Norton®

ASSA ABLOY

Installation Instructions

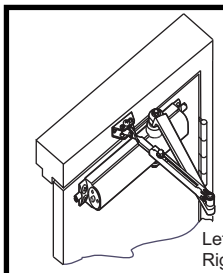
8000 Series Tri-Style

Non Handed Door Closer

Non Hold Open Models

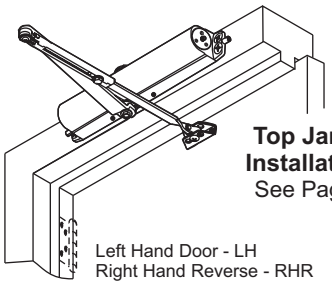
Sized (Sizes 2,3,4,5,6)	Adjustable (Sizes 1 thru 6)
8100 8300 8500	8301 8501

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**



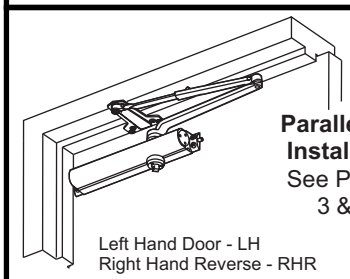
Regular Arm Installation
See Page 2

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

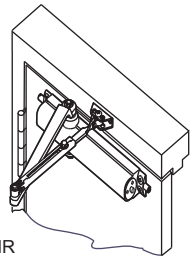
Left Hand Door - LH
Right Hand Reverse - RHR

"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.

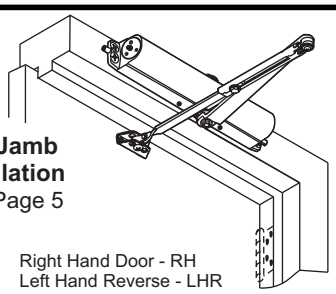
- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.
- Door and frame must be properly reinforced.
- Always adjust spring power before adjusting control.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°. Greater closing times may be 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



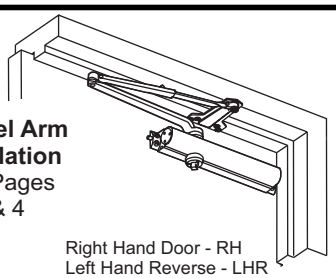
Right Hand Door - RH
Left Hand Reverse - LHR

Top Jamb Installation
See Page 5

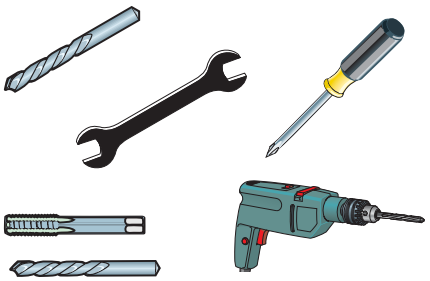


Right Hand Door - RH
Left Hand Reverse - LHR

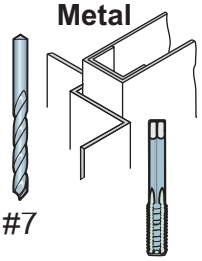
Parallel Arm Installation
See Pages 3 & 4



Right Hand Door - RH
Left Hand Reverse - LHR

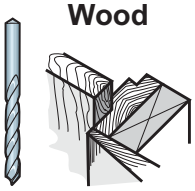


Metal



#7
1/4-20

Wood



3/16"
* Pilot Hole Required

Self Drilling Screws Wood and Metal



For Wood drill 3/16 hole

Machine Screws



#7 Drill, 1/4-20 Tap

(Optional)

