

# 1680 Narrow Profile Non Handed Door Closer Regular Arm Top Jamb Mount Parallel Arm

## Non Hold Open Arm Models

Sized  
(Sizes 3,4)  
1683BC  
1684BC

Adjustable  
(Sizes 1-6)  
1681



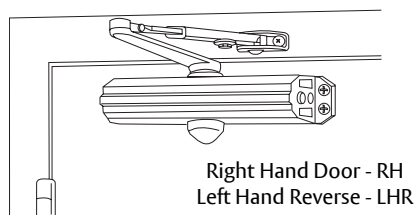
**Norton®**  
**ASSA ABLOY**

### ! WARNING

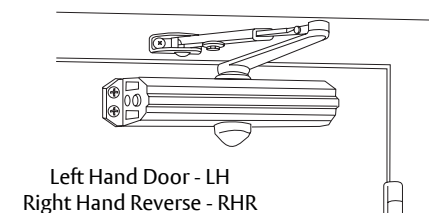
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

Ce produit peut vous exposer au plomb qui, dans l'état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction. Pour plus d'informations, visitez: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

#### Regular Arm

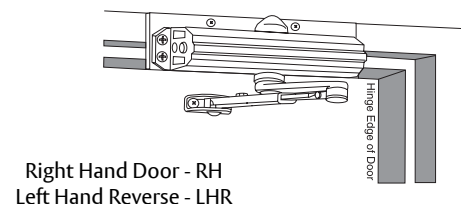


Right Hand Door - RH  
Left Hand Reverse - LHR

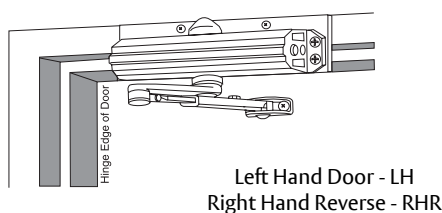


Left Hand Door - LH  
Right Hand Reverse - RHR

#### Top Jamb Mount

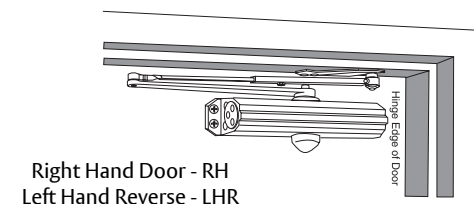


Right Hand Door - RH  
Left Hand Reverse - LHR

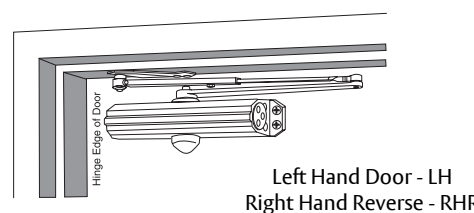


Left Hand Door - LH  
Right Hand Reverse - RHR

#### Parallel Arm

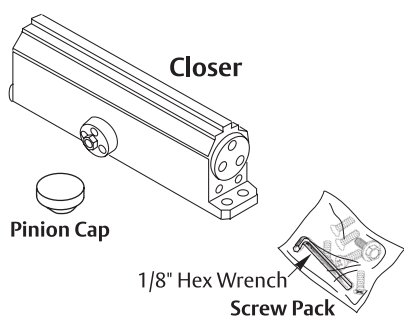


Right Hand Door - RH  
Left Hand Reverse - LHR



Left Hand Door - LH  
Right Hand Reverse - RHR

### Included Components (See page 2 for mounting hardware)

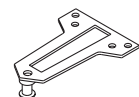
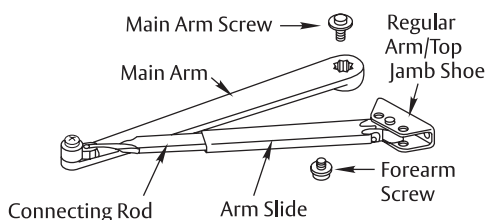


Closer

Pinion Cap

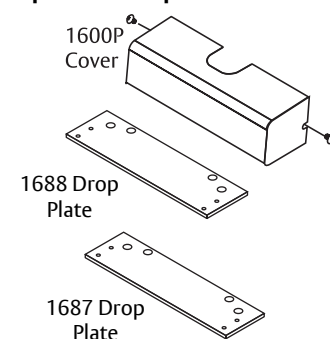
1/8" Hex Wrench  
Screw Pack

#### Arm Assembly

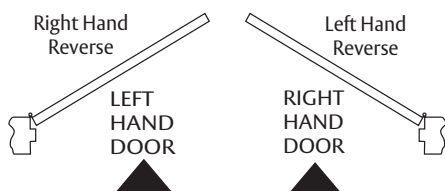


1618A Parallel  
Arm Bracket  
(Used with  
Parallel Arm  
Installation Only)

