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Installation Instructions

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.

8000 Series

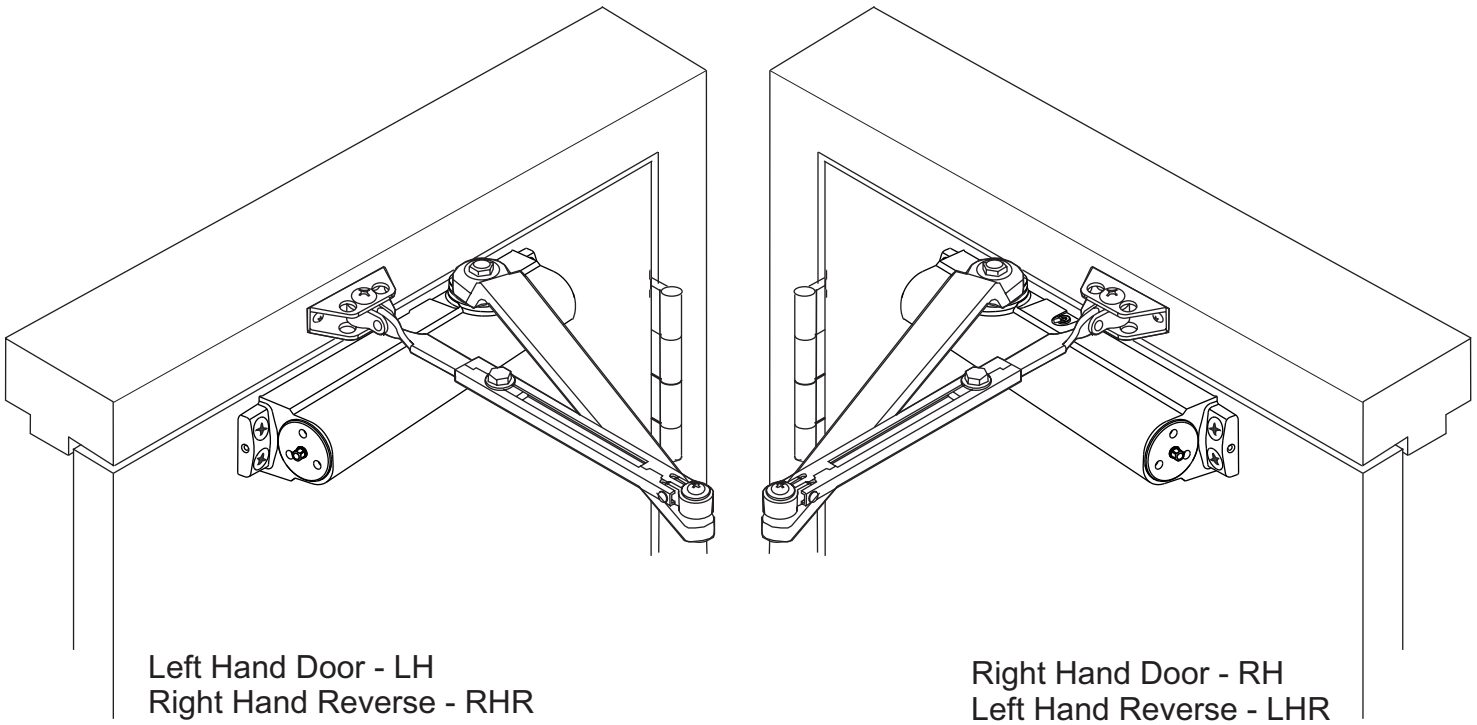
Non Handed Door Closer

Non Hold Open Models

Regular Arm Installation

Adjustable (Sizes 1 thru 6)

S8101
S8301
S8501



Left Hand Door - LH
Right Hand Reverse - RHR

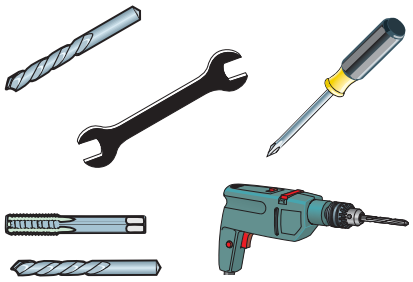
Right Hand Door - RH
Left Hand Reverse - LHR

- "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 valves.
- 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.

