



Installation Instructions

80-9303-2206-010 Rev 2 (09-17)

Non Hold Open Models

Sized (Sizes 2,3,4,5,6)	Adjustable (Sizes 1 thru 6)
3100	3301
3300	3501
3500	



3000 Series Tri-Style Non Handed Door Closer

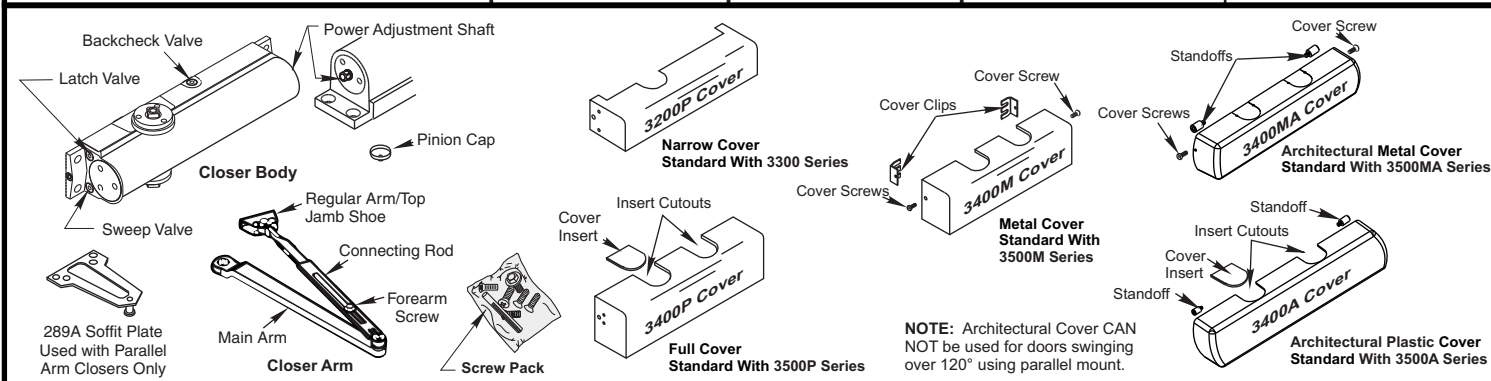
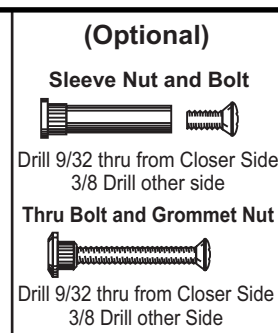
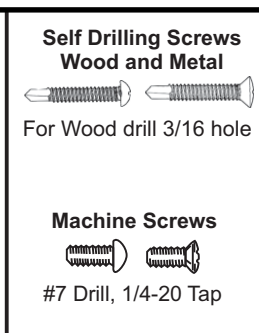