### Optional Components



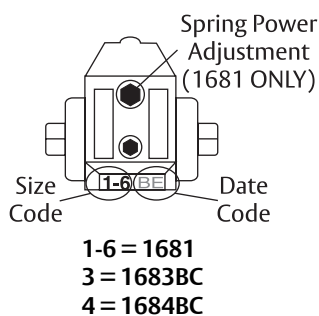
### To Determine Your Hand of Door:



LEFT  
HAND  
DOOR

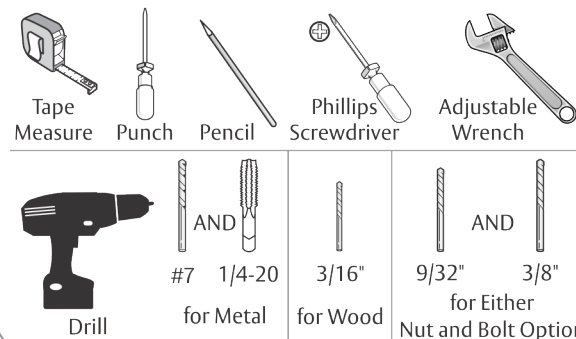
RIGHT  
HAND  
DOOR

### To Identify Your Model:



1-6 = 1681  
3 = 1683BC  
4 = 1684BC

### 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°. Use of door by handicapped, elderly or small children may require greater closing time.
- These door closers should NOT be installed on exposed side (weather side) of exterior doors.
- Dimensions are given in inches (millimeters).

Mounting Hardware	Door or Frame	Drill
 <b>Closer, Arm Shoe or Optional PA Bracket:</b> 1/4-14 x 1-1/2 Oval Flat Head Mach. Screw	Wood	3/16" (4.76mm)
 <b>Closer, Arm Shoe or Optional PA Bracket:</b> 1/4-20 x 3/4 Oval Flat Head Mach. Screw	Metal	Drill #7 (.201 dia. or 5.10mm) Tap 1/4-20
 <b>Closer:</b> Sleeve Nut and Bolt (SNB) (optional)	Hollow Metal	9/32" (7.00mm) thru 3/8" (9.50mm) door face opposite to closer
	Aluminum or Wood	3/8" (9.50mm) thru
 <b>Closer:</b> Thru Bolt and Grommet Nut (TBGN) (optional)	All	9/32" (7.00mm) thru 3/8" (9.50mm) dia. x 3/8" (9.50mm) deep, door face opposite to closer

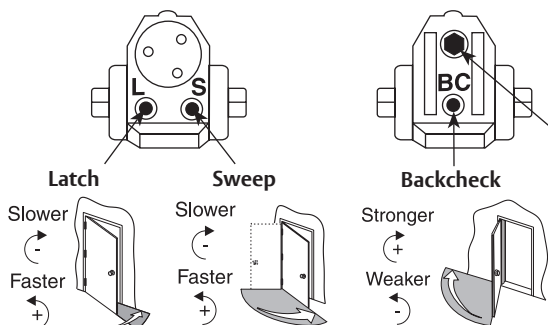
## Closer Adjustments




Use provided 1/8" 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 chart. **Do not use a power drill. Warranty will be void.**

"DA" suffix (Delayed Action) is an optional feature. A separate instruction will be packed with these instructions showing valve locations and adjustment procedures.



