

3000 Series Door Closer

Models PR3301, PR3311, PR3501, PR3511, 3321(T), 3521(T)

Parallel Rigid or Holder/Stop Arm, Non-Hold Open or Hold Open

Installation Instructions

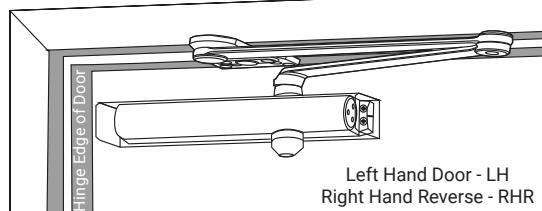
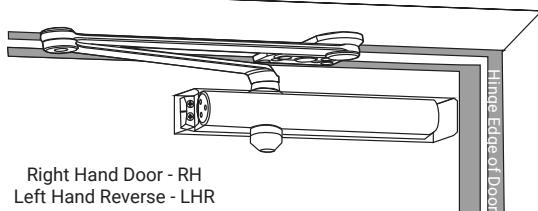
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Standard Frame Installation

Closer mounts on opposite to hinge (push) side of door. PR3301 Parallel Rigid Non-Hold Open arm illustrated. Slim Line Cover shown.

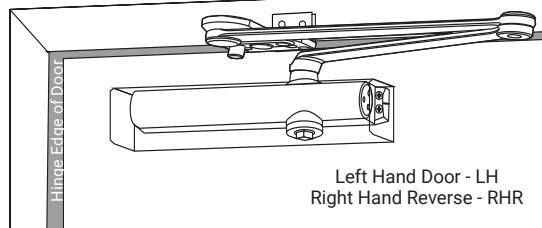
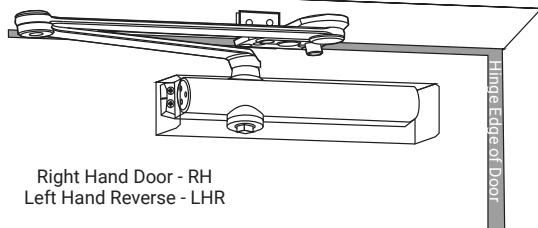
Refer to pages 3 and 4



Narrow Frame Installation

Closer mounts on opposite to hinge (push) side of door. 3521 Holder/Stop arm illustrated. Full Cover shown. 890 and 891 accessories required for this application (supplied separately).

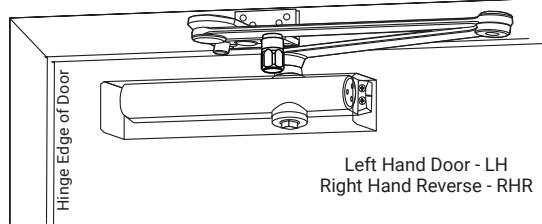
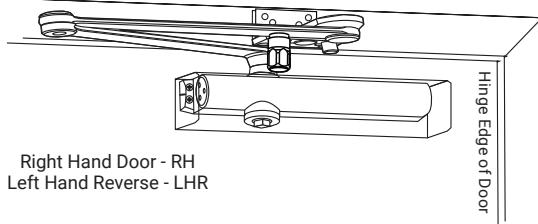
Refer to pages 3 and 4



Flush Partition Installation

Closer mounts on opposite to hinge (push) side of door. 3521T Holder/Stop arm with Thumbrturn Hold Open illustrated. Full Cover shown. 293L accessory required for this application (supplied separately).

Refer to pages 3 and 4



NOTES:

- For special applications, a separate door and frame preparation template is included with these instructions. In those cases, use this instruction sheet for installation sequence and closer adjustments only.
- "T" indicates Thumbrturn actuated Hold Open, units are handed.

⚠ 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.