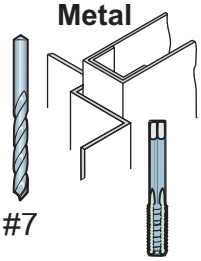
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8000 Series

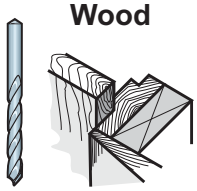
Non Hold Open Door Closers — **Regular Arm**



Metal



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

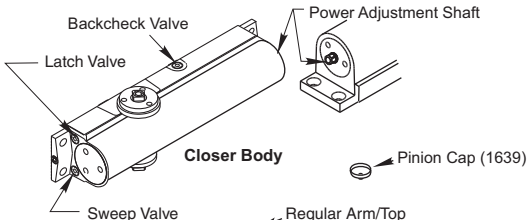


Drill 9/32 thru from Closer Side
3/8 Drill other side

Thru Bolt and Grommet Nut

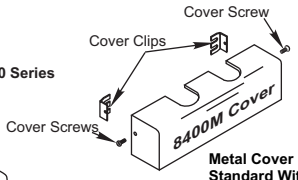


Drill 9/32 thru from Closer Side
3/8 Drill other Side

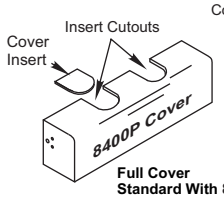




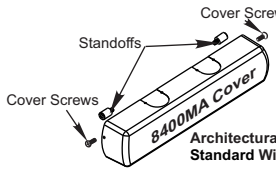
Narrow Cover
Standard With 8300 Series



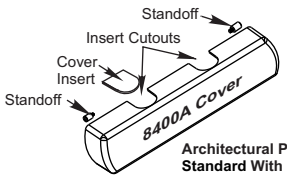
Metal Cover
Standard With
8500M Series



Full Cover
Standard With 8500 Series



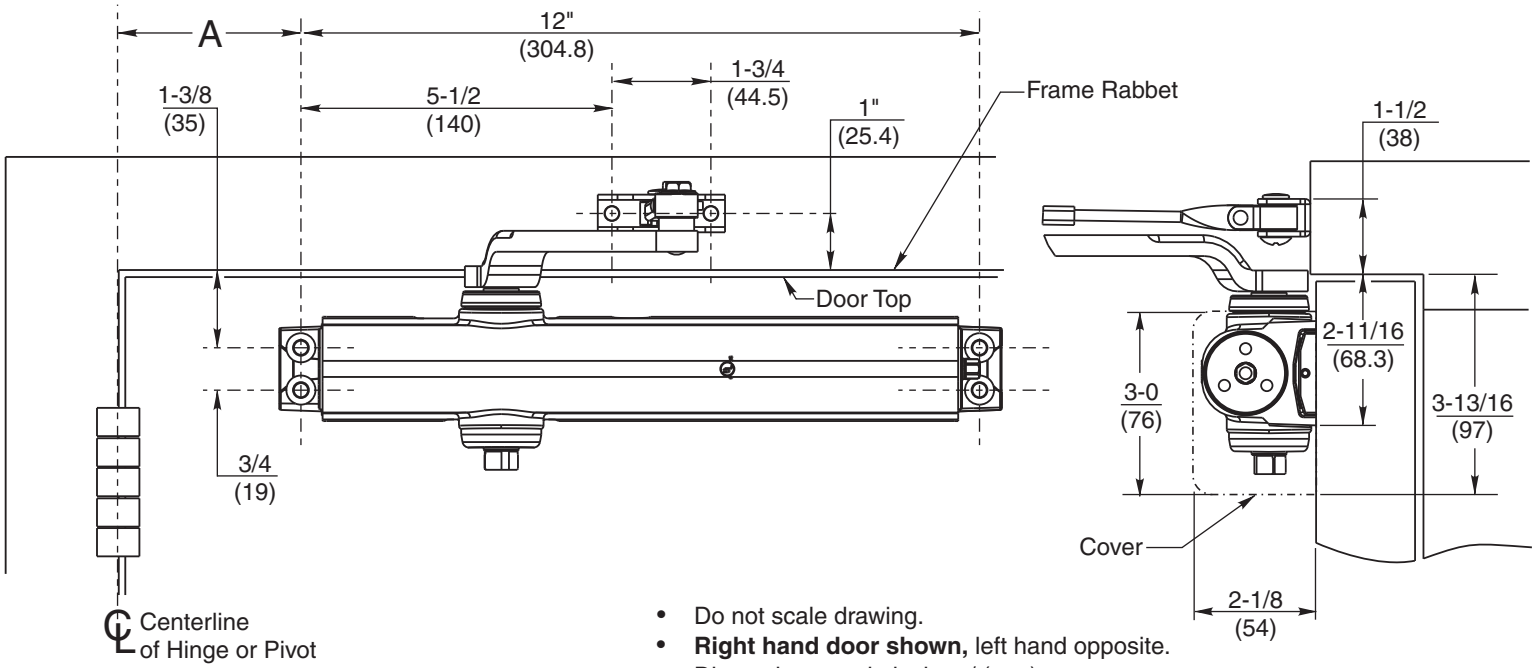
Architectural Metal Cover
Standard With 8500MA Series