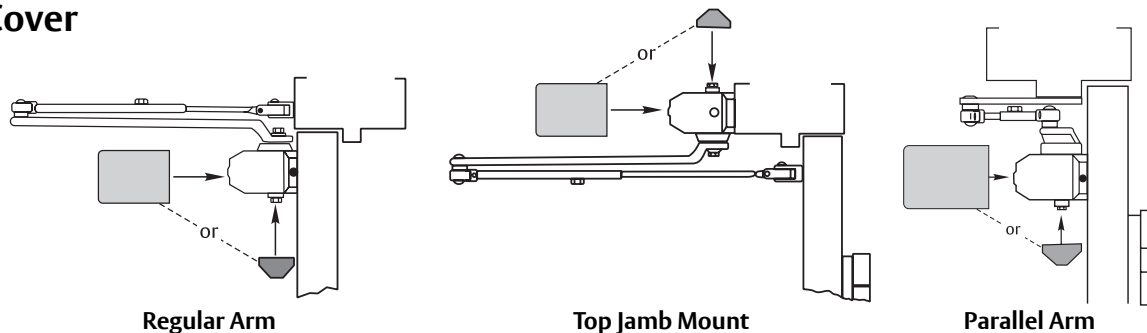
Spring Closing Power				Number of Turns Required				
DOOR	TYPE OF INST.	*	★	MAXIMUM DOOR SIZE				
				34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
1681	INTERIOR	Regular Arm Top Jamb	FULL 360° TURNS	2	4	6	10	12
	INTERIOR	Parallel Arm		3	5	8	11	14
	EXTERIOR	Regular Arm Top Jamb		3	5	8	11	14
	EXTERIOR	Parallel Arm		5	8	11	16	19

\*30 FULL (360°) TURNS MAXIMUM AVAILABLE     = 8 TURNS AS SHIPPED

## Pinion Cap or Cover

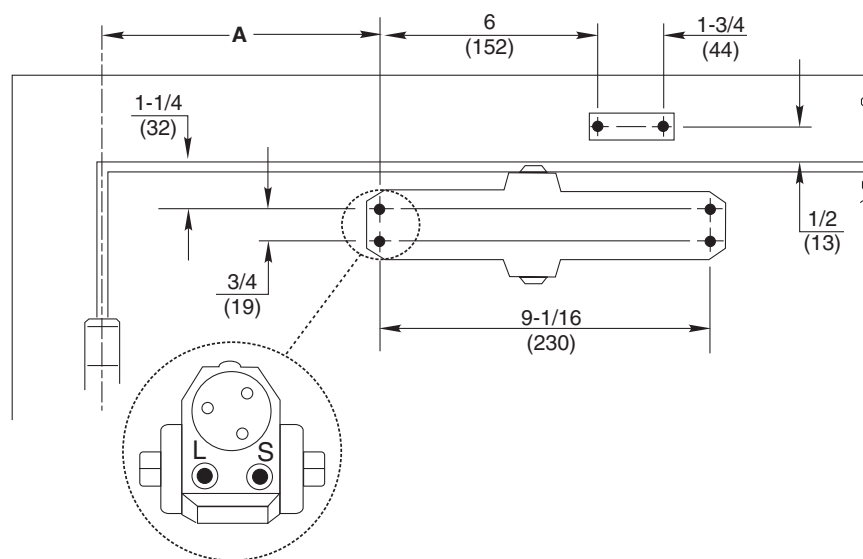


Do not over tighten cap or cover screws.



# 1680 Regular Arm Installation (Right Hand Shown)

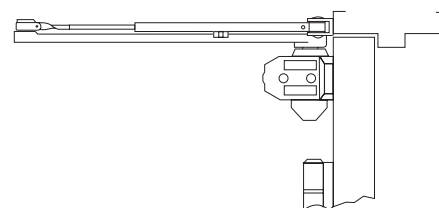
## 1. Prepare door and frame.



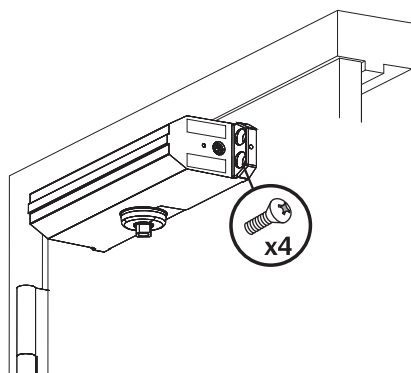
Opening	Dimension "A"
To 100°	$\frac{7}{(178)}$
101° to 120°	$\frac{6}{(152)}$
* 121° to 180°	$\frac{3-1/2}{(89)}$

