

# Norton®

## 8000 Series Tri-Style Non Handed Door Closer

### Installation Instructions

80-9380-2206-020 (11-08)

### Non Hold Open Models

Sized  
(Sizes 2,3,4,5,6)

8100  
8300  
8500

Adjustable  
(Sizes 1 thru 6)

8301  
8501



**CAUTION** 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. **CAUTION**

"DA" suffix (Delayed Action) is an optional feature.

**NOTE:** 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.
- Door and frame must be properly reinforced.
- Always adjust spring power before adjusting control.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.
- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.

**Regular Arm Installation**  
See Page 2

Left Hand Door - LH  
Right Hand Reverse - RHR

**Top Jamb Installation**  
See Page 5

Left Hand Door - LH  
Right Hand Reverse - RHR

**Parallel Arm Installation**  
See Pages 3 & 4

Left Hand Door - LH  
Right Hand Reverse - RHR

**Regular Arm Installation**  
See Page 2

Right Hand Door - RH  
Left Hand Reverse - LHR

**Top Jamb Installation**  
See Page 5

Right Hand Door - RH  
Left Hand Reverse - LHR

**Parallel Arm Installation**  
See Pages 3 & 4

Right Hand Door - RH  
Left Hand Reverse - LHR

	<p><b>Metal</b></p> <p>#7 1/4-20</p>	<p><b>Wood</b></p> <p>3/16" * Pilot Hole Required</p>	<p><b>Self Drilling Screws Wood and Metal</b></p> <p>For Wood drill 3/16 hole</p> <p><b>Machine Screws</b></p> <p>#7 Drill, 1/4-20 Tap</p>	<p><b>(Optional) Thru Bolt and Grommet Nut</b></p> <p>Drill 9/32 thru from Closer Side 3/8 Drill other Side</p>
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**1618A Parallel Arm Bracket**

**Closer Body**

Backcheck Valve, Latch Valve, Sweep Valve, Power Adjustment Shaft

**8400M Cover**

Cover Clips, Cover Screws

**Optional 8500M Series Metal Cover**

Standoffs, Cover Screw

**Standard 8500 Series Full Cover**

Insert Cutouts, Cover Insert

**Standard 8300 Series Narrow Cover**

Pinion Cap (1639)

