 x 3/4 Oval Flat Head Mach. Screw	Metal	Drill #7 (.201 dia. or 5.1mm) Tap 1/4-20
	Arm Shoe to Jamb or Door: 1/4-20 x 5/8 Round Head Mach. Screw		
	Arm Shoe to Jamb or Door: 1/4-14 x 1-1/2 Round Head Self Drilling Screw	Wood/Metal	3/16" (4.8mm) for wood
	Closer: Sleeve Nut and Bolt (SNB) (optional) with 1/4-20 x 3/4 Oval Flat Head Mach. Screw (recommended)	Hollow Metal	9/32" (7.0mm) thru 3/8" (9.5mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5mm) thru
	Closer: Thru Bolt and Grommet Nut (TBGN) (optional)	All	9/32" (7.0mm) thru 3/8" (9.5mm) dia. x 3/8" (9.5mm) deep, door face opposite to closer

Closer Adjustments



Use provided hex wrench to turn valves. NEVER force valves out of closer. NEVER completely close backcheck valve. Door must be open to adjust spring closing power. Refer to the chart.

Use of a power drill will void the Warranty.

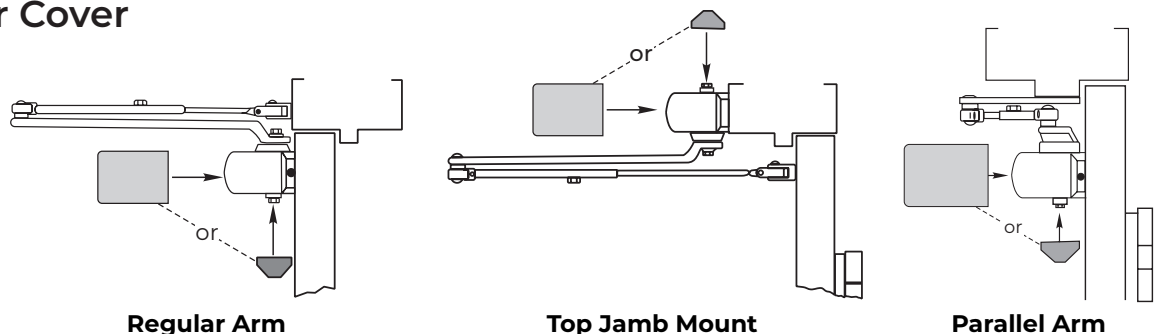


Spring Closing Power				Number of Turns Required				
	Door	Type of Installation	*	Maximum Door Size				
				34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
1601	Interior	Regular Arm Top Jamb	Full 360° Turns	2	4	6	10	12
		Parallel Arm		3	5	8	11	14
	Exterior	Regular Arm Top Jamb		3	5	8	11	14
		Parallel Arm		5	8	11	16	19
*30 Full (360°) turns maximum available = turns as shipped								

Pinion Cap or Cover



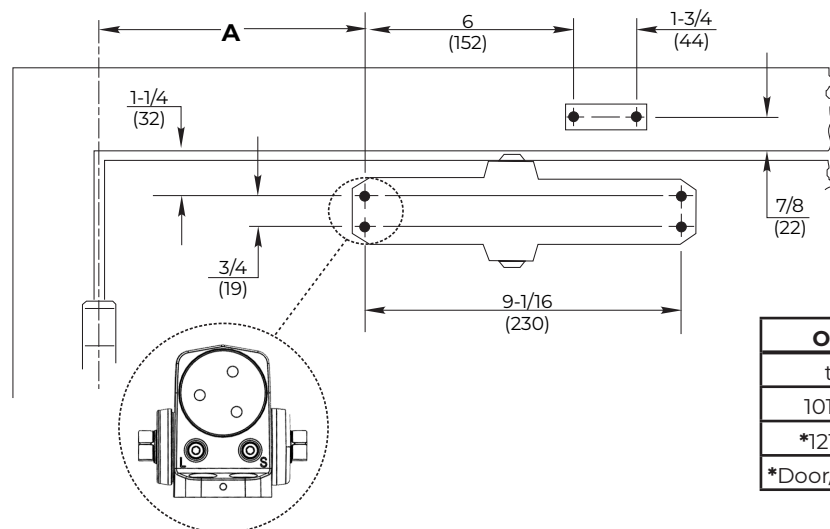
Do not over tighten cap or cover screws.