Sleeve Nut and Bolt

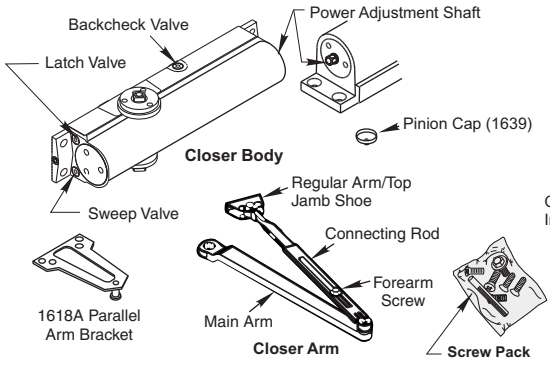


Drill 9/32 thru from Closer Side
3/8 Drill other side

Thru Bolt and Grommet Nut

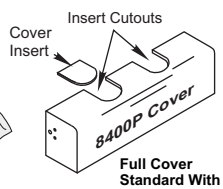


Drill 9/32 thru from Closer Side
3/8 Drill other Side

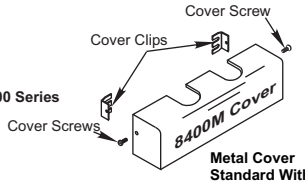




Narrow Cover Standard With 8300 Series

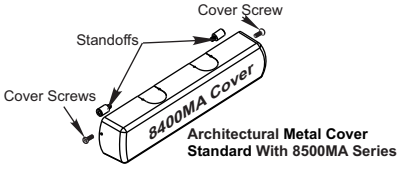


Full Cover Standard With 8500P Series

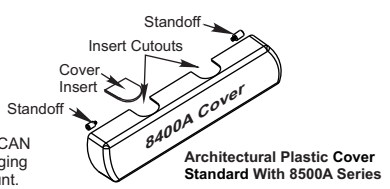


Metal Cover Standard With 8500M Series

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



Architectural Metal Cover Standard With 8500MA Series



Architectural Plastic Cover Standard With 8500A Series

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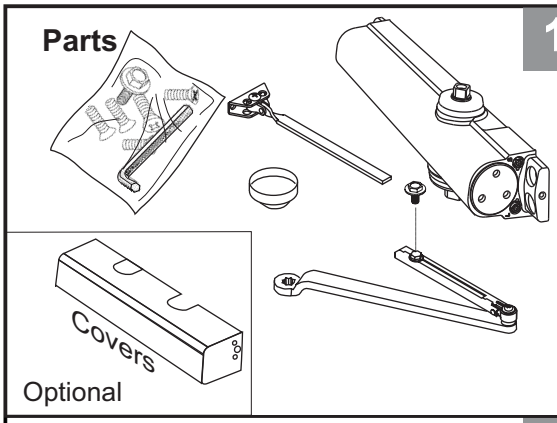
ASSA ABLOY, the global leader in door opening solutions

80-9380-2206-020 (07-14)

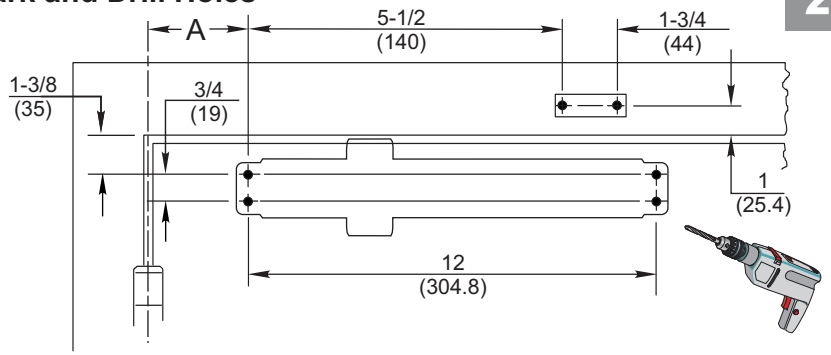
Non Hold Open Door Closers — **Regular Arm**

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1 Parts



2 Mark and Drill Holes

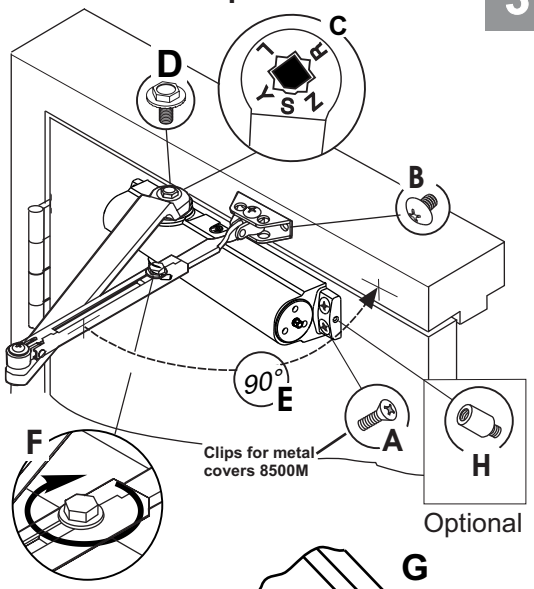


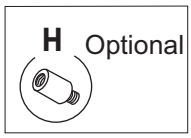
Right Hand Shown

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

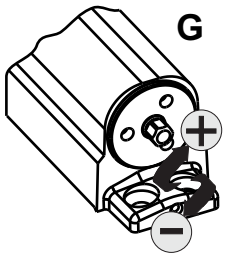
* Door/Wall/Hardware/Jamb conditions permitting