Architectural Plastic Cover
Standard With 8500A Series

Mark and Drill Holes

This template for use with standard butt hinges or 3/4 offset pivots.
For all other hardware, please consult factory for template.



℄ Centerline of Hinge or Pivot

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

*Door/Frame/Hardware/Wall conditions permitting.

- Do not scale drawing.
- **Right hand door shown,** left hand opposite.
- Dimensions are in inches / (mm)
- Hollow metal door require channel or box type reinforcement when through bolt mount is specified.
- Sex bolts required for wood or plastic faced fire door mounting.
- Minimum thickness recommended for reinforcements in hollow metal doors and frames: .146" (2.66mm) unless otherwise specified.

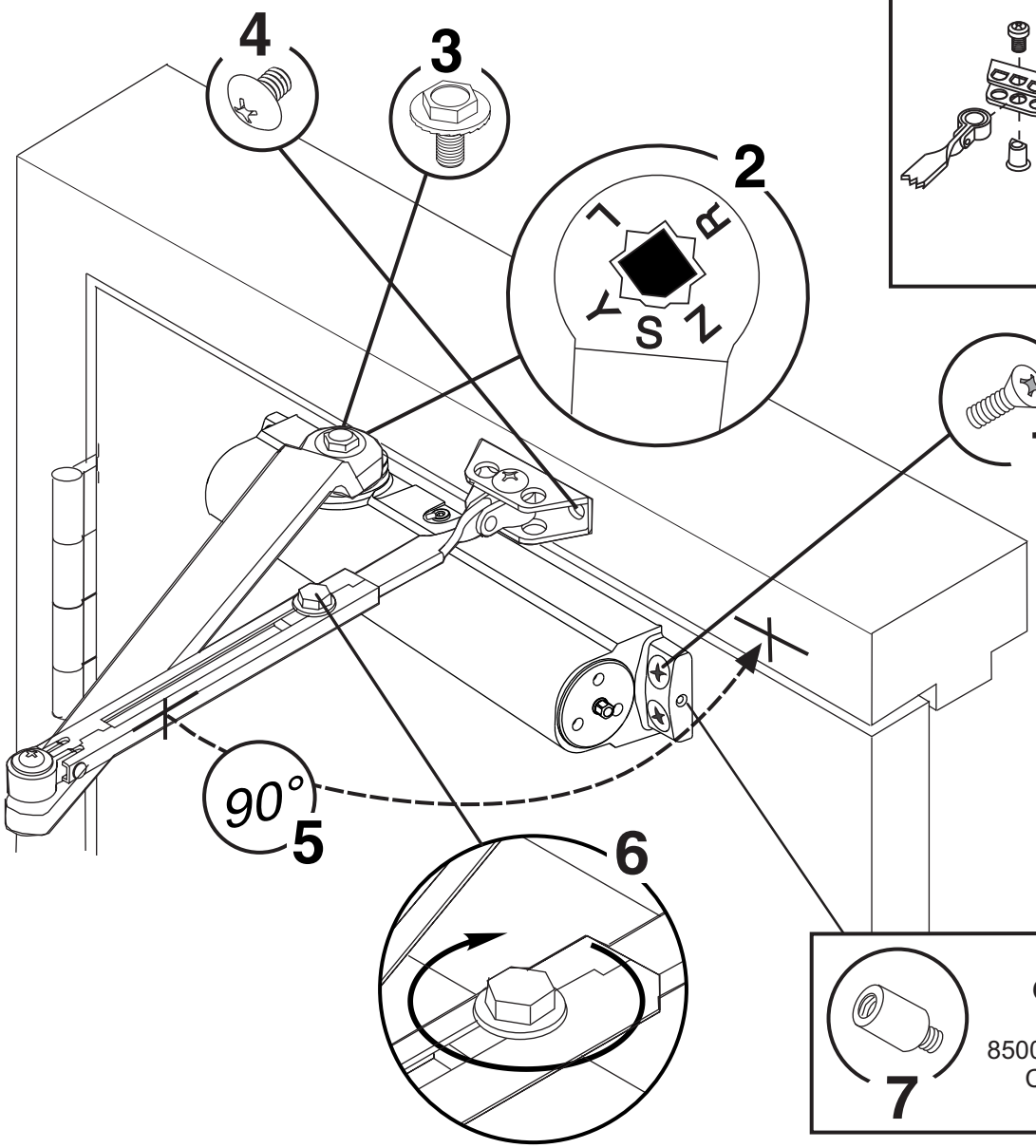
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8000 Series