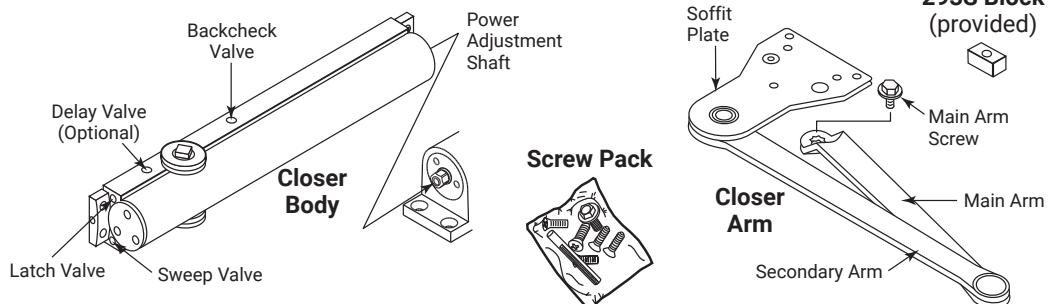
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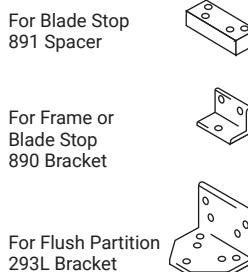
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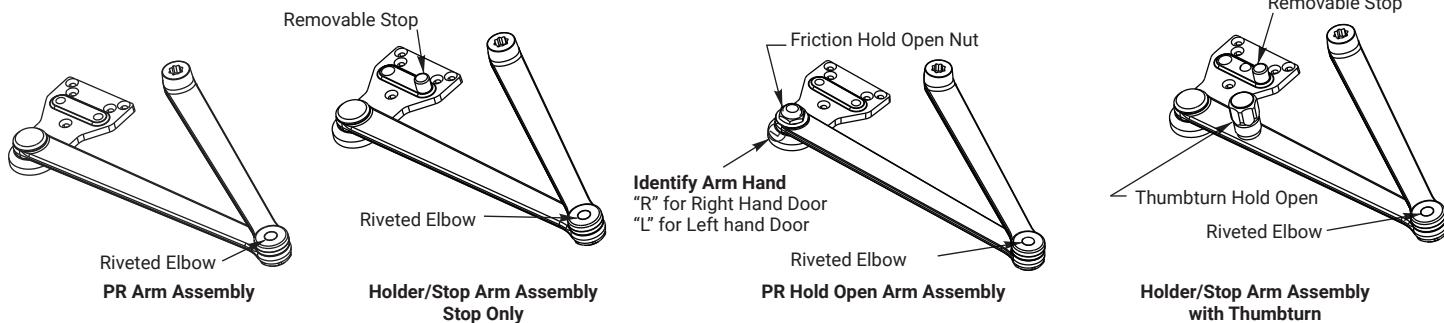
Components