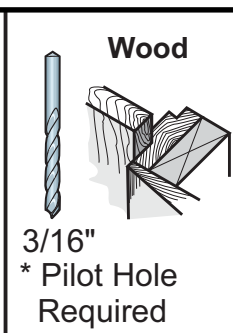
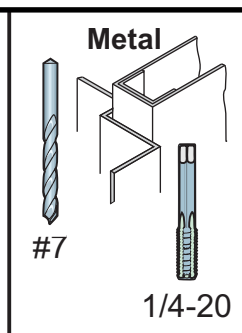
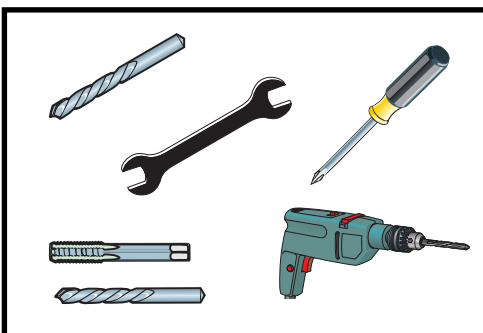
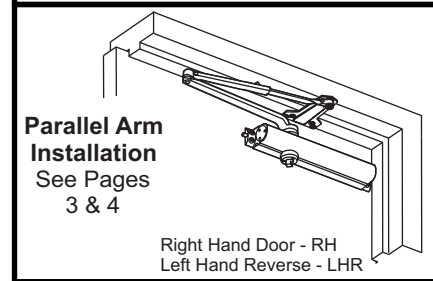
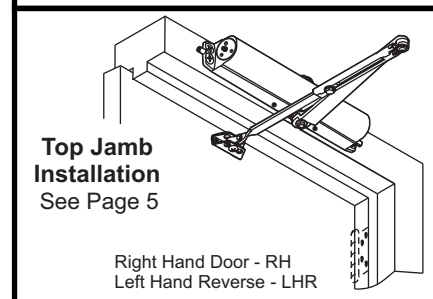
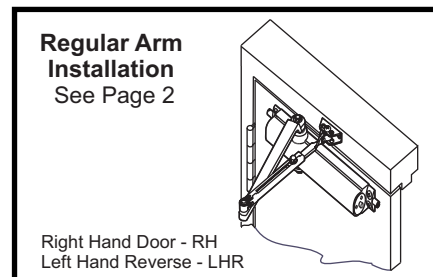
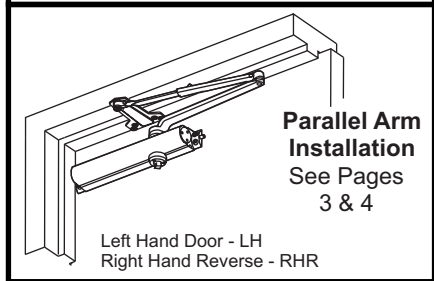
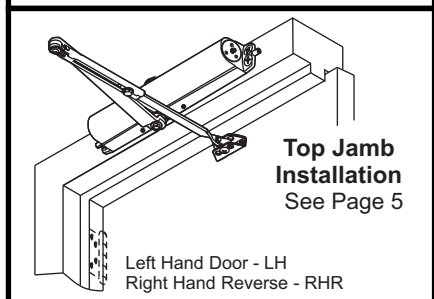
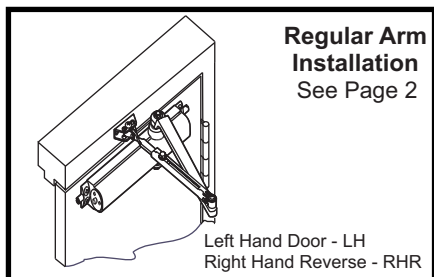