3 Installation Sequence



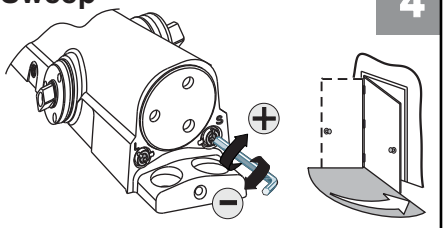


For 8500 Architectural Cover Only

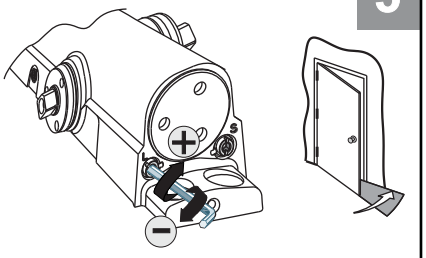


Spring Power Adjust (If Necessary)

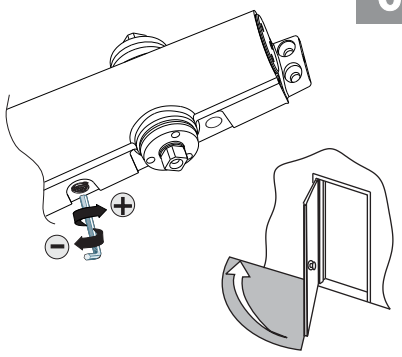
4 Sweep



5 Latch

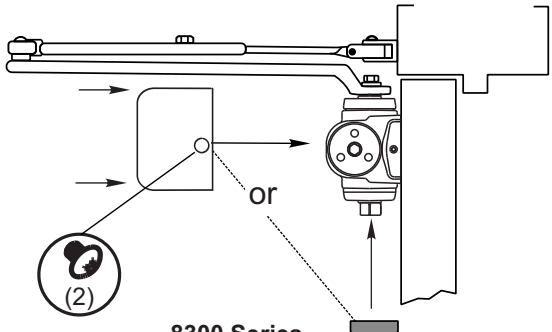


6 Backcheck



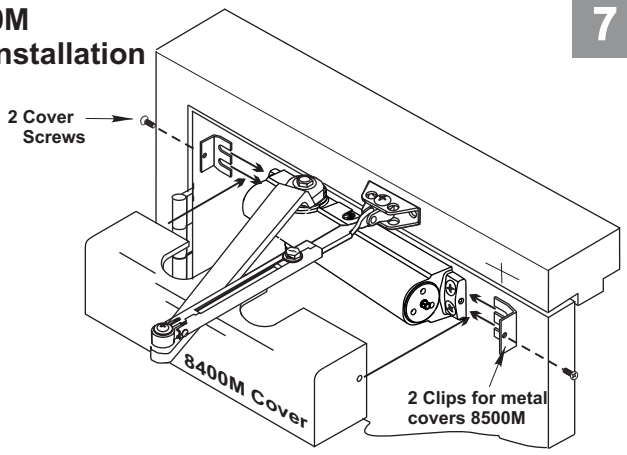
Caution:
Don't completely close valve

Pinion Cap or Optional Cover



8300 Series
Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGTHEN.

7 Optional 8500M Metal Cover Installation



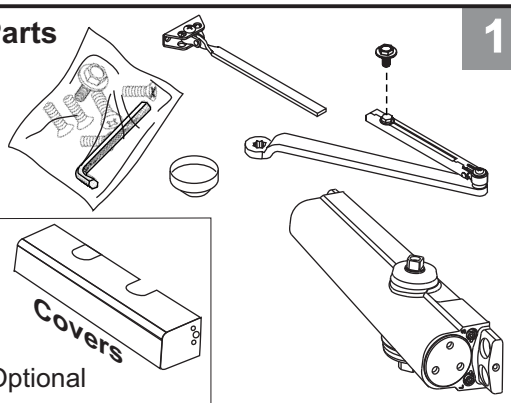
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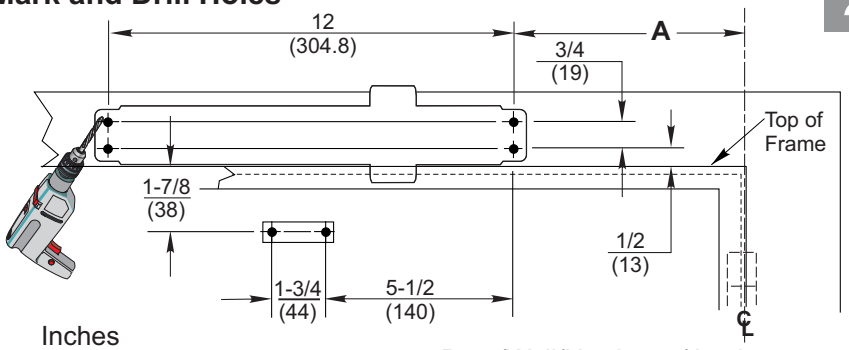
Non Hold Open Door Closers — **Top Jamb Arm**

