7500SS Series Door Closer

Non Hold Open Regular, Top Jamb and Parallel Arm Installation Instructions

Multi Size 1-6

7500SS J7500SS JL7500SS P7500SS



ASSA ABLOY



WARNING

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.

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

• With or without suffix "DA" (Delayed Action) closing.

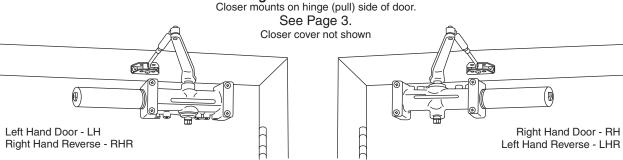
Note:



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.

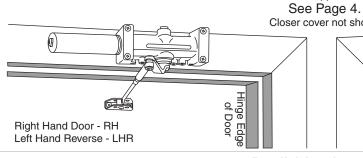
For Special Applications a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

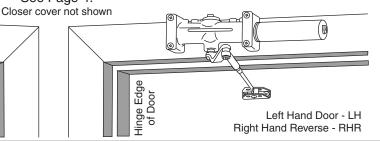
Regular Arm Installation



Top Jamb Installation

Closer mounts on frame face on opposite to hinge (push) side of door.

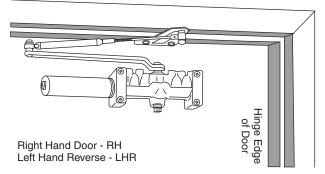


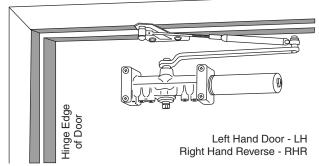


Parallel Arm Installation

Closer mounts on opposite to hinge (push) side of door. See Page 5.

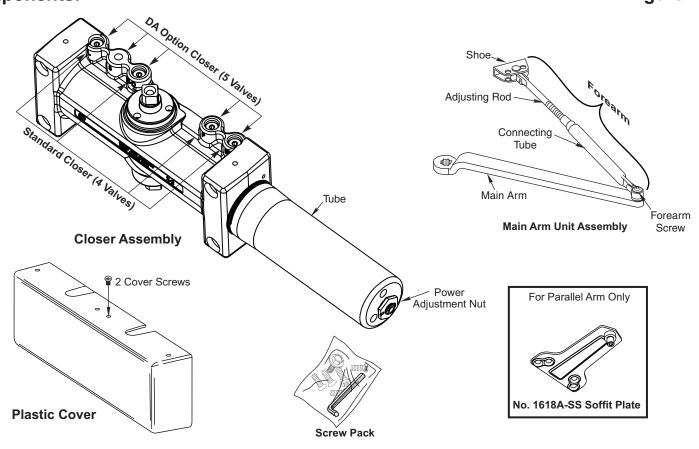
Closer cover not shown







Components: Figure 1



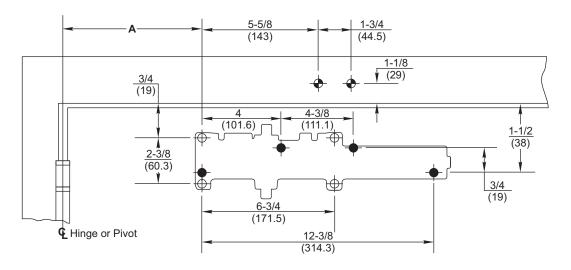
- It is recommended that the door, on which the door closer will be installed, be hung on ball bearing hinges. Door must swing freely.
- A separate door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm; or to the door, frame or adjacent walls.
- · Door and Frame 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 for Fasteners (Figure 2)			
	Fasteners	Door or Frame	Drill-Sizes
Standard	1/4" - 20 machine screw	Aluminum	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
	#14 type "A" S. M. Screw	Wood (see Note)	7/32" (5.56mm)
	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.





Do Not Scale Drawing

Right Hand Door Shown

Dimensions are in inches (mm).