\* Door/Wall/Hardware/Jamb conditions permitting

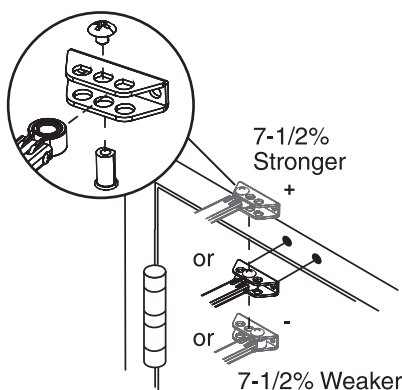
Side Elevation



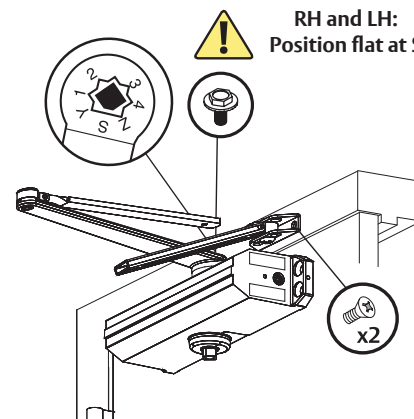
## 2. Mount closer to door.



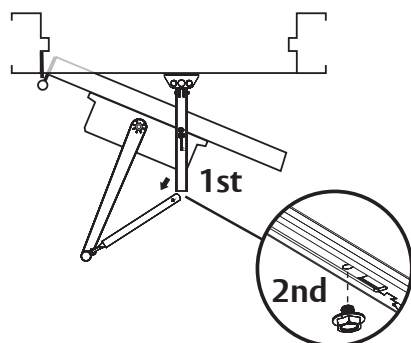
## 3a. Choose arm placement in shoe.



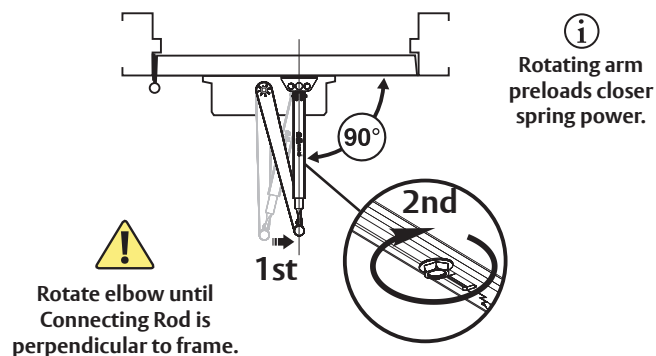
## 3b. Install separate arms.



## 4. Connect arms and install forearm screw.



## 5. Preload spring and tighten forearm screw.

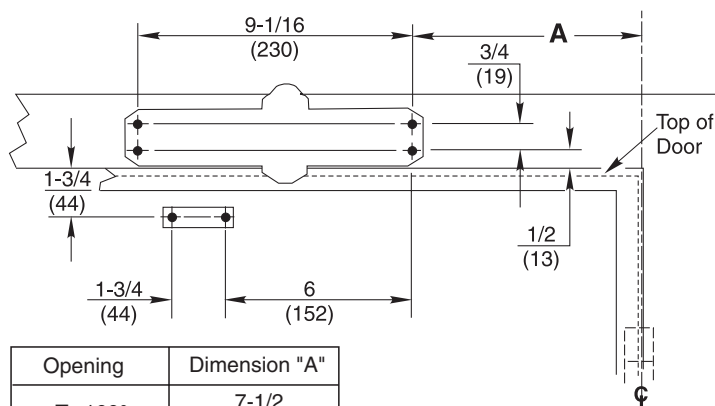


You've installed the 1680 Non Hold Open Closer - Regular Arm.

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

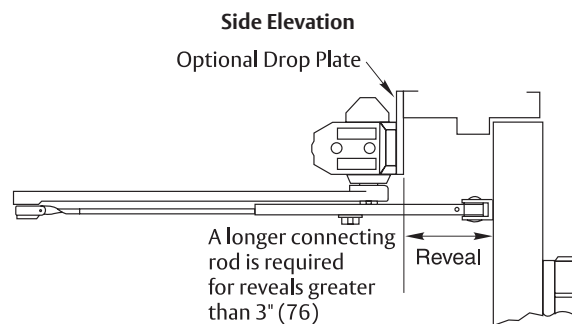
# 1680 Top Jamb Mount Installation (Right Hand Shown)