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Parts 1



Mark and Drill Holes 2



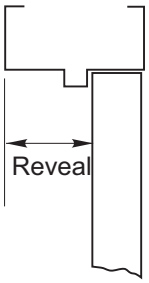
Inches
(mm)

Right Hand Shown

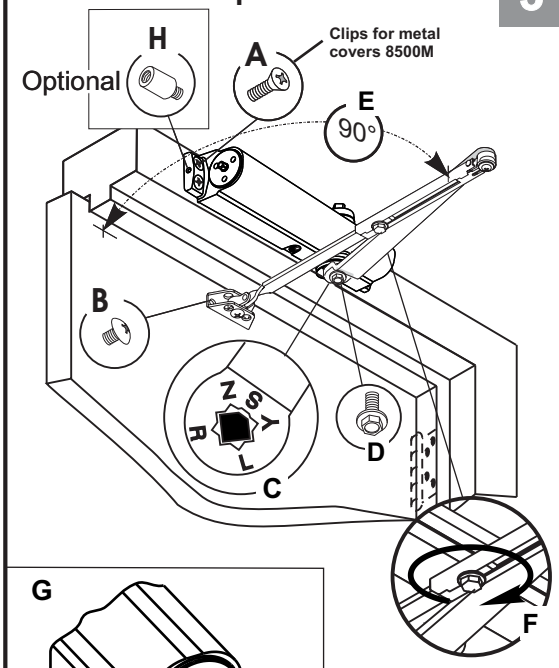
∗ Door/Wall/Hardware/Jamb conditions permitting

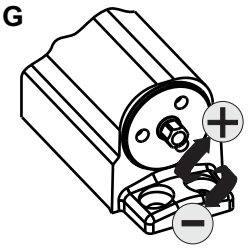
Opening	Dimension "A"
To 100°	7-1/2 (191)
101° to 130°	6 (152)
131° to *180°	4-1/2 (114)

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



Installation Sequence 3





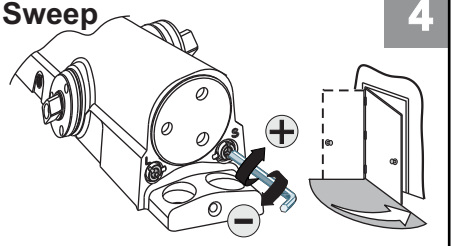
Spring Power Adjust
(If Necessary)



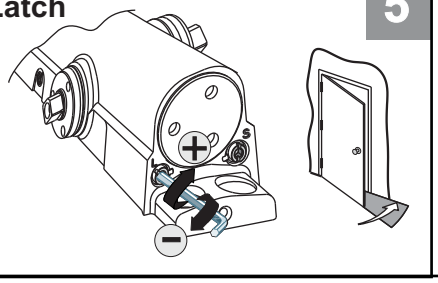
Optional

For
8500 Architectural
Cover Only

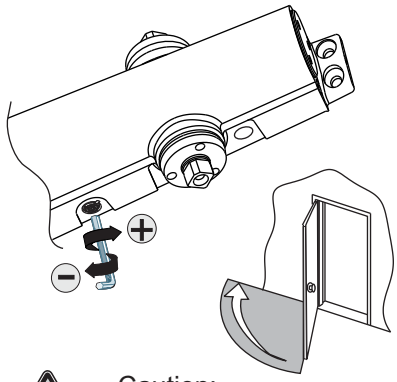
Sweep 4



Latch 5

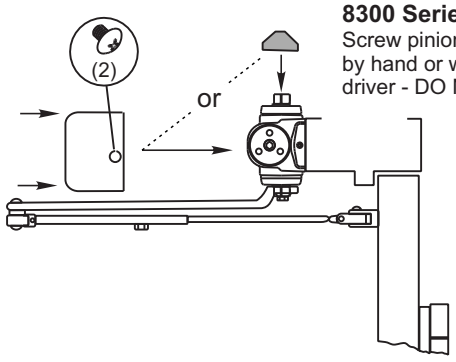


Backcheck 6



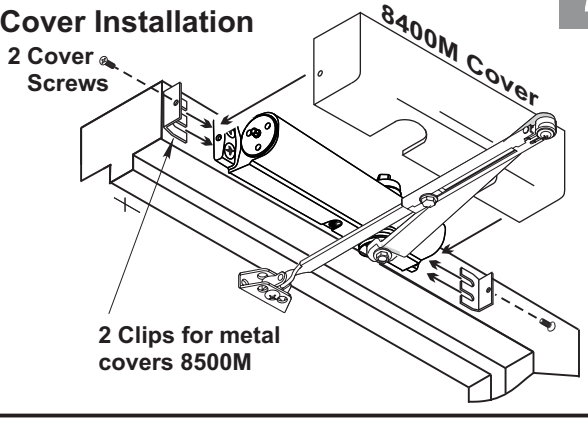
Caution:
Don't completely
close valve

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.