CAUTION An Incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment. **CAUTION**

"DL" 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.

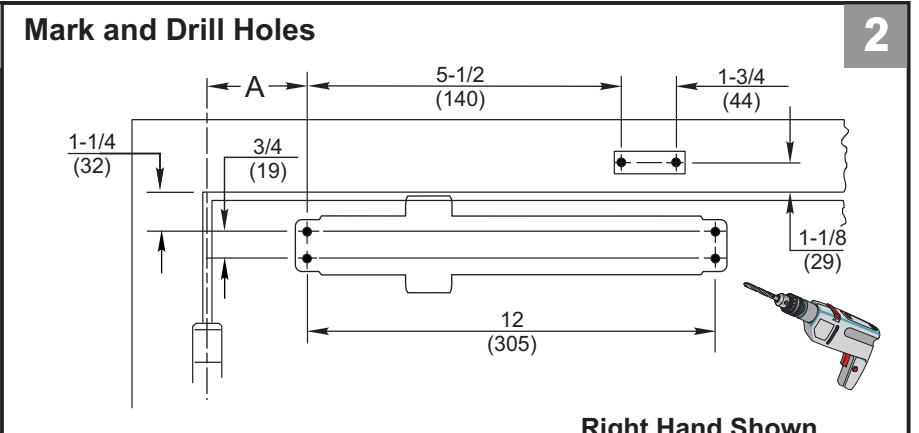
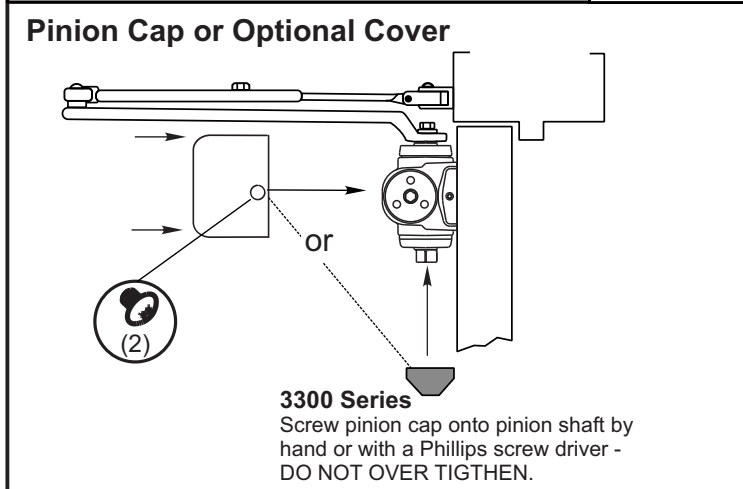
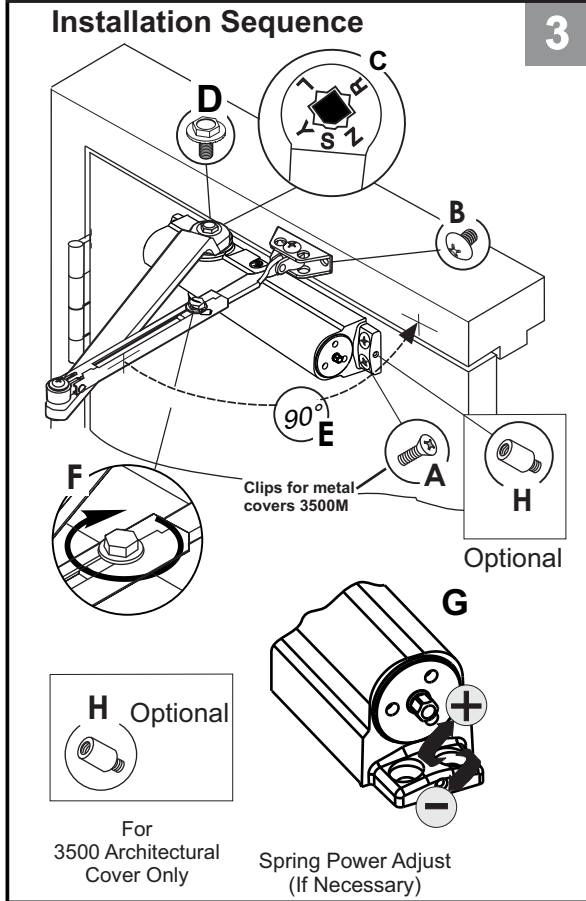
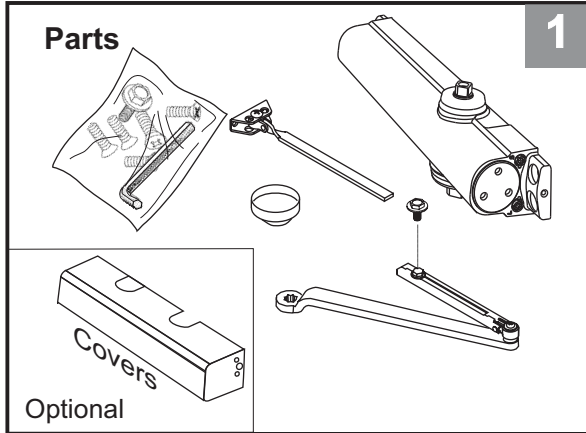
- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.
- Door and frame must be properly reinforced.
- Always adjust spring power before adjusting control.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.
- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.