**Optional 8500A Series Architectural Plastic Cover**

Standoff, Insert Cutouts, Cover Insert

**Optional 8500MA Series Architectural Metal Cover**

Cover Screws

**NOTE:** Architectural Cover CAN NOT be used for doors swinging over 120° using parallel mount

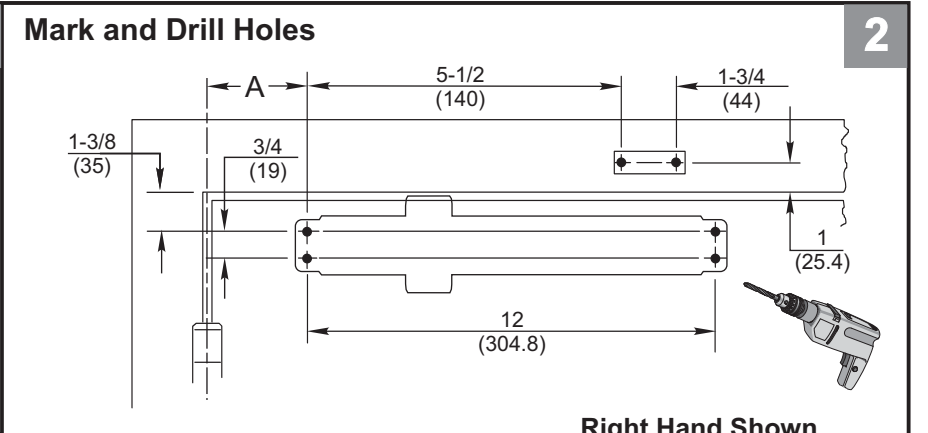
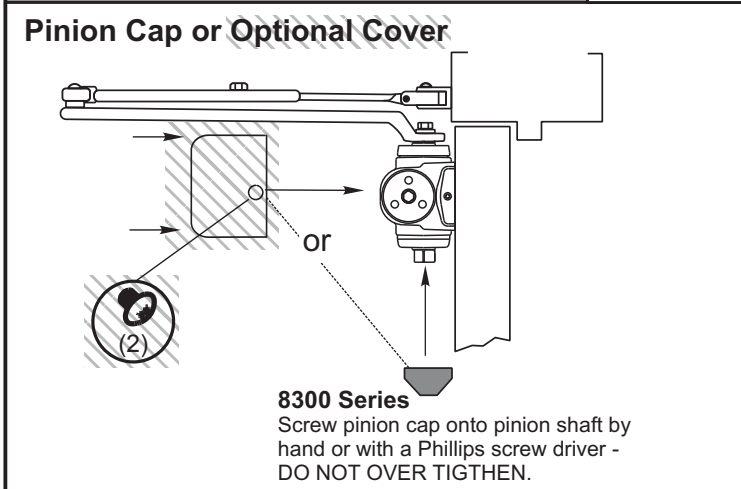
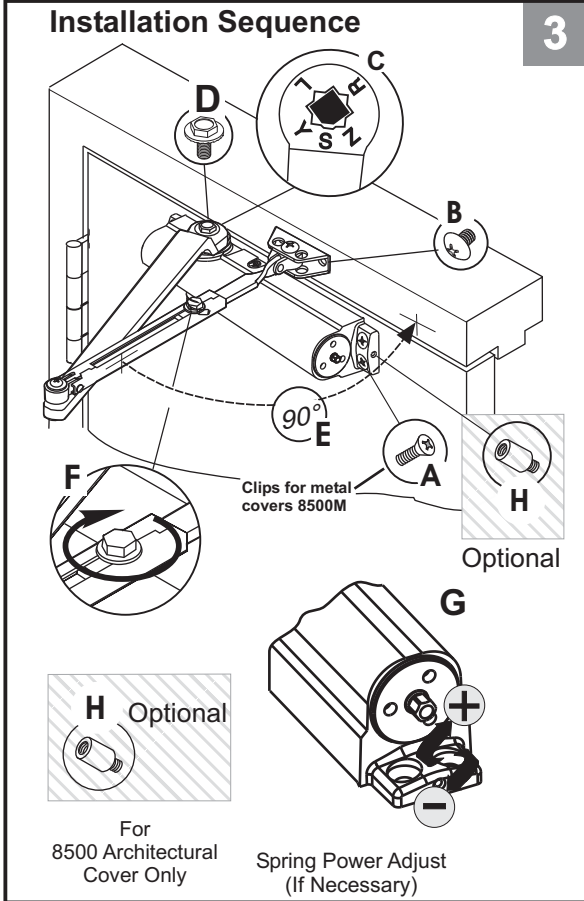
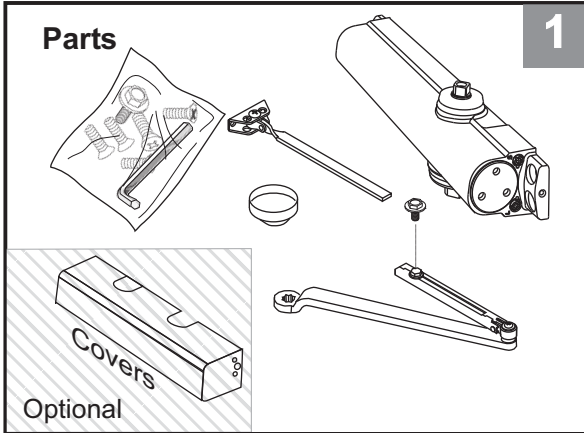
**Screw Pack**