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

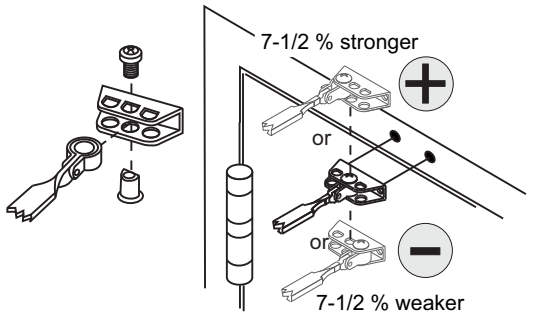
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Installation Sequence

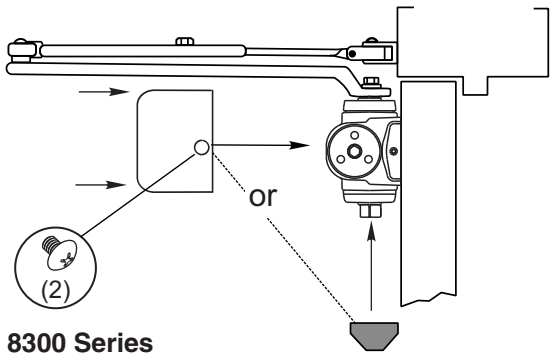


***For Optional 8500M Cover, install clips before securing closer to door.**

Arm Placement in Shoe



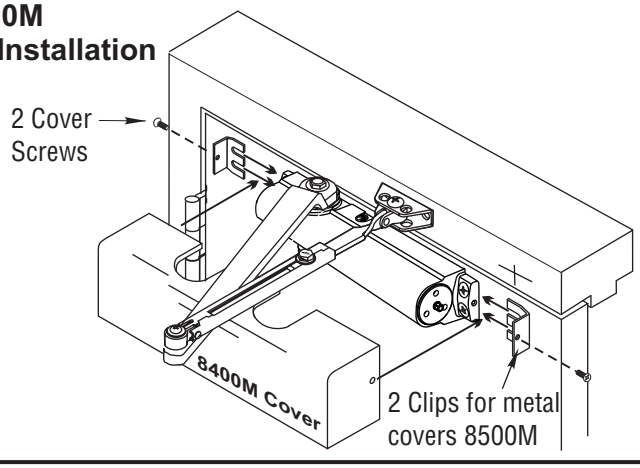
Pinion Cap or Optional Cover



8300 Series

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

*Optional 8500M Metal Cover Installation

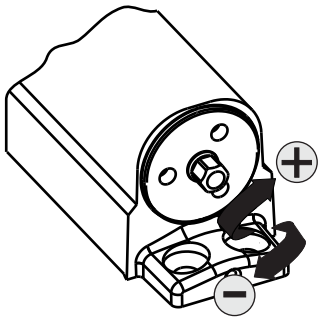


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Spring Power Adjust



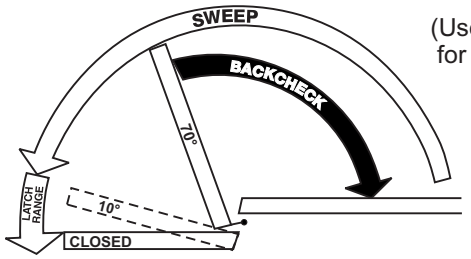
(Use 5/16” Socket or Adjustable Wrench for this Adjustment)

The closing force for series 8101, 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.