3000 Series

Non Hold Open Door Closers — Regular Arm

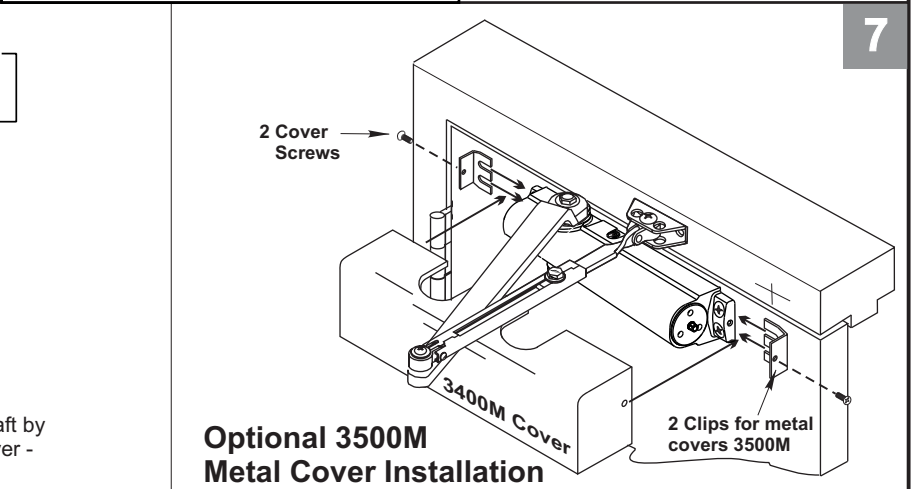
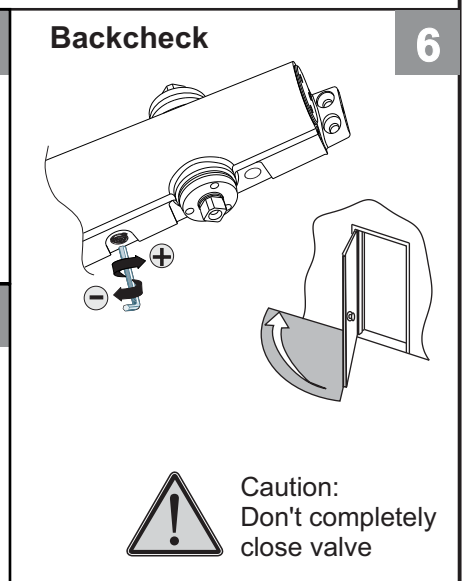
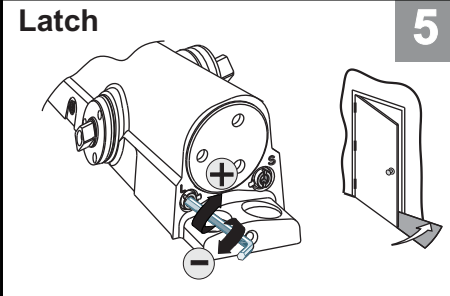
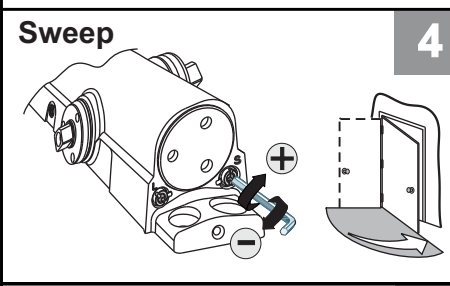
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Right Hand Shown