1600 Series Non-Hold Open Closer

1600 Regular Arm Installation (Right Hand Shown)

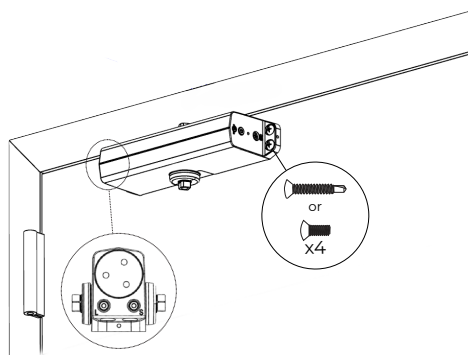
1. Prepare door and frame.



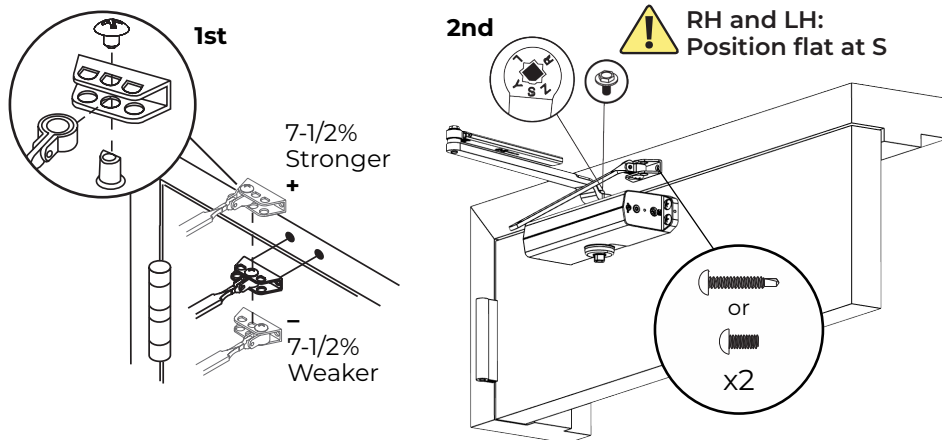
Opening	Dimension "A"
to 100°	7 (178)
101° to 120°	6 (152)
*121° to 180°	3-1/2 (89)

*Door/Wall/Hardware/Jamb conditions permitting

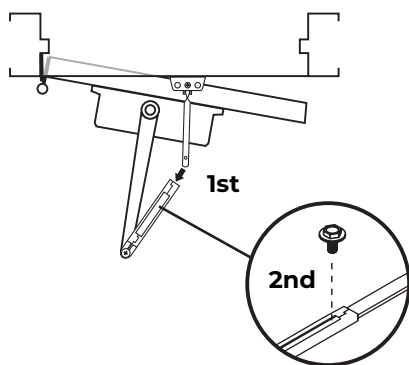
2. Mount closer to door.



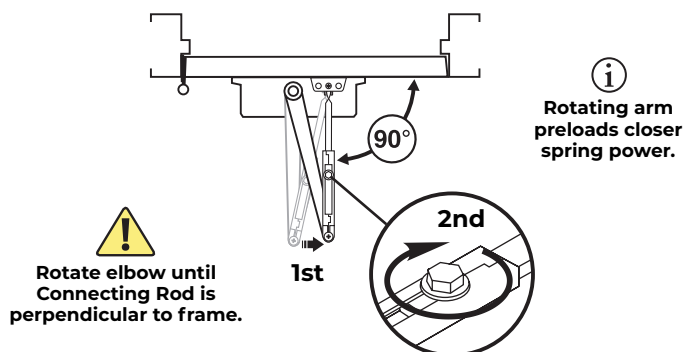
3. Choose arm placement in shoe and install arms.



4. Connect arms and install forearm screw.



5. Preload spring and tighten forearm screw.

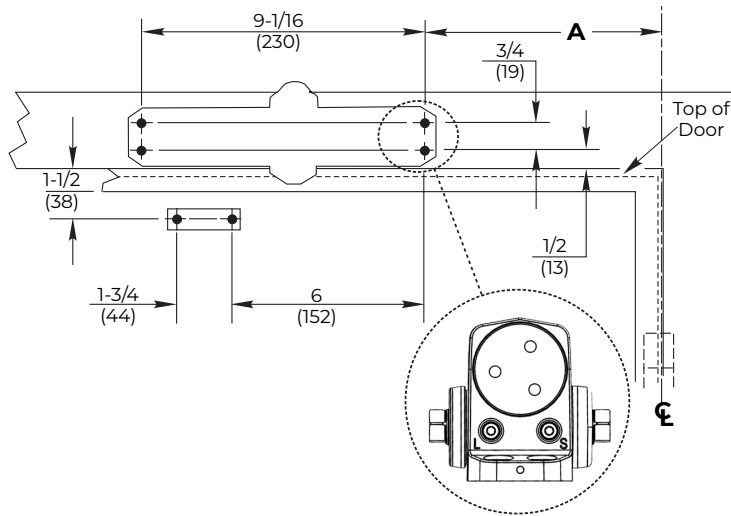


The **1600 Non Hold Open Closer - Regular Arm** has now been installed.