Optional 8500M Metal Cover Installation 7



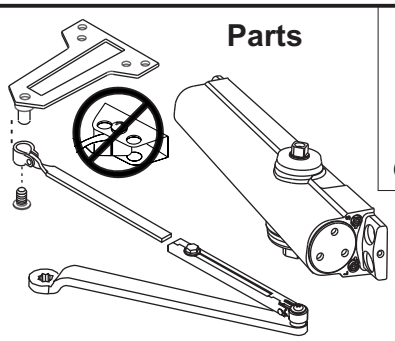
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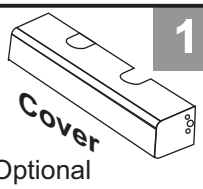
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Non Hold Open Door Closers — **Parallel Arm**

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Parts



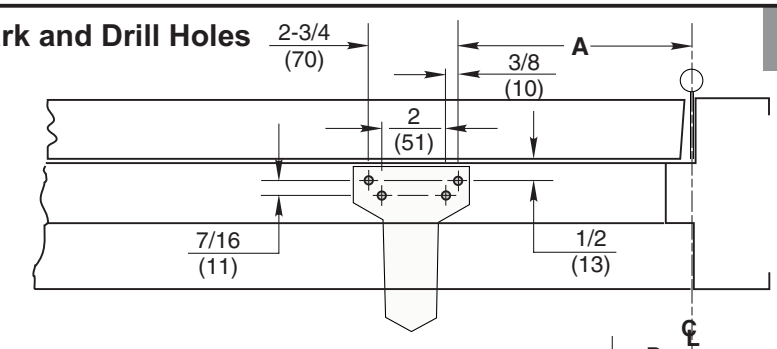


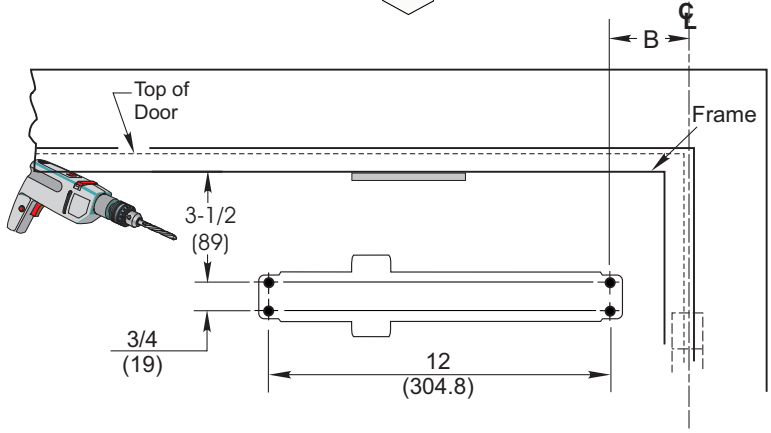
Optional



1

Mark and Drill Holes





2

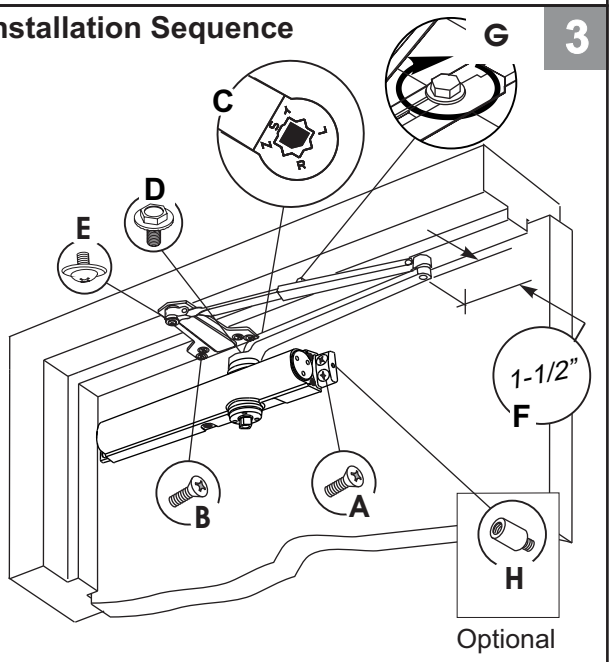
Right Hand Shown

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. 8500A and 8500MA Series cannot be installed for this door opening range.