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

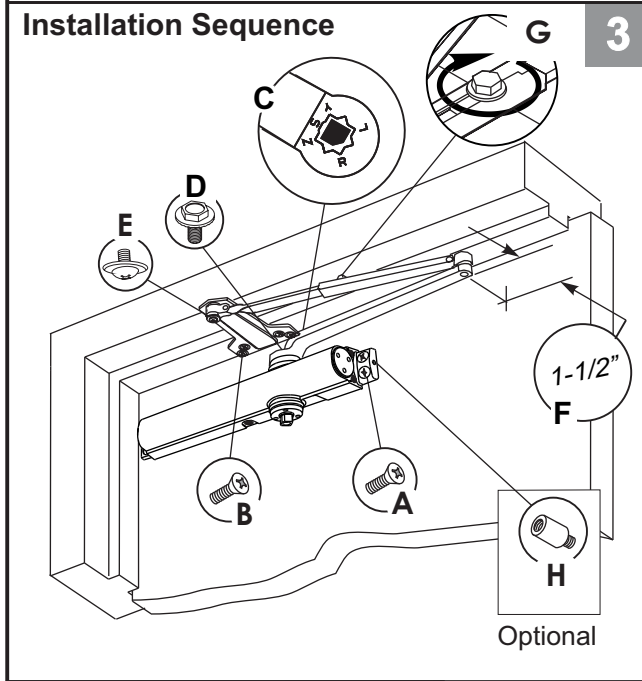
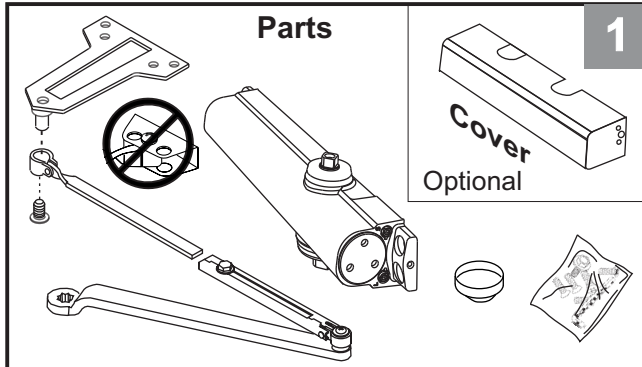
* Door/Wall/Hardware/Jamb conditions permitting



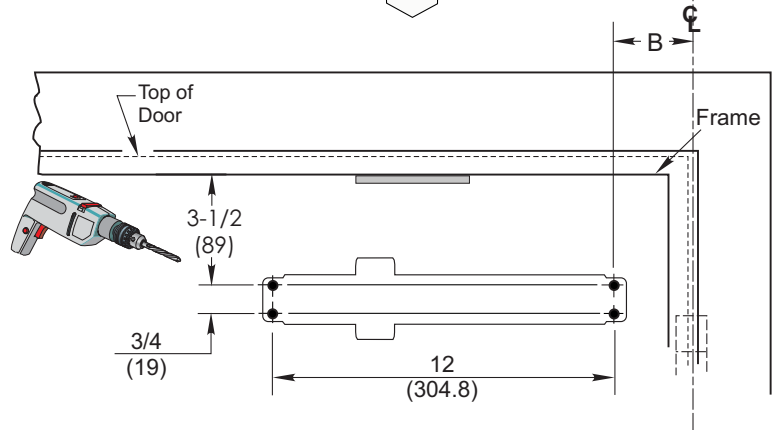
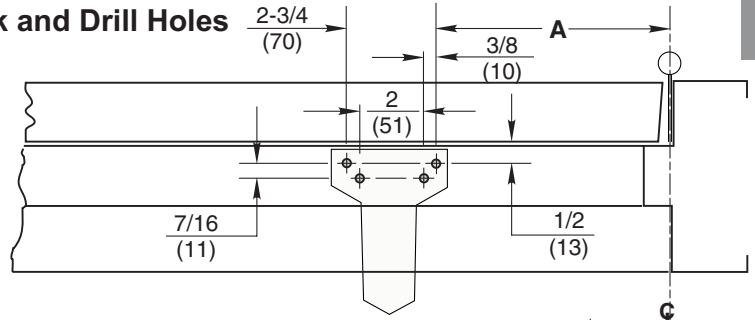
3000 Series

Non Hold Open Door Closers — Parallel Arm

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Mark and Drill Holes



Right Hand Shown

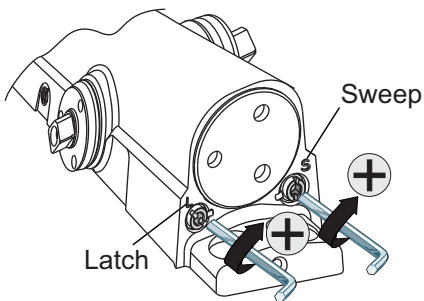
Inches
(mm)

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

* Door/Wall/Hardware/Jamb conditions permitting. 3500A and 3500MA Series cannot be installed for this door opening range.

