**7580 Series Door Closer** Non Hold Open Regular, Top Jamb and Parallel Arm Installation Instructions

# Multi Size 1-6

7580 J7580 P7580





CAUTION

An incorrectly installed or improperly

adjusted door closer can cause property damage or personal injury.

misapplication or misadjustment.

These instructions should be followed to avoid the possibility of

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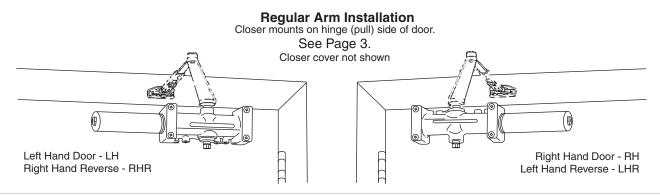
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

- With or without suffix "DA" (Delayed Action) closing.
- With or without suffix "M" with metal Cover.

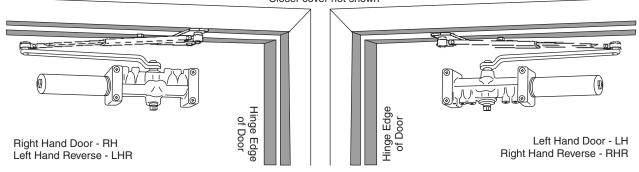
Note:

The closing force for series 7500 door closer is adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When this series of door closer is installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, it may not have adequate closing force to reliably close and latch the door. Power adjustments charted on pages 3,4 and 5 are recommended where possible, to ensure proper door control.

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.



**Top Jamb Installation** Closer mounts on frame face on opposite to hinge (push) side of door. See Page 4. Closer cover not shown (0) 6 Hinge Edge of Door Hinge of Doo Right Hand Door - RH Left Hand Door - LH Ш Left Hand Reverse - LHR **Right Hand Reverse - RHR Parallel Arm Installation** Closer mounts on opposite to hinge (push) side of door. See Page 5. Closer cover not shown



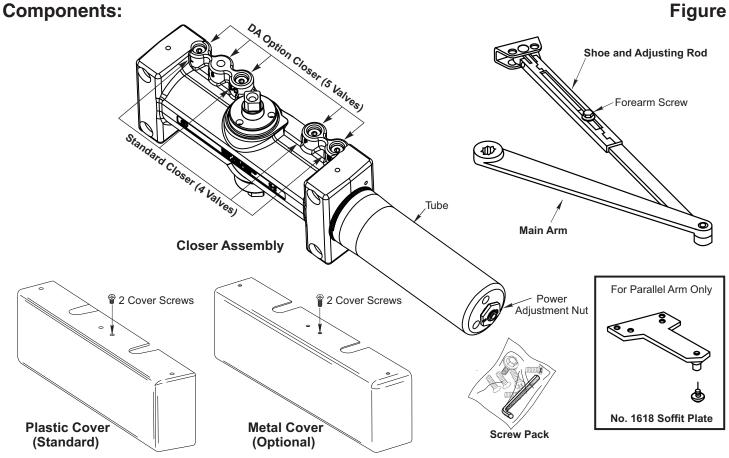
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## 7580 Series

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# Figure 1



• It is recommended that the door, on which the door closer will be installed, be hung on ball bearing hinges. Door must swing freely.

• A separate door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm; or to the door, frame or adjacent walls.

• Door and Frame must be properly reinforced, or use of special fasteners employed, to prevent the mounting screws from pulling out.

• All dimensions are given in inches with corresponding metric dimensions (millimeters) in parentheses.

• Door closer should never be installed on the exterior of a building.

	Preparation	Figure 2	
	Fasteners	Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
		Wood (see Note)	3/16" (4.30 mm)
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5 mm) through
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer

Note: Wood doors/frames. Pilot hole must be drilled when using Self-Drilling Screws.

Always consult door/frame manufacturer for fastener compatibility with the material of their door/frame.

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**Dimension A** 

mm

194

168

117

105

inches

7-5/8

6-5/8



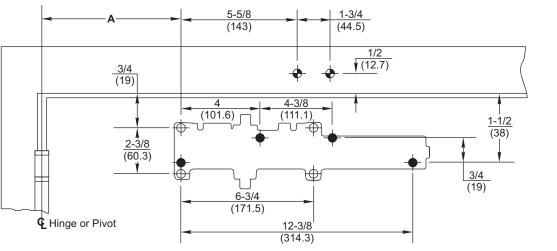
Do Not Scale Drawing

Right Hand Door Shown

7786 Backplate

Mounting Hole Only

Dimensions are in inches (mm).



# 121° to 150° 4-5/8 151° to 180° 4-1/8

Opening

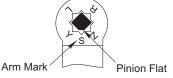
101° to 120°

To 100°

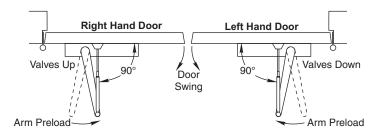
- Installation Sequence

For applications that are different from above, a separate template will be supplied for door and frame preparation.