● Go to page 2 for closer adjustments and decorative cap or cover installation.

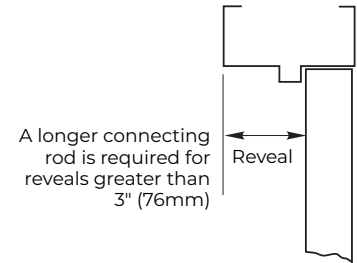
1600 Top Jamb Arm Installation (Right Hand Shown)

1. Prepare door and frame.

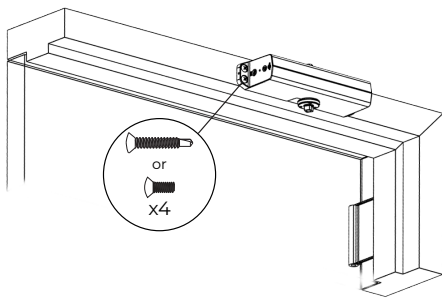


Opening	Dimension "A"
to 100°	7-1/2 (191)
101° to 120°	6 (152)
*121° to 180°	3-1/2 (89)

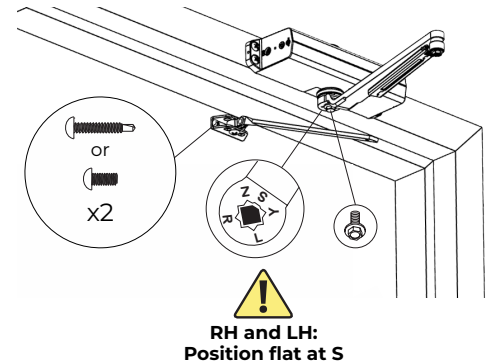
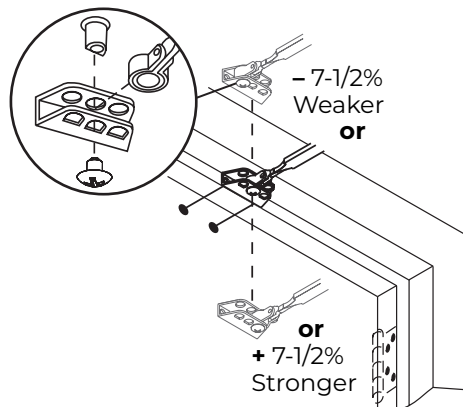
*Door/Wall/Hardware/Jamb conditions permitting



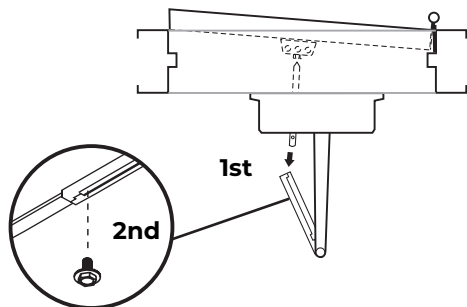
2. Mount closer to frame.



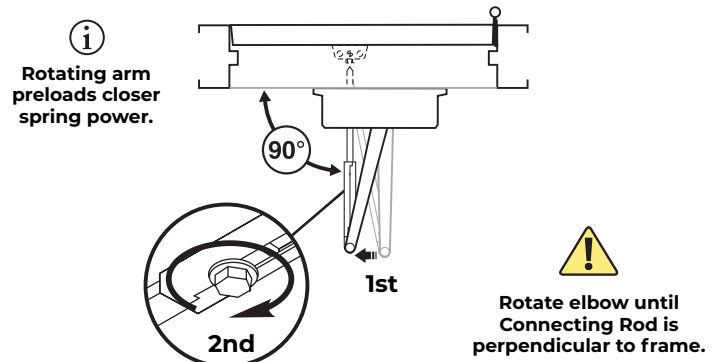
3. Choose arm placement in shoe and install separate arms.