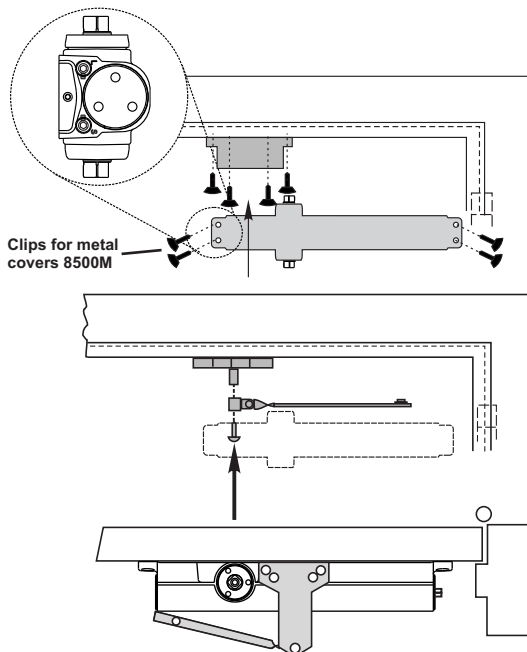
Close Valves

4



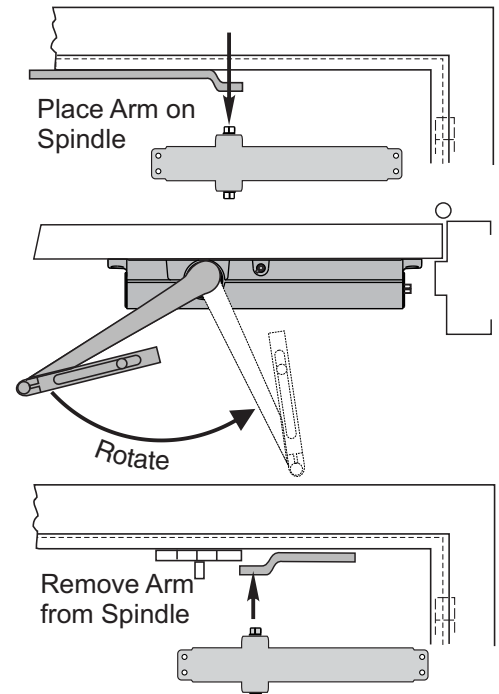
Install Closer and Bracket

5



Preload Closer

6



3000 Series

Non Hold Open Door Closers — Parallel Arm

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<p>7</p> <p>Right Hand Door or Left Hand Door</p> <p>Flat</p> <p>Flat</p> <p>B</p>	<p>8</p> <p>Open Valves</p> <p>Sweep</p> <p>Latch</p> <p>Caution: Don't remove valves</p>	<p>9</p> <p>Assemble Arm</p>
<p>10</p> <p>Arm Screw</p> <p>1-1/2 (38)</p>	<p>11</p> <p>Spring Power Adjust (If necessary)</p> <p>(Use 5/16" socket or adjustable wrench for this Adjustment)</p>	<p>12</p> <p>Sweep</p>
<p>14</p> <p>Backcheck</p> <p>Caution: Don't completely close valve</p>	<p>15</p> <p>Pinion Cap or Optional Cover</p> <p>3300 Series Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.</p> <p>Or</p>	<p>Optional 3500M Metal Cover Installation</p> <p>3400M Cover</p> <p>2 Cover Screws</p> <p>2 Clips for metal covers 3500M</p>

3000 Series

Non Hold Open Door Closers — Top Jamb Arm

80-9303-2206-010 Rev 2 (09-17)

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, 400-11A, is required for reveals greater than 3" (76)