## 1. Prepare door and frame.



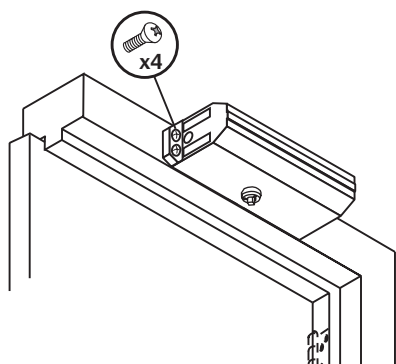
Opening	Dimension "A"
To 100°	7-1/2 (191)
101° to 120°	6 (152)
*121° to 180°	3-1/2 (89)

\* Door/Wall/Hardware/Jamb conditions permitting

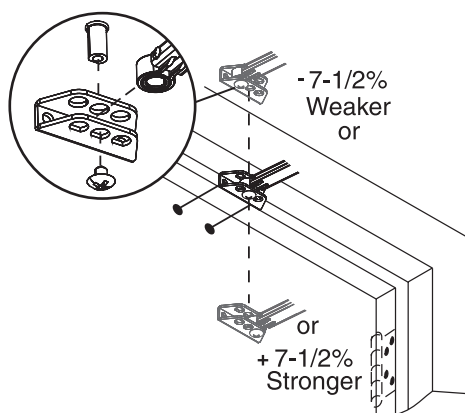


Note:  
If ceiling clearance is between 1-3/4" and 2-5/8" (44 and 67mm) or if an overhead door holder prevents normal top jamb mounting, use 1687 or 1688 Drop Plate. Prepare door and frame accordingly.

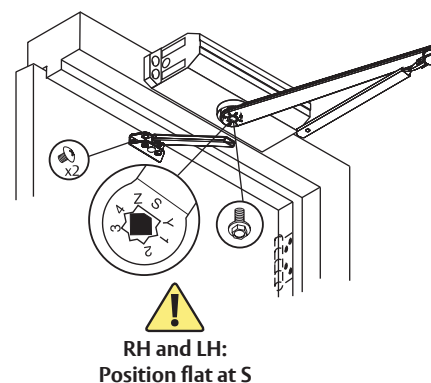
## 2. Mount closer to frame.



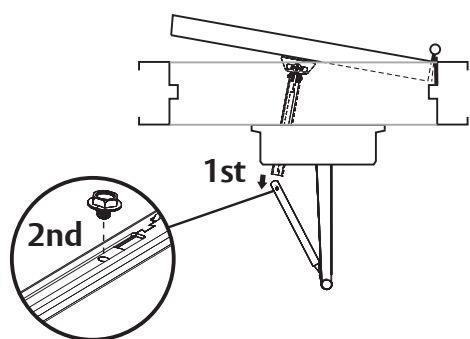
## 3a. Choose arm placement in shoe.



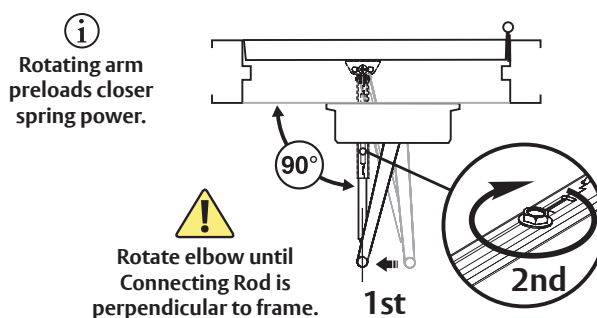
## 3b. Install separate arms.