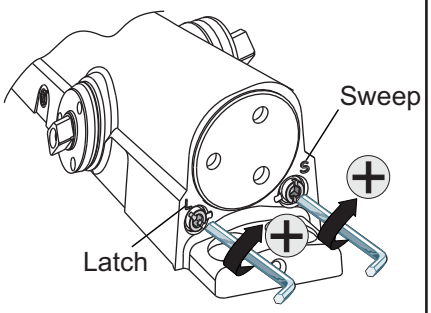
Installation Sequence



Optional

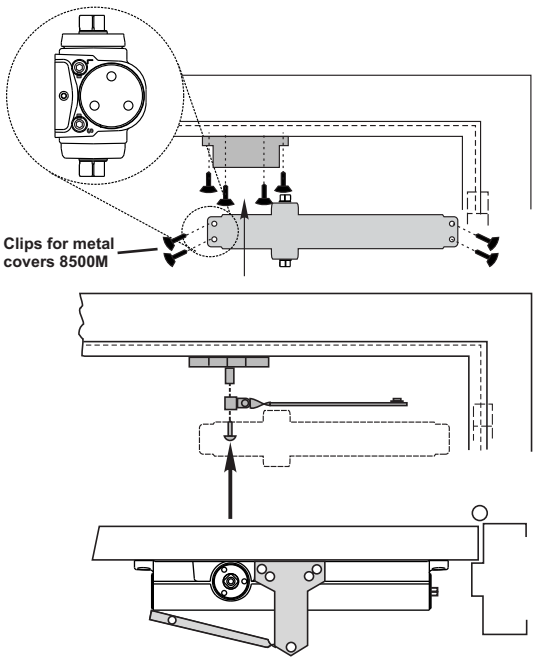
3

Close Valves



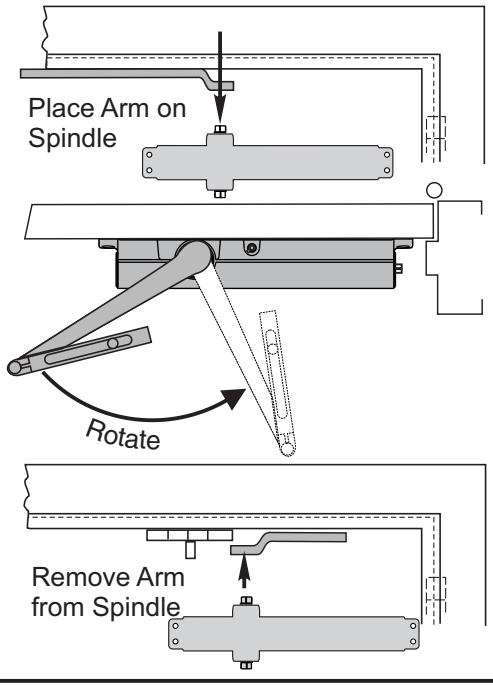
4

Install Closer and Bracket



5

Preload Closer

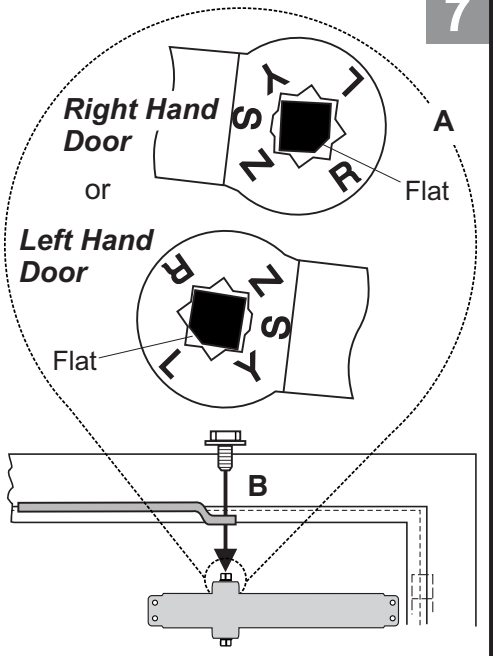


6

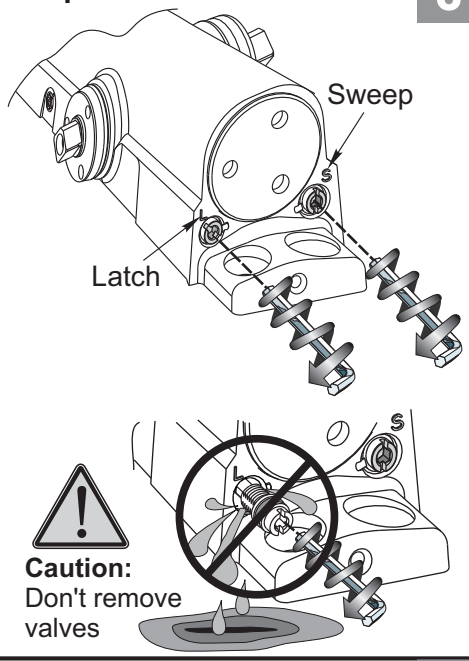
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7