- Prepare door and frame for fasteners using "Preparation for Fasteners" chart, Figure 2, Page 2.
- Fasten optional 7786 backplate to door, only if it is required for the door conditions.
- Install closer body with tube end away from hinge, with valves: Down for Left Hand door UP for Right Hand door.
- Fasten arm shoe (with adjusting rod) Figure 1, Page 2 to frame face.
- Install main arm onto closer pinion shaft, aligning arm mark "S" with the one flat corner of the square shaft "Pinion Flat", see illustration at right. Secure with hex washerhead main arm screw.



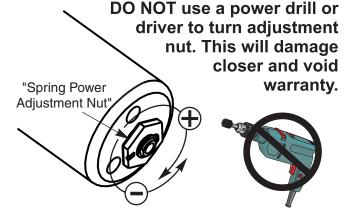
• Remove forearm screw from adjusting rod on frame and open door slightly to slide adjusting rod into slide unit. Close door and rotate arm away from hinge until adjusting rod and slide unit are perpendicular (at a 90° angle) to door. Install and tighten forearm screw.



• Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

Power Adjustment Chart					
Maximum Interior Door Size inches / (mm)	Maximum Exterior Door Size inches / (mm)	Turns from Zero			
32 / (813)	28 / (711)	5			
36 / (914)	34 / (864)	8-1/2			
42 / (1067)	38 / (965)	11			
52 / (1321)	42 / (1067)	13-1/2			
60 / (1524)	48 / (1219)	16-1/2			
NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.					

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded. To increase power, use 11/16" wrench to turn power adjustment nut clockwise. To decrease power, turn nut counter clockwise.



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# 7580 Series (Top Jamb Mount)

7786 Backplate

To 100°

Mounting Hole Only

**Dimension A** 

mm

194

168

117

105

inches

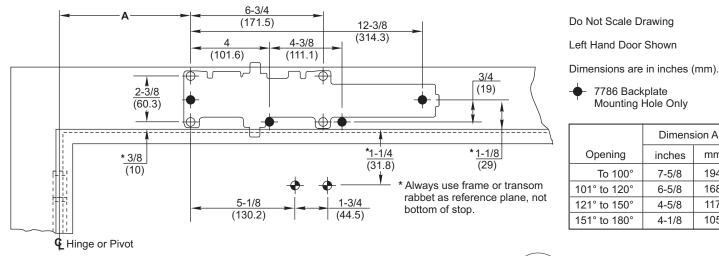
7-5/8

6-5/8

4-5/8

4-1/8

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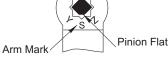


#### Installation Sequence

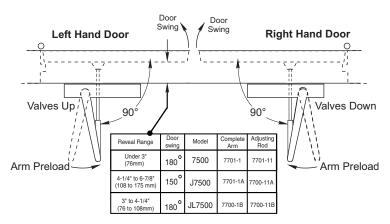
· Select angle of opening and use dimensions shown in template and chart to locate 4 holes  $\oplus$  on frame for closer body (or 4 holes + for optional 7786 backplate) and 2 holes + on door for arm shoe.

For applications that are different from above, a separate template will be supplied for door and frame preparation.

- · Prepare door and frame for fasteners using "Preparation for Fasteners" chart, Figure 2, Page 2.
- · Fasten optional 7786 backplate to frame, only if it is required for the frame conditions.
- Install closer body with tube end away from hinge, with valves: Up for Left Hand door Down for Right Hand door.
- Fasten arm shoe (with adjusting rod) Figure 1, Page 2 to door face. Note that a longer adjusting rod or different arm might be required for your frame conditions, see illustration with "Reveal Range" chart to the right.
- Install main arm onto closer pinion shaft, aligning arm mark "S" with the one flat corner of the square shaft. "Pinion Flat", see illustration at right. Secure with hex washerhead main arm screw.



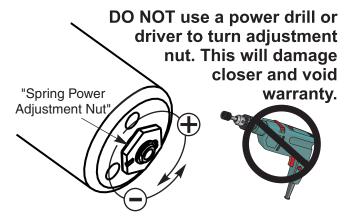
· Remove forearm screw from adjusting rod on door and open door slightly to slide adjusting rod into slide unit. Close door and rotate arm away from hinge until adjusting rod and slide unit are perpendicular (at a 90° angle) to door. Install and tighten forearm screw.



· Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

Power Adjustment Chart					
Maximum Interior Door Size inches / (mm)	Maximum Exterior Door Size inches / (mm)	Turns from Zero			
32 / (813)	28 / (711)	5			
36 / (914)	34 / (864)	8-1/2			
42 / (1067)	38 / (965)	11			
52 / (1321)	42 / (1067)	13-1/2			
60 / (1524)	48 / (1219)	16-1/2			
NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.					

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded. To increase power, use 11/16" wrench to turn power adjustment nut clockwise. To decrease power, turn nut counter clockwise.