7786SS Backplate
Mounting Hole Only

	Dimension A		
Opening	inches	mm	
To 100°	7-5/8	194	
101° to 120°	6-5/8	168	
121° to 150°	4-5/8	117	
151° to 180°	4-1/8	105	

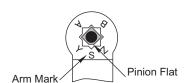
Installation Sequence

 Select angle of opening and use dimensions shown in template and chart to locate 4 holes

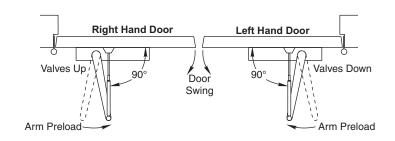
 on door for closer body (or 4 holes
 for optional 7786SS backplate) and 2 holes
 on frame face for arm shoe.

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 7786SS 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.
- Remove forearm screw from elbow joint and disassemble arm, see Figure 1, Page 2. Fasten arm shoe (forearm) 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 head main arm screw and flat washer.



 Close door and adjust forearm length so that the forearm is perpendicular (at a 90° angle) to the door when it is connected to the main arm. Install and tighten forearm screw and washer.



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

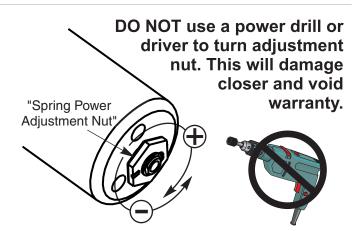
Power Adjustment Chart			
Maximum Interior Door Size inches / (mm)	Maximum Exterior Door Size inches / (mm)	Turns from Zero	
32 / (813)	28 / (711)	5	
36 / (914)	34 / (864)	8-1/2	
42 / (1067)	38 / (965)	11	
52 / (1321)	42 / (1067)	13-1/2	
60 / (1524)	48 / (1219)	16-1/2	

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.

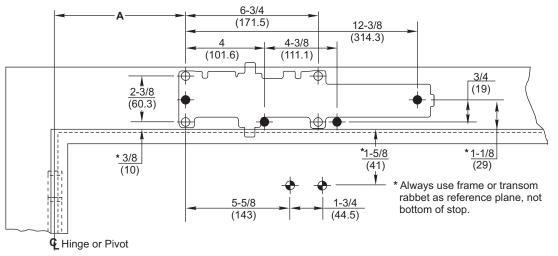


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Do Not Scale Drawing

Left Hand Door Shown

Dimensions are in inches (mm).

7786SS Backplate Mounting Hole Only

	Dimension A	
Opening	inches	mm
To 100°	7-5/8	194
101° to 120°	6-5/8	168
121° to 150°	4-5/8	117
151° to 180°	4-1/8	105

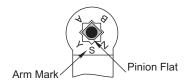
Installation Sequence

 Select angle of opening and use dimensions shown in template and chart to locate 4 holes

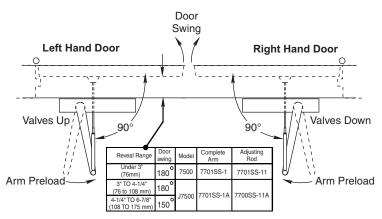
 on frame for closer body (or 4 holes for optional 7786SS backplate) and 2 holes on door for arm shoe.

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 7786SS 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.
- Remove forearm screw from elbow joint and disassemble arm, see Figure 1, Page 2. Fasten arm shoe (forearm) to door.
 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 head main arm screw and flat washer.



 Close door and adjust forearm length so that the forearm is perpendicular (at a 90° angle) to the door when it is connected to the main arm. Install and tighten forearm screw and washer.



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

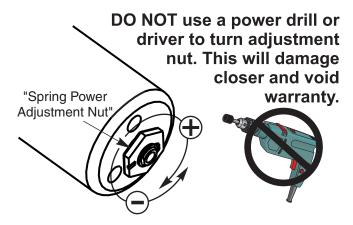
Power Adjustment Chart			
Maximum Interior Door Size inches / (mm)	Maximum Exterior Door Size inches / (mm)	Turns from Zero	
32 / (813)	28 / (711)	5	
36 / (914)	34 / (864)	8-1/2	
42 / (1067)	38 / (965)	11	
52 / (1321)	42 / (1067)	13-1/2	
60 / (1524)	48 / (1219)	16-1/2	
I			

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.