Regular Arm/Top Jamb Shoe, Connecting Rod, Forearm Screw, Main Arm, Closer Arm

# 8000 Series

## Non Hold Open Door Closers — Regular Arm

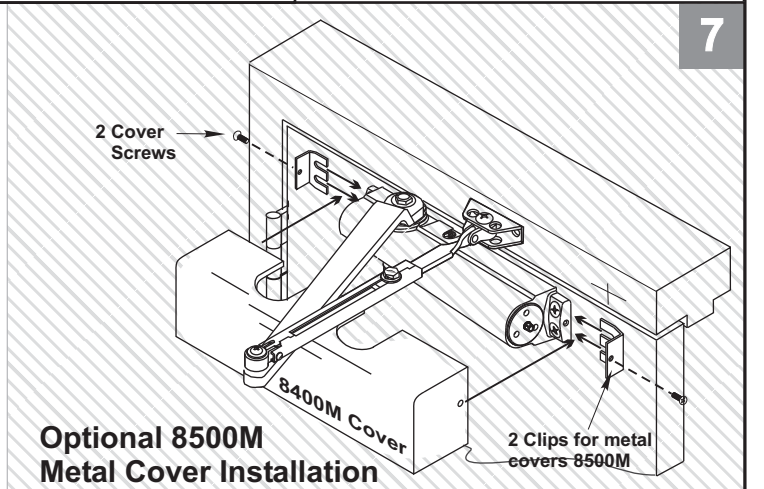
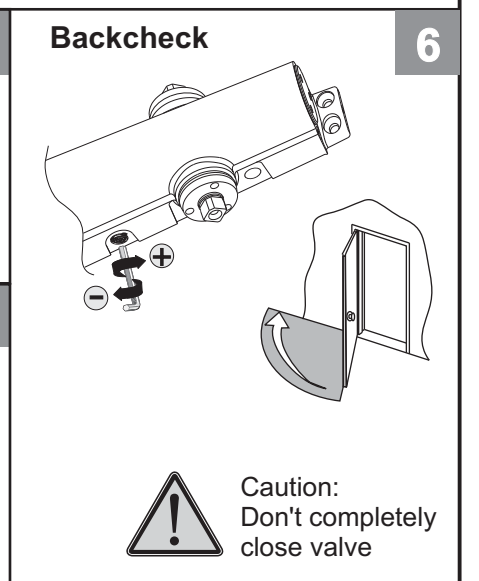
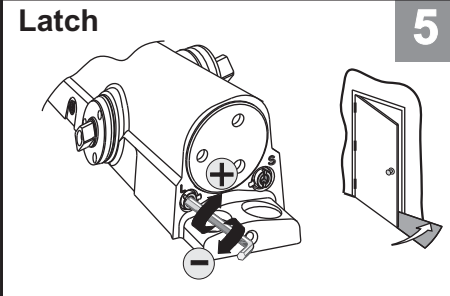
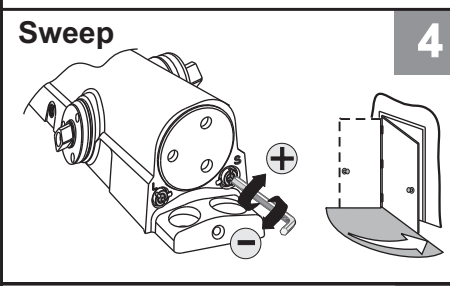
80-9380-2206-020 (11-08)



Right Hand Shown

Opening	Dimension "A"	Inches (mm)
To 100°	7-1/2 (191)	
101° to 130°	6 (152)	
131° to *180°	4-1/2 (114)	

