

3000 Series Door Closer

Models R3301 and R3501

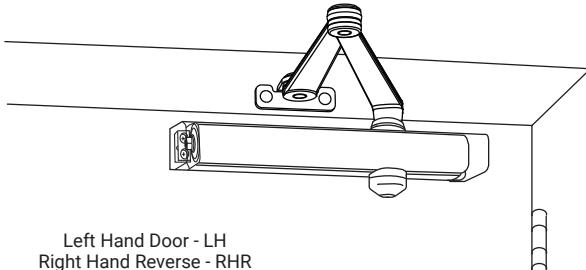
Rigid Regular Arm, Non-Hold Open

Installation Instructions

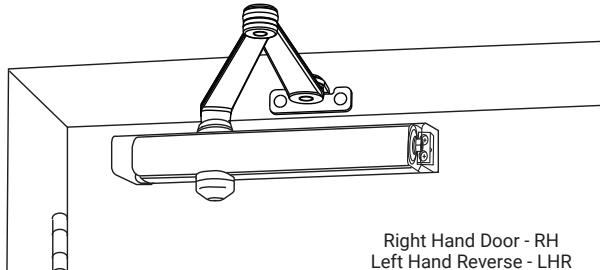
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Pull Side Installation

Closer mounts on hinge (pull) side of door. Models shown with narrow cover installed.



Left Hand Door - LH
Right Hand Reverse - RHR



Right Hand Door - RH
Left Hand Reverse - LHR

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.

Closer Power [†]	Series	
Multi-Size Closer ¹	R3301* (Slim Line Cover)	R3501* (Full Cover)

¹ Series can be adjust from power size 1 thru 6

[†] Size 1 = weakest power, size 6 = strongest.

*With or without "DL" suffix (delayed action).

This series of door closers is not available with a hold open function.

- **MAXIMUM HINGE SIDE FRAME REVEAL IS 1/8" (3mm).**
- All components are non handed.
- 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 parenthesis.
- Door closer cover projects 2-1/8" (54 mm) from door surface.

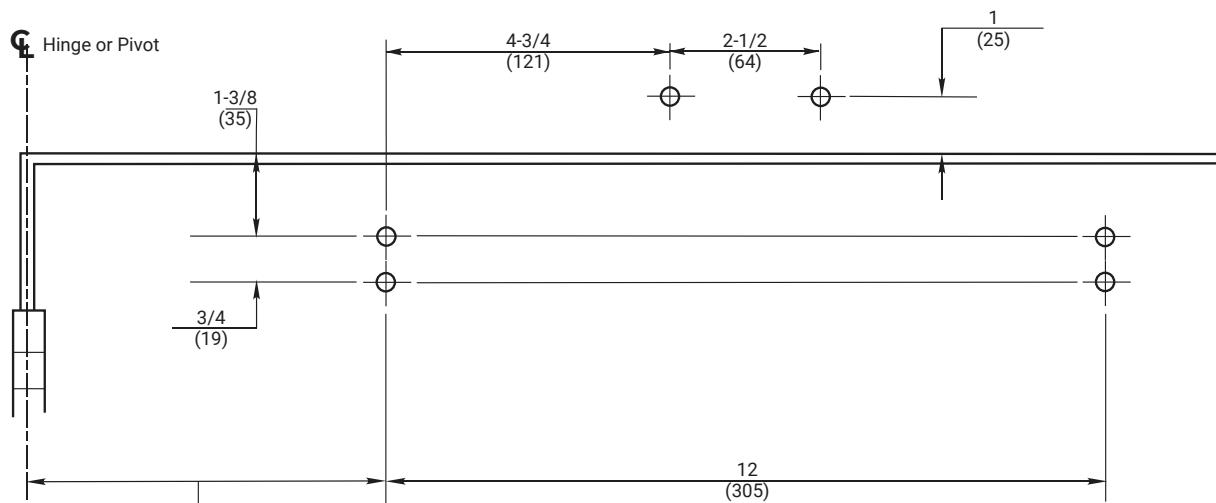
⚠ WARNING

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.

⚠ WARNING

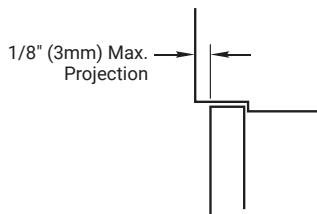
Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

Pull Side Installation



Opening	inches	mm
to 100°	7-1/2	191
100° to 130°	6	152
*over 130°	4-1/2	114

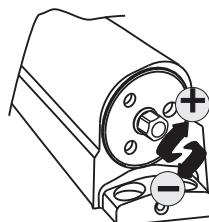
*Door will swing 180°, conditions permitting.



NOTES:

- Right hand door is shown.
- Do not scale drawing.
- Dimensions are given in Inches/(mm)
- Same dimensions apply for Left Hand Door measured from centerline of pivot point.