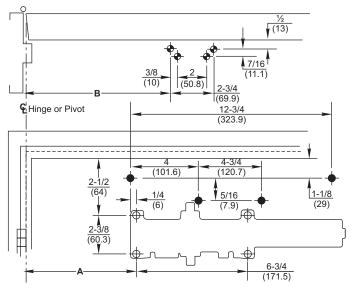
To decrease power, turn nut counter clockwise.



7500SS Series (Parallel Arm Mount)



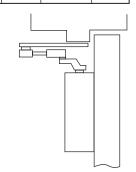
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	Dimension A		Dimension B	
Opening	inches	mm	inches	mm
To 100°	8-3/4	222	9-1/4	235
101° to 130°	7-1/4	184	7-3/4	197
131° to 150°	6-1/4	159	6-3/4	171
151° to 180°	5-1/4	133	5-3/4	146

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

 7788SS Dropplate Mounting Hole Only



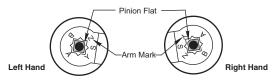
Installation Sequence

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 7788SS dropplate) and 4 holes on underside of frame for soffit plate.

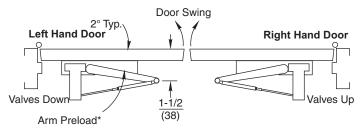
For applications that are different from above, a separate template will be supplied for door and frame preparation.

- Prepare door and frame for fasteners using "Preparation for Fasteners" chart, Figure 2, Page 2.
- Fasten optional 7788SS 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.
- Remove forearm screw from elbow joint, and disassemble shoe unit, see Figure 1, Page 2. Fasten forearm (adjusting rod end) to soffit plate on frame using screw and washer assembly from screw pack.
- Install main arm onto closer pinion shaft following instructions below.
 The one flat corner of the square shaft "Pinion Flat", must be aligned with the corner mark on arm:

Arm mark "Y" for Right Hand door Arm mark "Z" for Left Hand door . Secure with hex head main arm screw and flat washer.



 Close door and pull main arm away from door face so that elbow is 1-1/2" (38mm) off of door face. Adjust Forearm length and reassemble onto main arm. Install and tighten forearm screw and washer.



 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	
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.

DO NOT use a power drill or driver to turn adjustment nut. This will damage closer and void warranty.

"Spring Power Adjustment Nut"

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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.

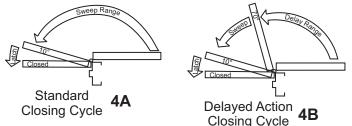
Closing Power Control Figure 3 Set closer to desired size. For recommended sizes, refer to the Power Adjustment Chart on

pages 3,4,& 5.
Install
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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.

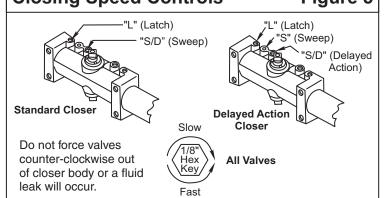
DO NOT use a power drill or driver to turn adjustment nut. This will damage closer and void warranty.

Closing Speed Controls Figure 4



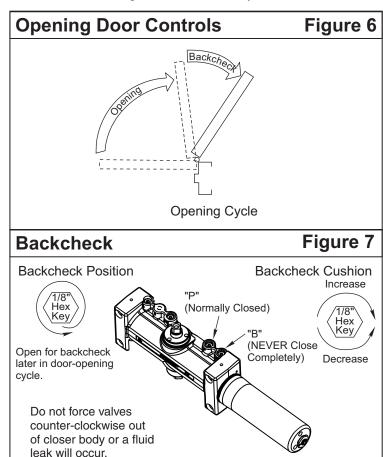
Adjust Closing Speed Time to between 3-7 seconds from 90°. Use of door by handicapped, elderly or small children may require greater closing time.

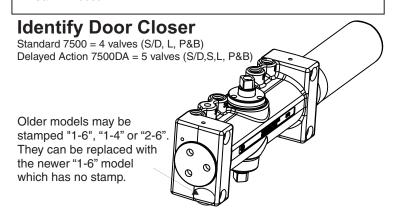
by handicapped, elderly or small children may require greater closing time. Closing Speed Controls Figure 5



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.





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