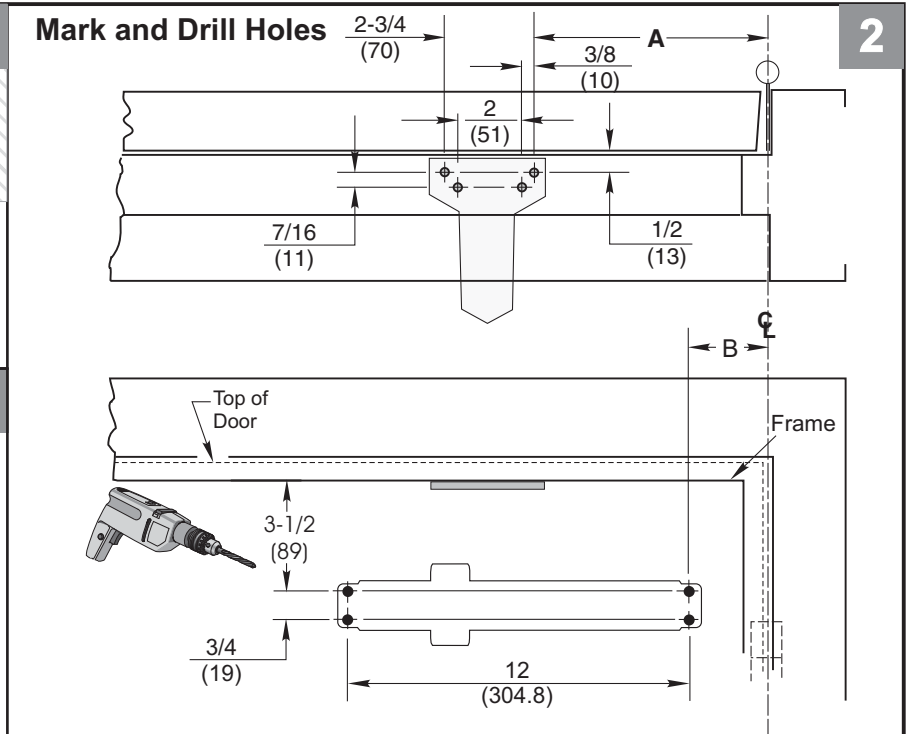
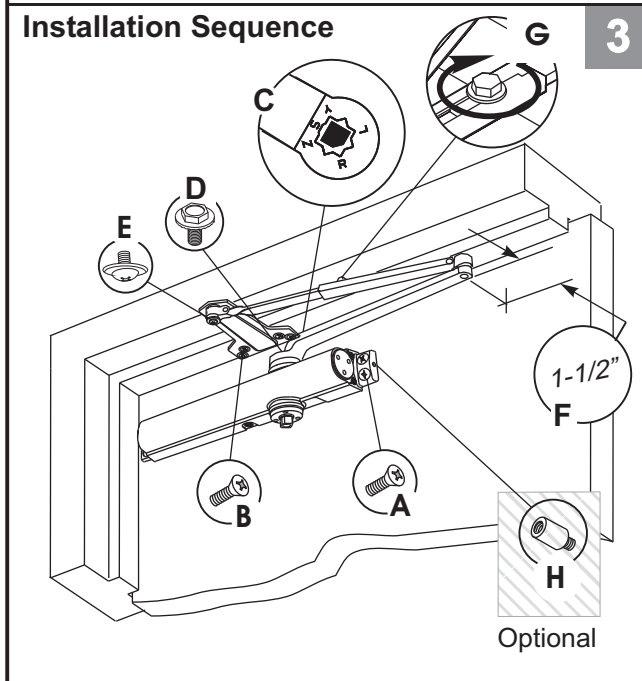
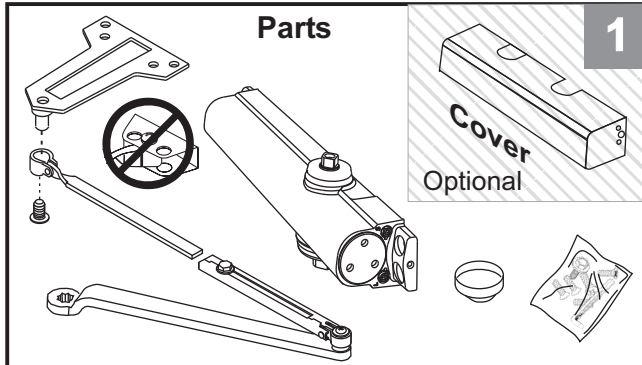
\* Door/Wall/Hardware/Jamb conditions permitting