Preparation for Fasteners		
Fasteners	Door or Frame	Drill-Sizes
Self-Drilling Screw	Aluminum or Metal	3/16" (4.30mm)
	Wood	3/16" (4.30mm)
1/4"-20 Machine Screw	Metal	#7 (0.201" dia) or 5 (10mm) Tap: 1/4"-20
Sleeve nuts and bolts (optional)	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
	Aluminum or Wood	3/8" (9.5mm) through
Through-bolts and grommet-nuts (optional)	All	9/32" (7mm); 3/8" (9.5mm) dia. x 3.8" (9.5mm) deep on door face opposite of closer



Power Adjust

Use 5/16" Socket or Adjustable Wrench for this adjustment.

Power Adjustment Chart

DOOR	Number of Turns Required			
	MAXIMUM DOOR SIZE			
	32" (81cm)	36" (91cm)	42" (107cm)	48" (122cm)
Interior Door	0	2	5	8
Exterior Door	2	5	8	11

NOTES:

- Maximum of 20 turns (360°) of Power Adjust Shaft.
- Closer is shipped set at 10 turns.
- The closing force is adjustable from size 1 to 6. When adjusted to conform to ADA requirements (5 lbs max.) for interior doors, closer may not have adequate force to reliably close and latch the door.

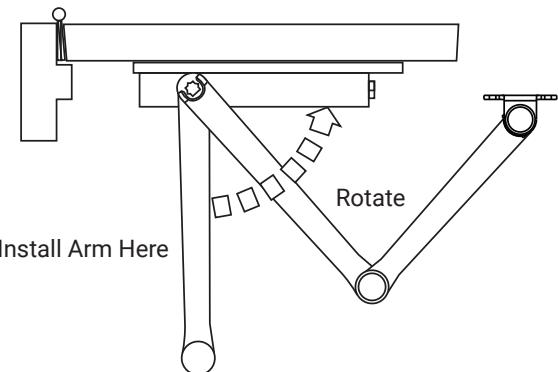
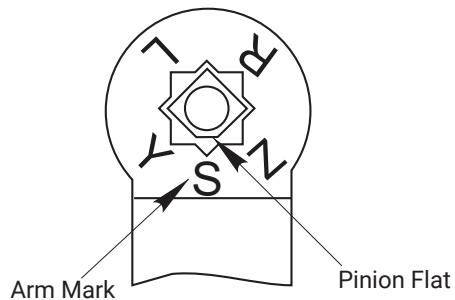
Models R3301 and R3501

Rigid Regular Arm, Non-Hold Open

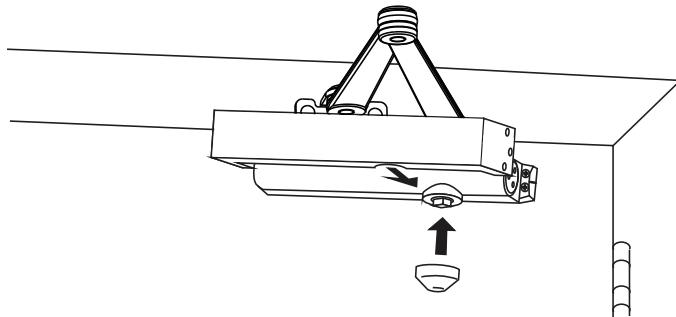
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Installation Instruction

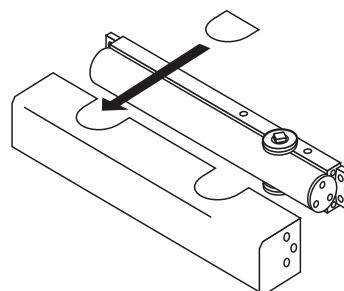
1. Select angle of opening and use dimensions shown to locate four (4) holes on door for closer body and 2 holes on frame face for arm shoe.
2. Prepare door and frame for fasteners. See "Preparation for Fasteners" on page 2.
3. Set closing power for door size using chart on page 2.
4. Mount closer body on door. Be sure that power adjustment shaft is away from hinge.
5. Place main arm on shaft, aligning 'S' mark on arm with pinion flat on pinion shaft (see illustration at right). Push down into position. Secure with 1/4-20 x 1/2 (13) 7/16" hex washer head screw.
6. With door closed, rotate main arm away from hinge and align shoe with mounting holes in frame. Fasten arm shoe to frame with round head screws provided.
CAUTION: Closer arm is under spring tension and may be difficult to rotate.
7. Make closer adjustments (see page 4) before installing cover.
CAUTION: Do not back valves out of closer or a leak will result.
8. Install cover.
 - **R3301 Only:** Fasten cover to closer with 2 #6-32 x 5/16 FHMS screws. Screw Pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN
 - **R3501 Only:** Place insert into notch in cover that will not be used. Fasten cover to closer with 2 #6-32 x 5/16" FHMS screws at each end of closer.