## 4. Connect arms and install forearm screw.



## 5. Preload spring and tighten forearm screw.

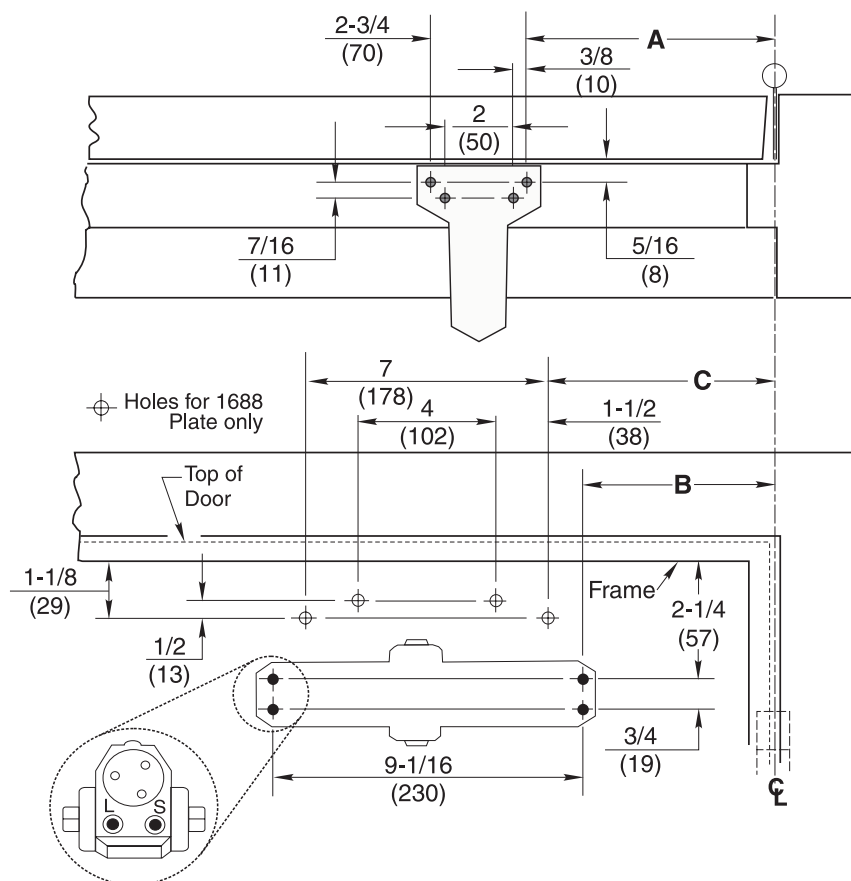


You've now installed the **1680 Non Hold Open Closer - Top Jamb Mount**.

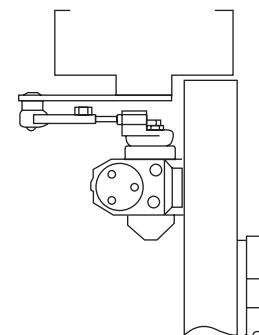
● Go to page 2 for closer adjustments and decorative cap or cover installation.

# 1680 Parallel Arm Installation (Right Hand Shown)

## 1. Prepare door and frame.



Side Elevation

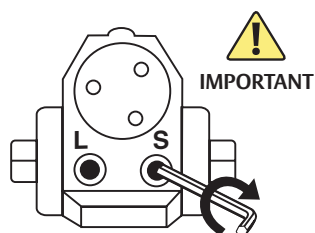


Door Opening	A	B	C
To 100°	9-1/4 (235)	7-5/8 (194)	8-5/8 (219)
101° to 130°	7-3/4 (197)	6-1/8 (156)	7-1/8 (181)
*131° to 180°	5-3/4 (146)	4-1/8 (105)	5-1/8 (130)

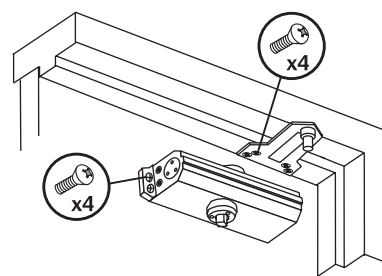
\* Door/Wall/Hardware/Jamb conditions permitting

Note:  
If top rail is 2-1/8" (54mm) or less and prevents closer from being mounted directly to the door surface, use 1688 Drop Plate. Prepare door and frame accordingly.

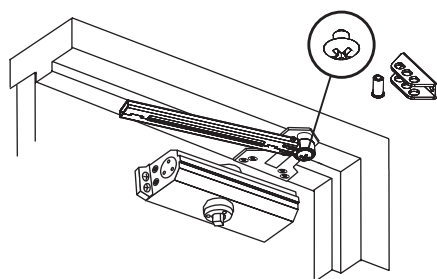
## 2. Close latch and sweep valves.



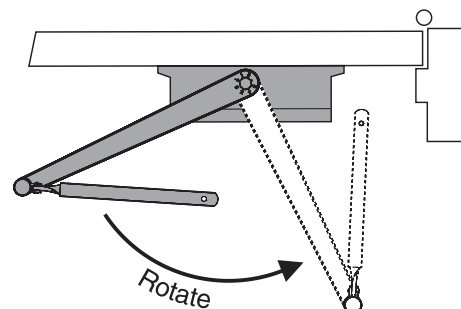
## 3. Install soffit plate and mount closer.