# 8000 Series

## Non Hold Open Door Closers — Parallel Arm

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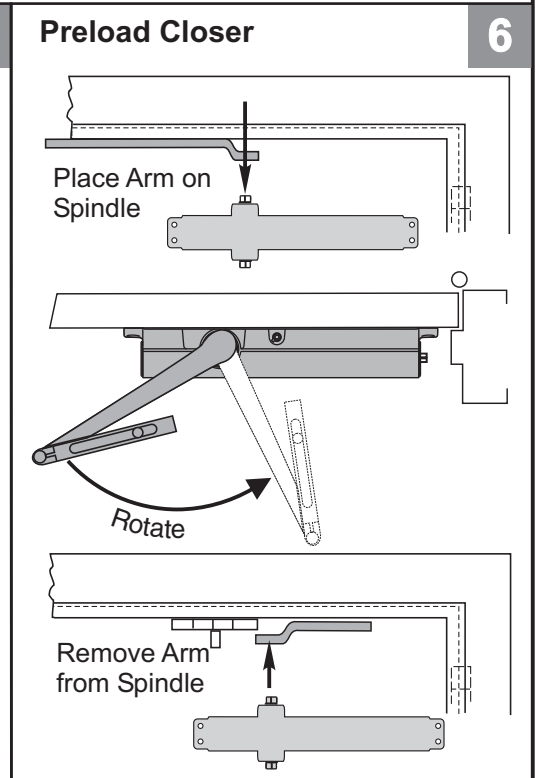
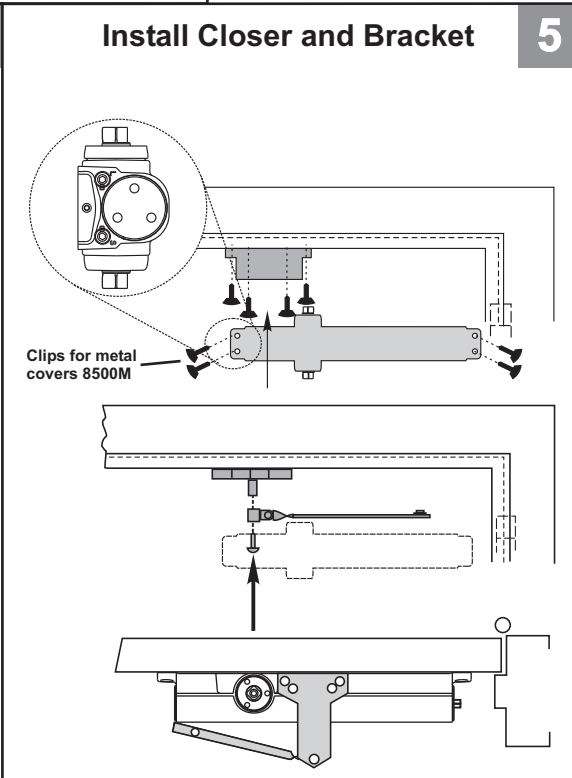
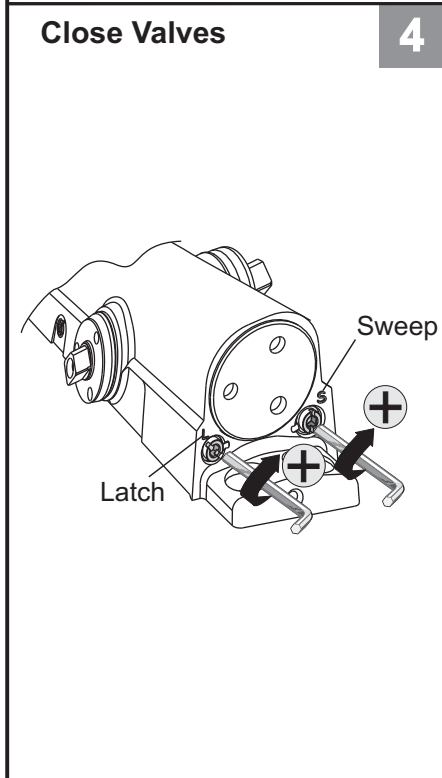