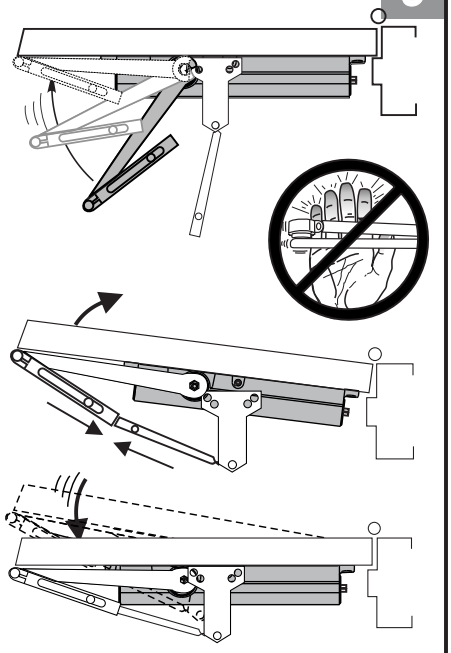


Open Valves 8

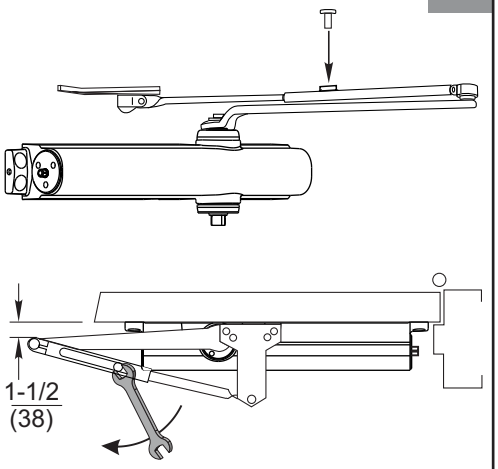


Caution:
Don't remove valves

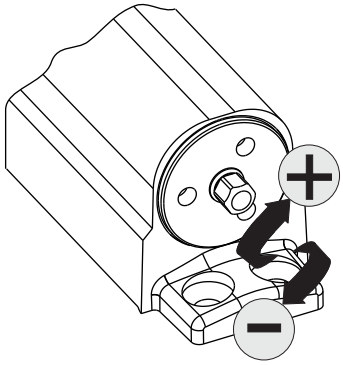
Assemble Arm 9



Arm Screw 10

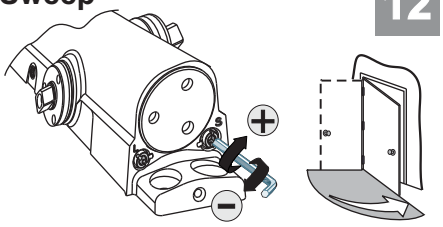


Spring Power Adjust (If necessary) 11

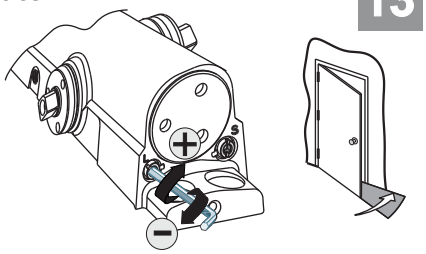


(Use 5/16" socket or adjustable wrench for this Adjustment)

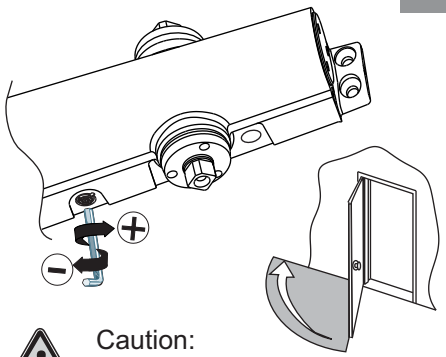
Sweep 12



Latch 13

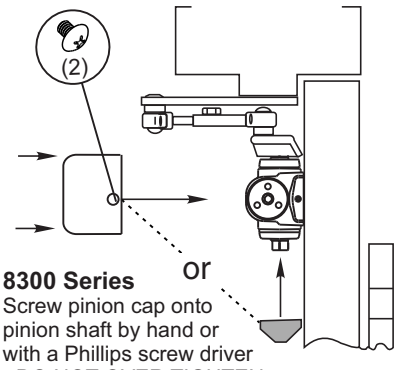


Backcheck 14



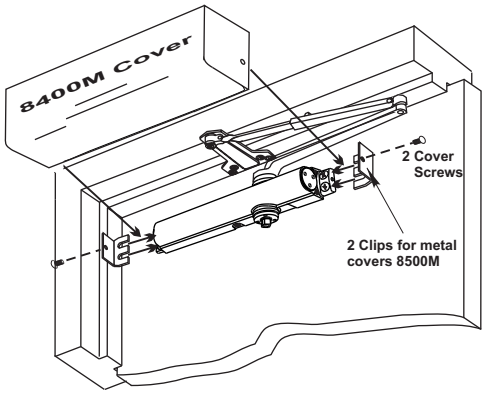
Caution:
Don't completely close valve

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.