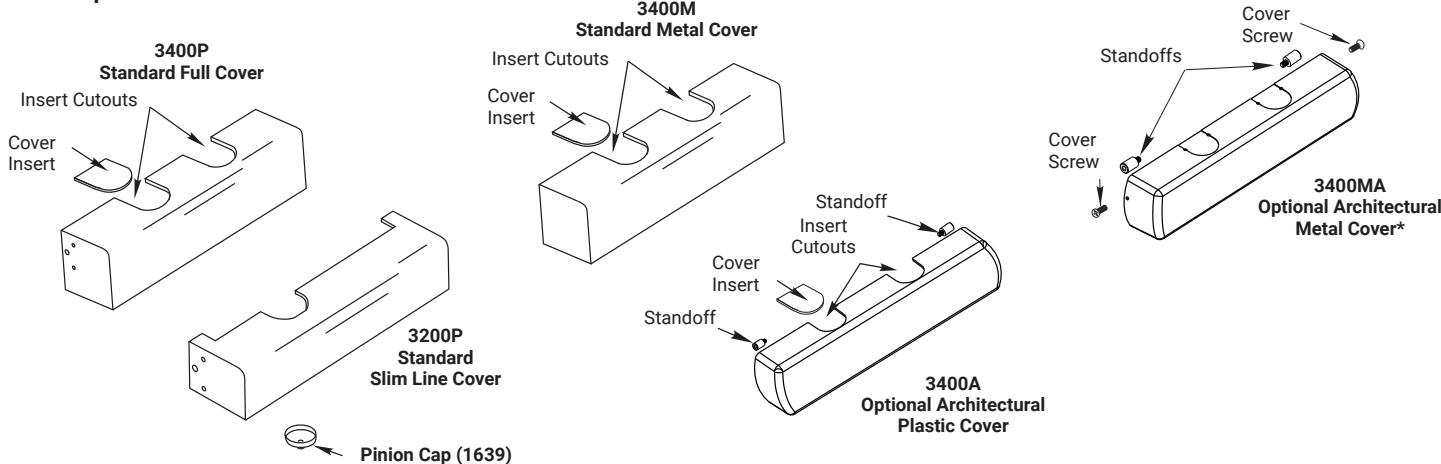
Optional Accessories



Arm Options



Cover Options



Preparation for Fasteners

Fasteners		Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
		Wood (see Note)	3/16" (4.30mm) (pilot hole required)
	1/4"-20 Machine Screw	Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20
Optional	Sleeve nuts and bolts	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	All	9/32" (7mm); 3/8" (9.5mm) dia. x 3.8" (9.5mm) deep on door face opposite of closer

NOTE: Pilot hole required when using self-drilling screws for wood door/frame applications.

Installation Sequence

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

1. Select angle of opening and use dimensions (shown on page 4) and Dimension Chart below to locate 4 holes on stop side of door for closer body (or 3148 or 3158 drop plate, only if required, see page 5) and 5 holes on stop and/or rabbet for Soffit Plate. For applications not covered in these instructions, a separate template will be required.
2. Prepare door and frame for fasteners. See "Preparation for Fasteners" on page 2.
3. Set approximate closer power for door size using Power Adjustment Chart below. Use 1/8" hex wrench supplied to adjust Power Adjustment Shaft (set at 8 turns from factory). 20 turns maximum. Turn nut **CLOCKWISE** to **Increase**, **COUNTERCLOCKWISE** to **Decrease** power. See Page 6 for the illustration of this step.
4. If required, mount 3148 or 3158 Drop Plate. (see page 5).
5. Install closer with **power adjustment shaft toward hinge edge of door**.

NOTE: If using full metal cover, cover mounting clips must be slipped under ends of closer when closer is being mounted. Clips should project 1/4" (6mm) beyond each end of closer.

6. With the door closed, close valves 'S' and 'L'. Using a wrench, turn the pinion shaft 50° or more to permit proper alignment of **arm mark** with **pinion flat** -
 'L' for Left hand door.
 'R' for Right hand door.
7. See Arm Mounting Detail and Main Arm Installation at right below.

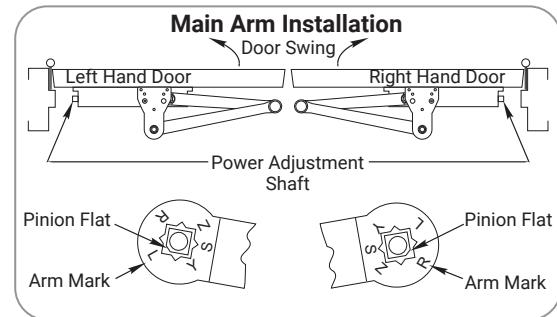
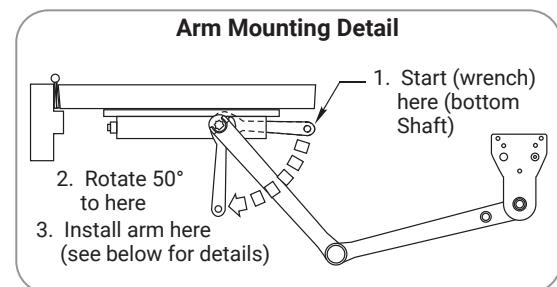
CAUTION: Closer arm is under spring tension and may be difficult to rotate.

8. Reopen valves 'S' and 'L' by turning counter clockwise.

CAUTION: DO NOT back valves out of closer or a leak will result.