Adjustment Chart Regular Arm S8101/S8301/S8501		Number of Turns Required			
		MAXIMUM DOOR SIZE			
DOOR	*	32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)
INTERIOR	FULL 360° TURNS OF 5/16 POWER ADJUSTMENT WRENCH	5	8	11	13
EXTERIOR		7	10	13	16

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

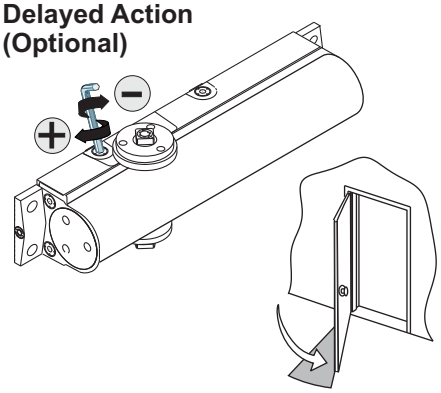
By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessability guidelines.



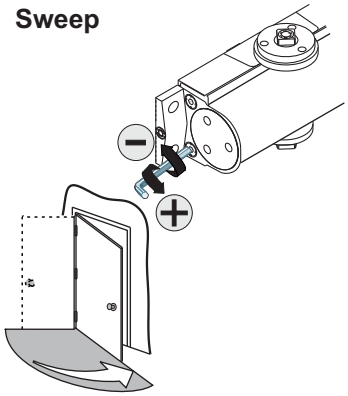
(Use 1/8" Hex Wrench for these Adjustments)

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.

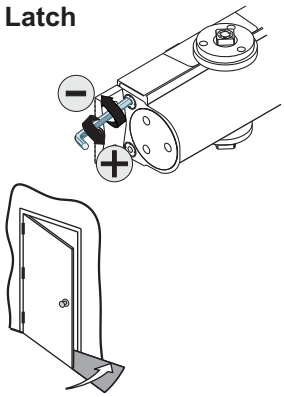
Delayed Action (Optional)



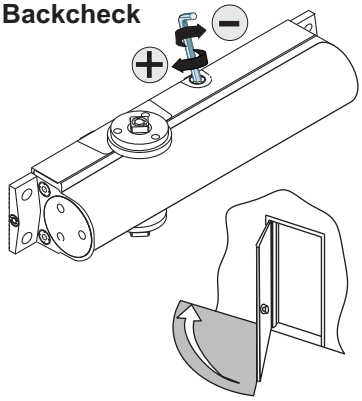
Sweep



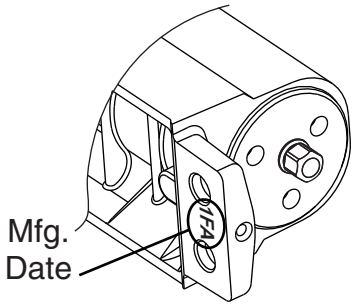
Latch



Backcheck



To Identify Date Code:



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