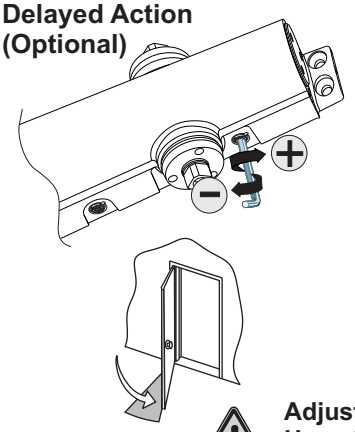
Optional 8500M Metal Cover Installation 15



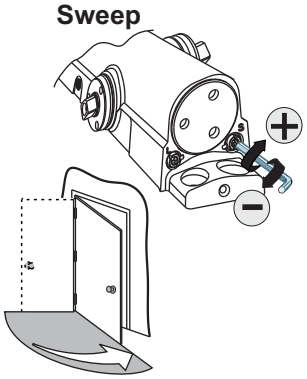
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(Use 1/8" Hex Wrench for these Adjustments)

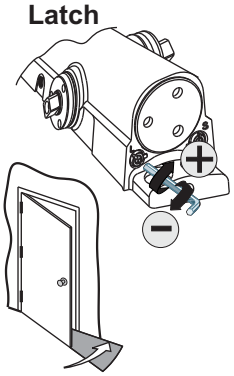
Delayed Action (Optional)



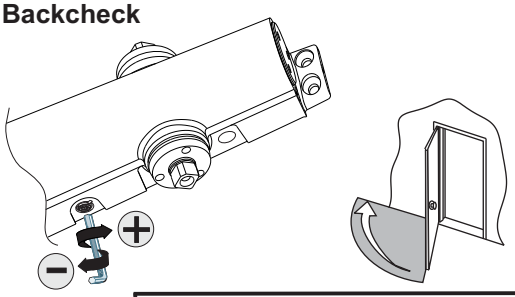
Sweep



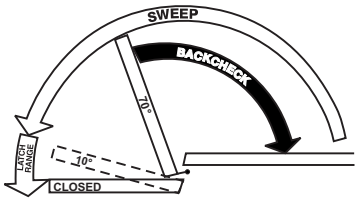
Latch



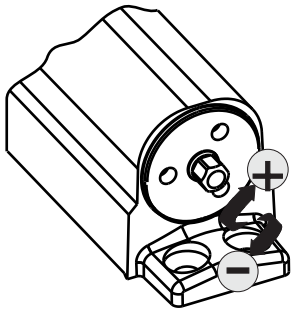
Backcheck



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)

	DOOR	TYPE OF INST.	*	Number of Turns Required: MAXIMUM DOOR SIZE 32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)
8100/8300/8500	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

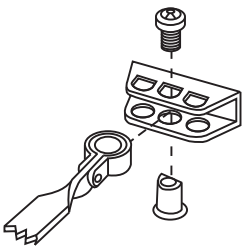
*20 FULL (360°) TURNS MAXIMUM AVAILABLE

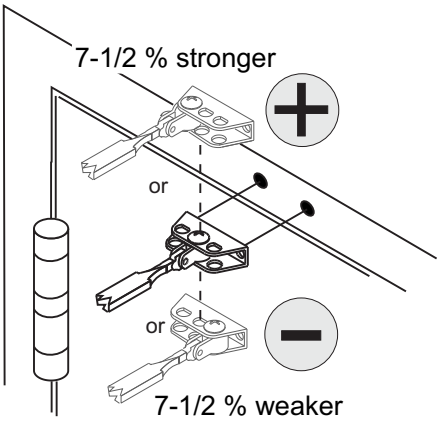
Closer is shipped set at mid range setting = 10 turns

The closing force for series 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 accessability guidelines.

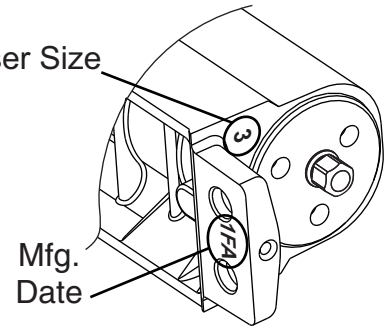
Arm Placement in Shoe





To identify your model:

Blank = 8301/8501
2 = 8302/8502
3 = 8303/8503
4 = 8304/8504
5 = 8305/8505
6 = 8306/8506



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