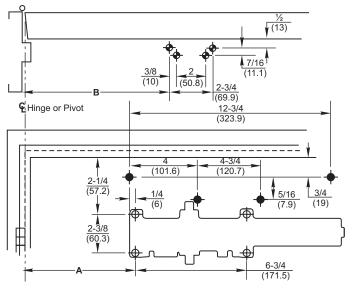
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## 7580 Series (Parallel Arm Mount)



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#### **Installation Sequence**

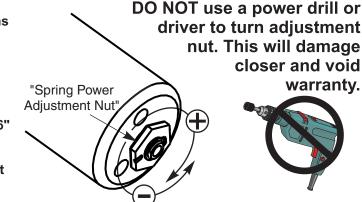
 Select angle of opening and use dimensions shown in template and chart to locate 4 holes - → on door for closer body (or 4 holes → for optional 7788 dropplate) and 4 holes - → on underside of frame for soffit plate.

For applications that are different from above, a separate template will be supplied for door and frame preparation.

- Prepare door and frame for fasteners using "Preparation for Fasteners" chart, Figure 2, Page 2.
- Fasten optional 7788 backplate to door, only if it is required for the door conditions.
- Install closer body with tube end away from hinge, with valves: Down for Left Hand door UP for Right Hand door.
- Fasten soffit plate to frame.
- Install adjusting rod onto soffit plate and secure with screw and washer assembly from screw pack.
- Install main arm onto closer pinion shaft using illustration below. The one flat corner of the square shaft "**Pinion Flat**", must be aligned with the corner mark on arm:

Power Adjustment Chart				
Maximum Interior Door Size inches / (mm)	Maximum Exterior Door Size inches / (mm)	Turns from Zero		
30 / (762)	26 / (660)	7		
34 / (864)	30 / (762)	9		
38 / (965)	36 / (914)	12-1/2		
48 / (1219)	42 / (1067)	14-1/2		
54 / (1372)	48 / (1219)	16-1/2		
NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.				

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded. To increase power, use 11/16" wrench to turn power adjustment nut clockwise. To decrease power, turn nut counter clockwise.



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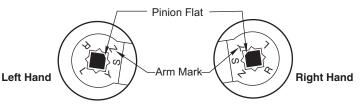
	Dimension A		Dimension B	
Opening	inches	mm	inches	mm
To 100°	8-3/4	222	9-1/4	235
101° to 130°	7-3/4	197	8-1/4	210
131° to 150°	6-3/4	171	7-1/4	184
151° to 180°	5-3/4	146	6-1/4	159

Do Not Scale Drawing Left Hand Door Shown Dimensions are in inches (mm).

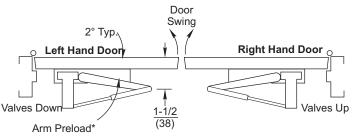
 7788 Dropplate Mounting Hole Only

Arm mark "Y" for Right Hand door Arm mark "Z" for Left Hand door This requires that the pinion shaft be rotated approximately 50 degrees to get correct alignment.

· Secure with hex washerhead main arm screw.



 Remove forearm screw from adjusting rod on frame and open door slightly to slide adjusting rod into slide unit. Close door and pull arm away from door face so elbow is 1-1/2" (38mm) off of door face. Reinstall and tighten forearm screw in rod.



• Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

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## Adjustments

#### Closing Speed Controls (Figure 4A or 4B and 5.)

- Valve "S/D" Controls Sweep Range on Standard closer (or Delayed Range on Delayed Action closer).
- Valve "L" Controls Latch Range.
- Valve "S" Controls Sweep only on Delayed Action closer.

**Closing Power Control** Figure 3 Set closer to desired size. For recommended sizes, refer to the Power Adjustment Chart on pages 3,4,& 5. Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded. To increase power, use 11/16" wrench to turn power adjustment nut clockwise. To decrease power, turn nut counter clockwise. DO NOT use a power drill or driver to turn adjustment nut. This will damage closer and void warranty. **Closing Speed Controls** Figure 4 Standard Delayed Action **Closing Cycle 4B Closing Cycle** Adjust Closing Speed Time to between 3-7 seconds from 90°. Use of door by handicapped, elderly or small children may require greater closing time. Closing Speed Controls Figure 5 "L" (Latch) (Latch) S" (Sweep) "S/D" (Sweep) "S/D" (Delayed Action) Standard Closer **Delayed Action** Closer Slow Do not force valves 1/8' counter-clockwise out All Valves Hey Key of closer body or a fluid leak will occur. Fast

Technical Product Support: Monroe, NC 28112 USA Phone: 877.974.2255 ext: 2 Techsupport.NortonRixson@assaabloy.com NortonRixson.com

#### **Opening Door Control (Figure 6.)**

- Backcheck ("B") valve controls the hydraulic resistance to door opening. NEVER close this valve completely – it is not to provide a positive stop.
- Backcheck position ("P") valve controls the door angle where backcheck cushioning starts. Valve normally closed.