## 4. Remove arm shoe and install forearm to plate.

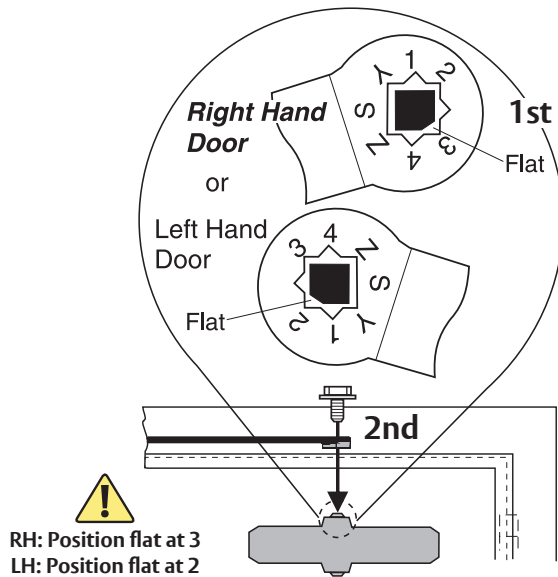


## 5. Place main arm on closer spindle and rotate.

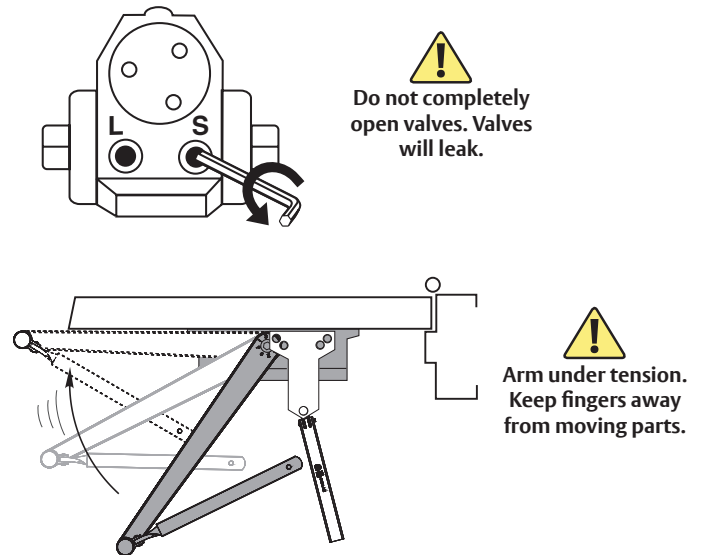


## 1680 Parallel Arm Installation (Right Hand Shown) continued

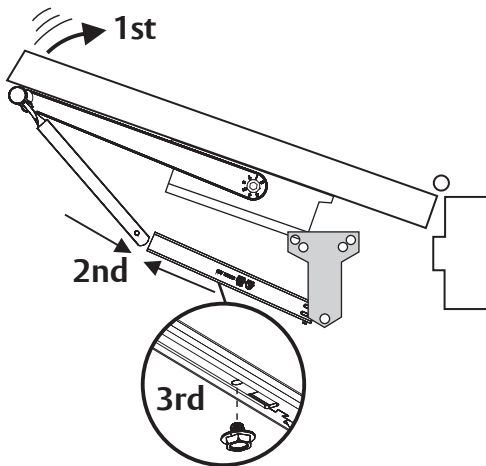
### 6. Remove arm and attach as shown.



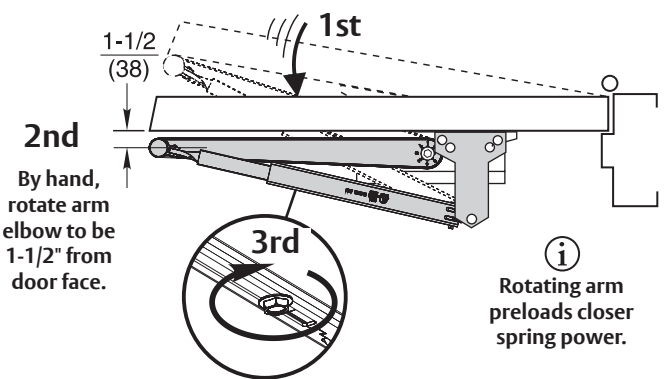
### 7. Open latch and sweep valves.



### 8. Connect arms and install forearm screw.



### 9. Preload spring and tighten forearm screw.



You've now installed the **1680 Non Hold Open Closer - Parallel Arm**.

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