Reveal

3 Installation Sequence

Optional H Clips for metal covers 3500M

90°

Spring Power Adjust (If Necessary)

Optional H For 3500 Architectural Cover Only

4 Sweep

6 Backcheck

Caution: Don't completely close valve

5 Latch

Pinion Cap or Optional Cover

3300 Series
Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

7 Optional 3500M Metal Cover Installation

2 Cover Screws

3400M Cover

2 Clips for metal covers 3500M

3000 Series

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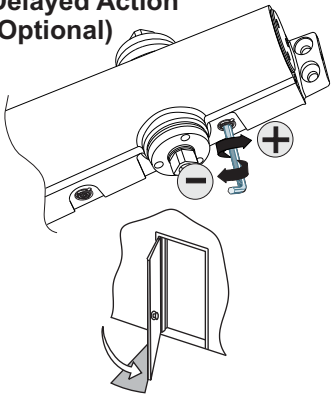


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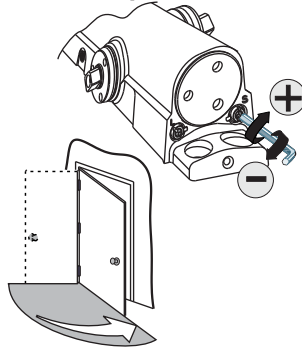
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(Use 1/8" Hex Wrench for these Adjustments)

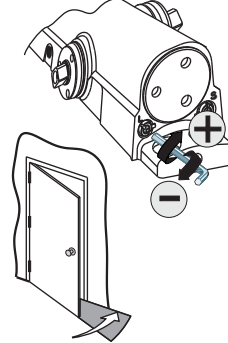
Delayed Action (Optional)



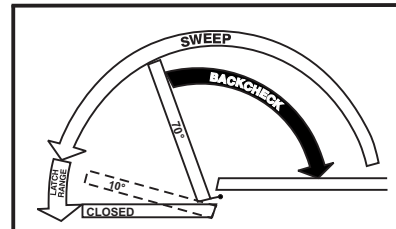
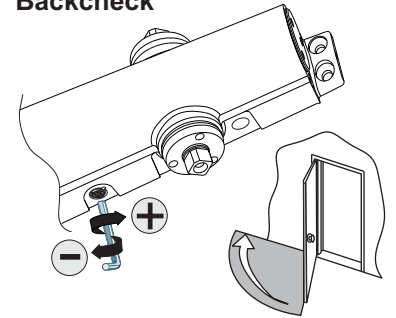
Sweep



Latch

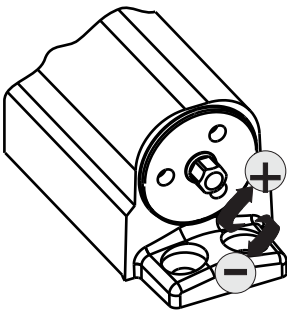


Backcheck



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 (3301 & 3501 Only)

			Number of Turns Required				
			MAXIMUM DOOR SIZE				
	DOOR	TYPE OF INST.	*	32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)
3100/3300/3500	INTERIOR	Regular Arm Top Jamb	FULL 360° TURNS OF 5/16" 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



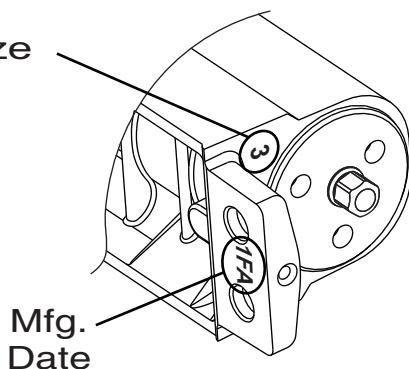
The closing force for series 3301 & 3501 door closers is adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, they may not have adequate 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**
- Blank = 3301/3501
 - 2 = 3302/3502
 - 3 = 3303/3503
 - 4 = 3304/3504
 - 5 = 3305/3505
 - 6 = 3306/3506



Arm Placement in Shoe