4. Connect arms and install forearm screw.



5. Preload spring and tighten forearm screw.

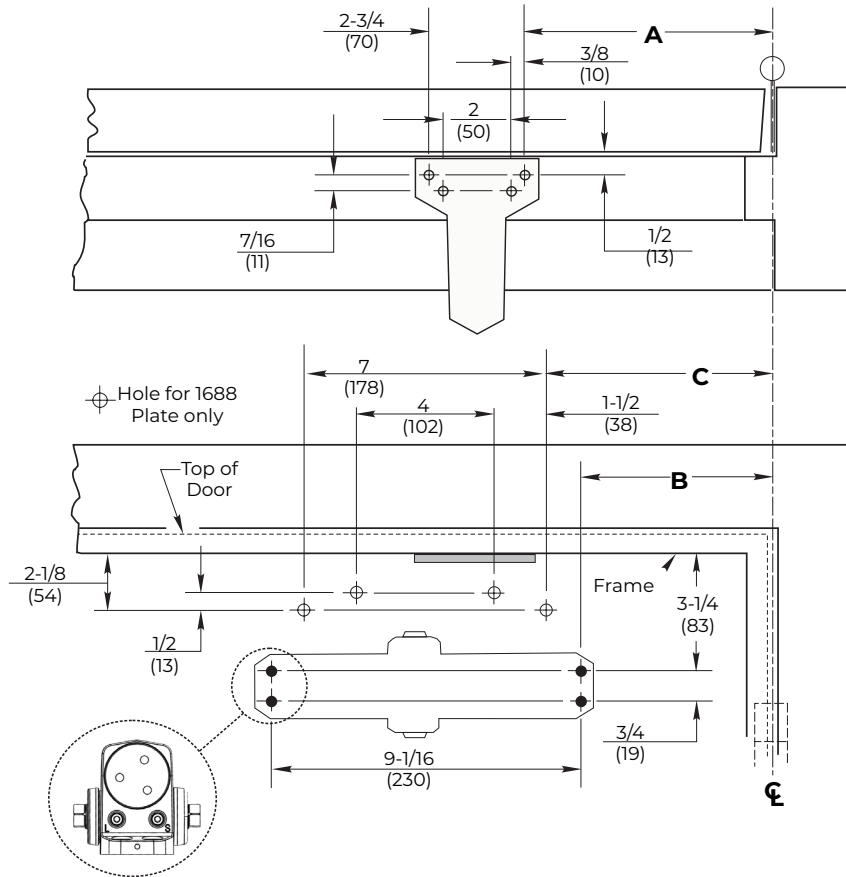


The **1600 Non Hold Open Closer - Top Jamb Mount** has now been installed.

● Go to page 2 for closer adjustments and decorative cap or cover installation.

1600 Parallel Arm Installation (Right Hand Shown)

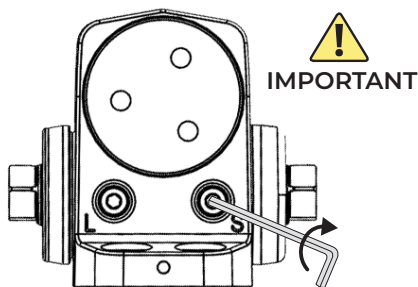
1. Prepare door and frame.



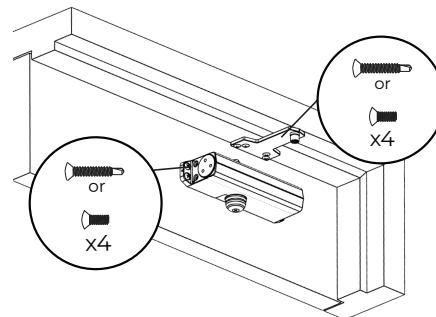
Door Opening	Dimension "A"	Dimension "B"	Dimension "C"
to 100°	9-1/4 (235)	7-5/8 (194)	8-5/8 (219)
101° to 130°	7-3/4 (197)	6-1/8 (156)	7-1/8 (181)
*131° to 180°	5-3/4 (146)	4-1/8 (105)	5-1/8 (130)

*Door/Wall/Hardware/Jamb conditions permitting

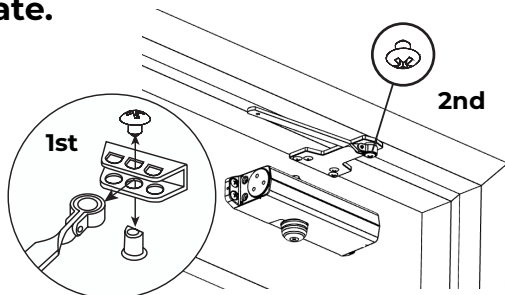
2. Close latch and sweep valves.