9. With door closed, align soffit plate with mounting holes in frame. Fasten soffit plate to frame with flat head screws provided. *Use spacer blocks 293S or 891, if required.*
10. Make closer adjustments (see page 6) before installing cover
11. Install cover (see page 6).

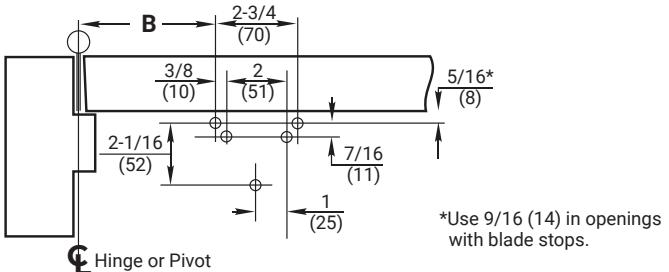
Installation Dimensions Chart									
	Dim	85°-90°	90°-95°	95°-100°	100°-105°	105°-110°	110°-115°	115°-120°	120°-180°
PR3301/PR3501	A in. (mm)	3-3/4 (95)					1-1/4 (32)		
	B in. (mm)	9-1/2 (241)					7 (178)		
3321/3521	A in. (mm)	5-1/2 (140)	4-3/4 (121)	4 (102)	3-3/8 (86)	2-3/4 (70)	2-1/8 (54)		
	B in. (mm)	11 (279)	10-1/4 (260)	9-1/2 (241)	8-7/8 (225)	8-1/4 (210)	7-5/8 (194)		
	A in. (mm)	5-3/8 (137)	4-5/8 (117)	3-7/8 (98)	3-1/4 (83)	2-5/8 (67)	2 (51)		
	B in. (mm)	10-7/8 (276)	10-1/8 (257)	9-3/8 (238)	8-3/4 (222)	8-1/8 (206)	7-1/2 (191)		



Power Adjustment Chart					
	Full Clockwise Turns of Closer Power Adjustment Shaft				
	Door	28"-32" (71-81cm)	33"-36" (84-91cm)	37"-42" (94-107cm)	43"-48" (109-122cm)
PR3301/PR3501	Interior	7	10	13	16
	External	9	12	15	18
3321/3521	Interior	9	11	13	15
	External	10	12	14	16

NOTE: Maximum of twenty (20) turns (360°) of Power Adjustment Shaft. Closer is shipped set at mid power setting.

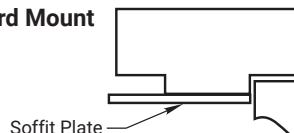
Standard Frame



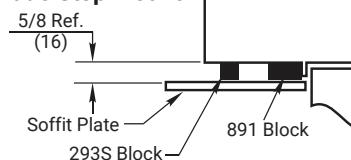
NOTES:

- Do Not Scale Drawing.
- Left Hand Door Shown.
- Same dimensions apply for Right Hand.
- Door measured from centerline of pivot point.
- Dimensions are in inches (mm).
- See page 3 for A & B dimension values.

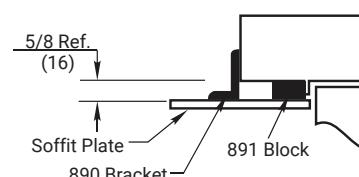
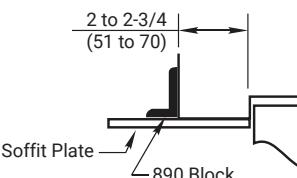
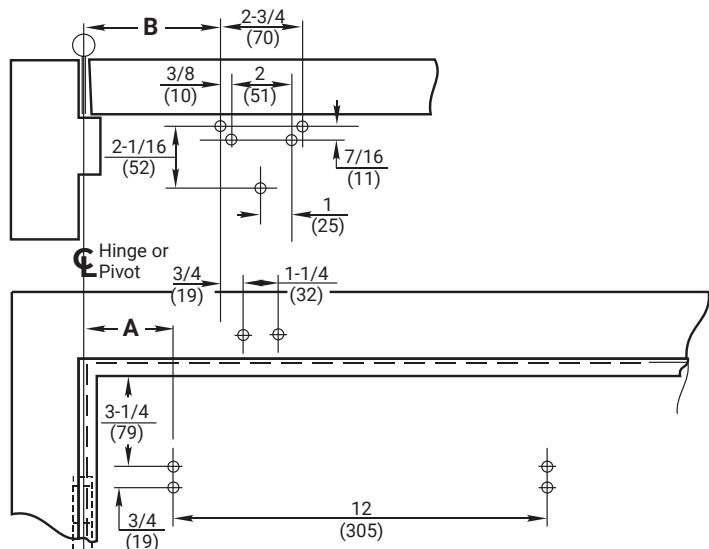
Standard Mount