**Right Hand Shown**

Door Opening	A	B
To 120°	9-1/2 (241)	3-3/4 (95)
*121° to 180°	7 (178)	1-1/4 (32)

Inches (mm)

\* Door/Wall/Hardware/Jamb conditions permitting. 8500A and 8500MA Series cannot be installed for this door opening range.



# 8000 Series

## Non Hold Open Door Closers — Parallel Arm

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<p><b>7</b></p> <p>Right Hand Door or Left Hand Door</p> <p>Flat</p> <p>Flat</p> <p>A</p> <p>B</p>	<p><b>8</b></p> <p><b>Open Valves</b></p> <p>Sweep</p> <p>Latch</p> <p>S</p> <p><b>Caution:</b> Don't remove valves</p>	<p><b>9</b></p> <p><b>Assemble Arm</b></p>
<p><b>10</b></p> <p><b>Arm Screw</b></p> <p>1-1/2 (38)</p>	<p><b>11</b></p> <p><b>Spring Power Adjust (If necessary)</b></p> <p><b>Caution:</b> (Use 5/16" socket or adjustable wrench for this Adjustment)</p>	<p><b>12</b></p> <p><b>Sweep</b></p>
<p><b>14</b></p> <p><b>Backcheck</b></p> <p><b>Caution:</b> Don't completely close valve</p>	<p><b>15</b></p> <p><b>Pinion Cap or Optional Cover</b></p> <p>8300 Series Or Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.</p>	<p><b>Optional 8500M Metal Cover Installation</b></p> <p>8500M Cover</p> <p>2 Cover Screws</p> <p>2 Clips for metal covers 8500M</p>

# 8000 Series

## Non Hold Open Door Closers — Top Jamb Arm

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### 1 Parts

**Optional Covers**

### 2 Mark and Drill Holes

**Inches (mm)**

*Right Hand Shown*

\* Door/Wall/Hardware/Jamb conditions permitting

Opening	Dimension "A"
To 100°	7-1/2 (191)
101° to 130°	6 (152)
131° to *180°	4-1/2 (114)

A longer connecting rod, 7701-1A, is required for reveals greater than 3" (76)

### 3 Installation Sequence

**Optional**

Clips for metal covers 8500M

90°

**Optional**

**Spring Power Adjust (If Necessary)**

**Optional**

For 8500 Architectural Cover Only

### 4 Sweep

### 6 Backcheck

**Caution:** Don't completely close valve

### 5 Latch

### Pinion Cap or Optional Cover

**8300 Series**

Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

### 7 Optional 8500M Metal Cover Installation

2 Cover Screws

8400M Cover

2 Clips for metal covers 8500M

# 8000 Series

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**Norton**

**ASSA ABLOY**

ASSA ABLOY, the global leader in door opening solutions

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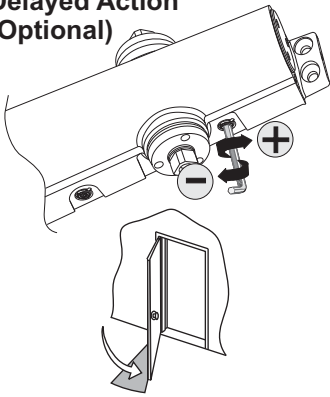
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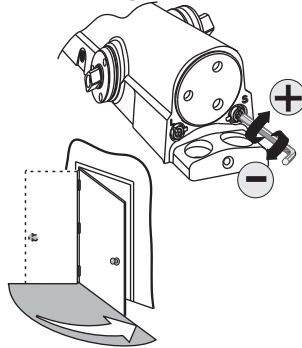
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(Use 1/8" Hex Wrench for these Adjustments)