R3301



R3501



Closer Adjustments

Closing Power Adjustment –

Using the "Power Adjustment Chart" on page 2, select the correct number of turns for power adjustment shaft that corresponds with the installation. With 5/16" socket or adjustable wrench, rotate adjustment full 360° clockwise turns to desired setting. After closer has been installed and proper adjustments made to the sweep and latch, it may be necessary to readjust spring power for good closing action.

Control Valve Adjustments (see Figure 2)

Closing Speed Controls (Figure 1A or 1B and 2)

- Valve "S" Controls Sweep Range
- Valve "L" Controls Latch Range
- Valve "D" Controls Delay Range
For optional Delayed Action models

Opening Cycle

- "Backcheck" valve controls the strength of cushioning in Backcheck Range. NEVER close this valve completely – it is not to provide a positive stop. (see Figure 4 and Figure 5)

Figure 1 - Closing Speed Controls

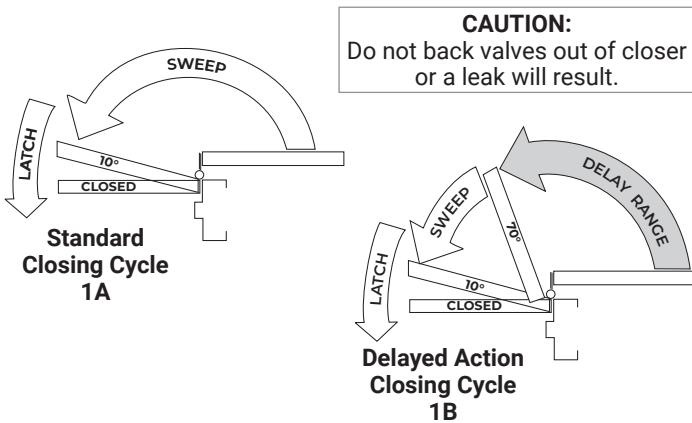


Figure 2 - Closing Speed Controls

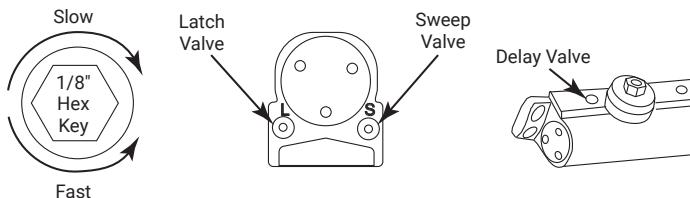


Figure 3 - Closing Power Control

See Power Adjust chart on page 2

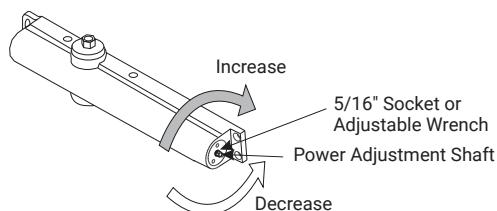


Figure 4 - Opening Door Control

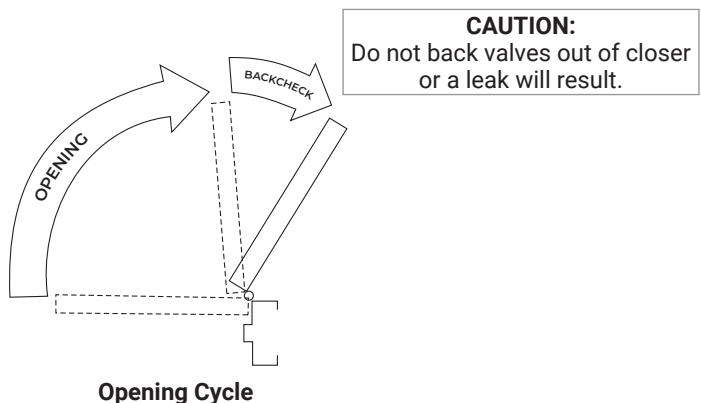
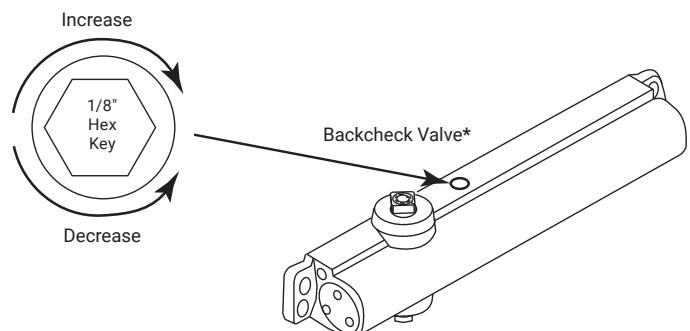


Figure 5 - Backcheck Control



*Never close this valve completely.