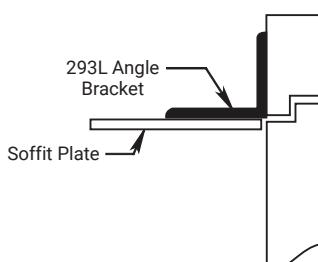
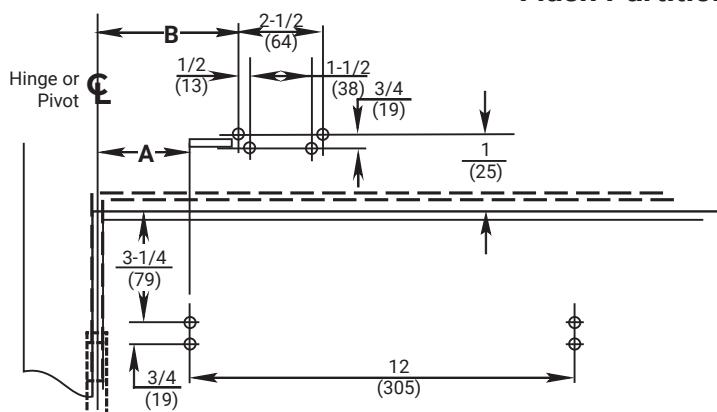
Blade Stop Mount