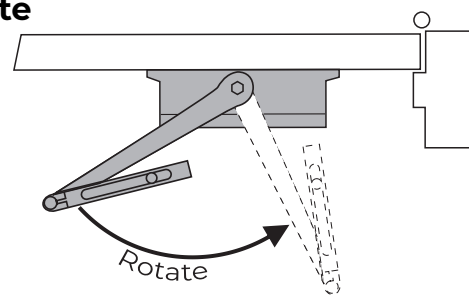
3. Install soffit plate and mount closer.



4. Remove arm shoe and install forearm to plate.



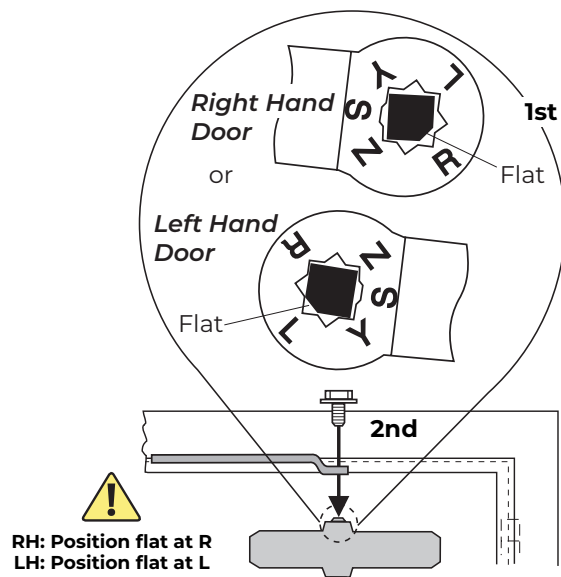
5. Place main arm on closer spindle and rotate



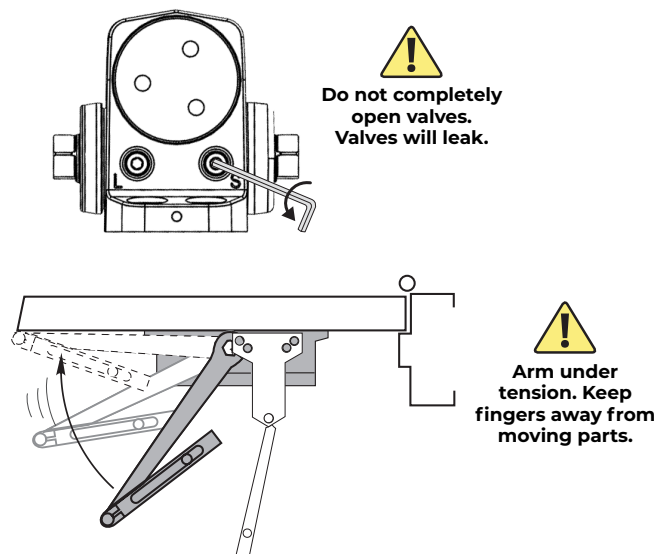
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1600 Parallel Arm Installation (Right Hand Shown) cont.

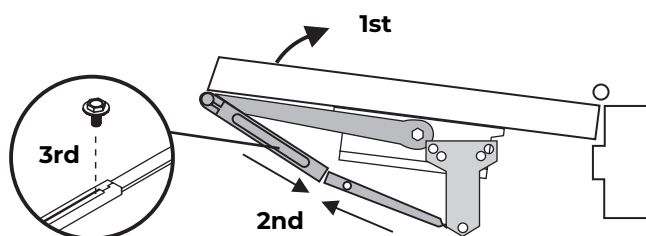
6. Remove arm and attach as shown.



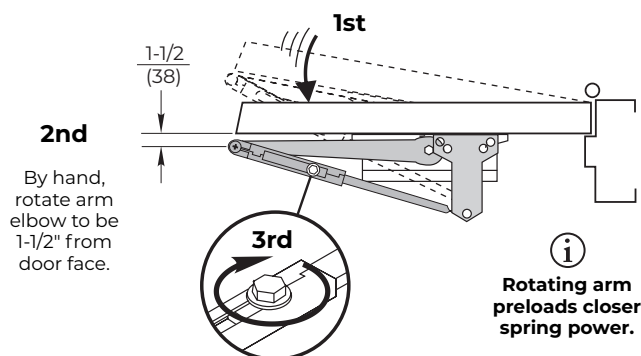
7. Open latch and sweep valves.



8. Connect arms and install forearm screw.



9. Preload spring and tighten forearm screw.



The **1600 Non Hold Open Closer - Parallel Arm Mount** has now been installed.

● Go to page 2 for closer adjustments and decorative cap or cover installation.