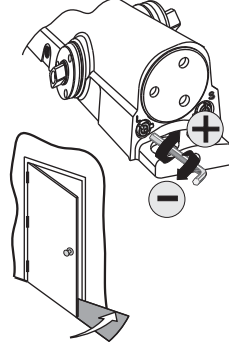
## Delayed Action (Optional)



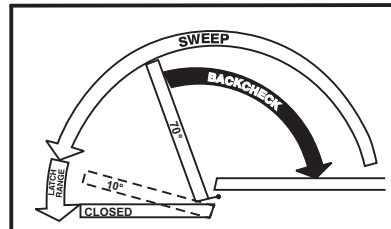
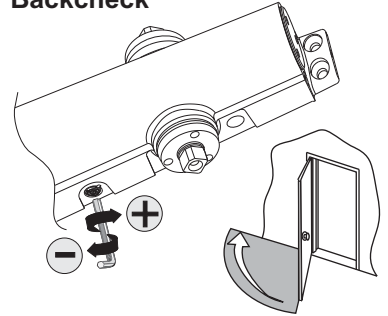
## Sweep



## Latch

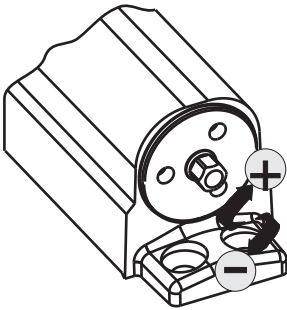


## Backcheck



Adjust Closing Speed Time to between 3 to 7 seconds from 90°. Use of the door by handicapped, elderly or small children may require greater closing time.

## Spring Power Adjust



(Use 5/16" Socket or Adjustable Wrench for this Adjustment)

## Adjustment Chart (8301 & 8501 Only)

				Number of Turns Required			
				MAXIMUM DOOR SIZE			
	DOOR	TYPE OF INST.	*	32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)
8100/8300/8500	INTERIOR	Regular Arm Top Jamb	FULL 360° TURNS OF 1/8" POWER ADJUSTMENT WRENCH	5	8	11	13
		Parallel Arm		7	10	13	16
	EXTERIOR	Regular Arm Top Jamb		7	10	13	16
		Parallel Arm		9	12	15	18

\*20 FULL (360°) TURNS MAXIMUM AVAILABLE  
Closer is shipped set at mid range setting = 10 turns



The closing force for series 8301 & 8501 door closers is adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, they may not have adequate closing force to reliably close and latch the door. Power adjustments charted on this page are recommended where possible, to ensure proper door control.



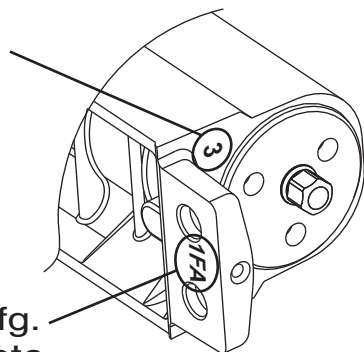
By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessibility guidelines.

## To identify your model:

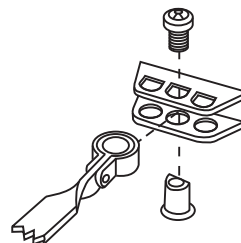
### Closer Size

- 1-6 = Blank
- 2 = 8302/8502
- 3 = 8303/8503
- 4 = 8304/8504
- 5 = 8305/8505
- 6 = 8306/8506

Mfg. Date



## Arm Placement in Shoe



7-1/2 % stronger



or

or



7-1/2 % weaker