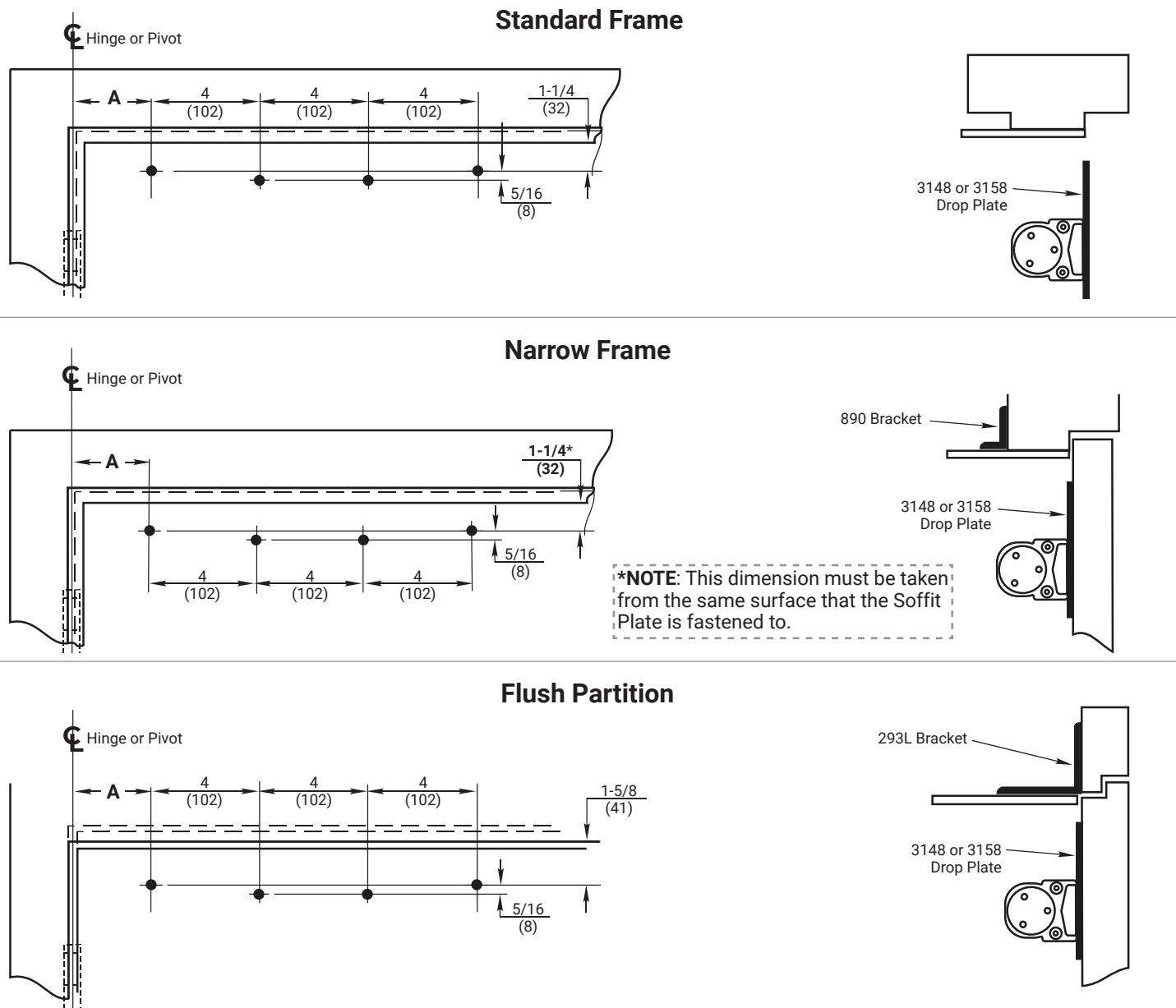
Narrow Frame



Flush Partition



3148 or 3158 Drop Plate Mounting Holes

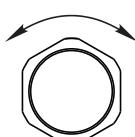


Thumbturn Hold Open Feature (Holder/Stop only)

The Thumbturn Hold Open feature is controlled by the knob located on the arm of the unit. Turning this knob clockwise will engage the Hold Open mechanism and increase the Hold Open force. Turning this knob counterclockwise will reduce the Hold Open force and disengage the Hold Open mechanism.

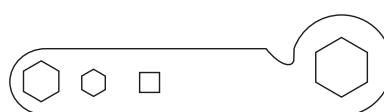
Thumbturn Action
(Units suffixed "T")

DECREASE -- INCREASE



Friction Hold-Open Feature (Parallel Rigid only)

Hold door open to opening angle desired and tighten holder-adjustment-nut (wrench supplied) or use 1" Box or Open End wrench.



Adjustments

Closing Power Adjustment (3X01 closers only) –

Using "Power Adjustment Chart" from Page 3, select the correct number of turns for power adjustment shaft that corresponds with the installation. With 1/8" hex-key provided, rotate adjustment shaft 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 (optional)

Figure 1 - Closing Speed Controls

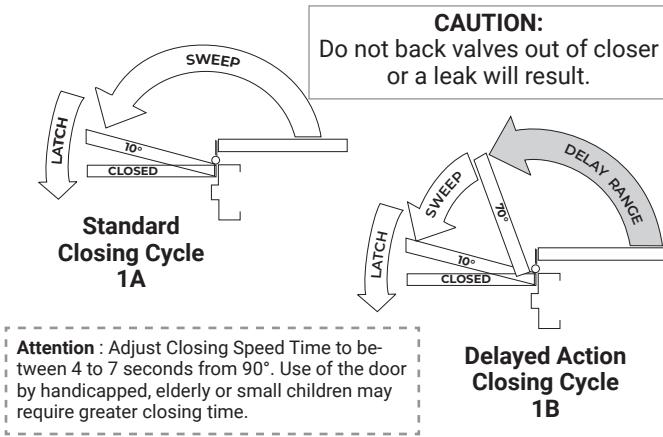


Figure 2 - Closing Speed Controls

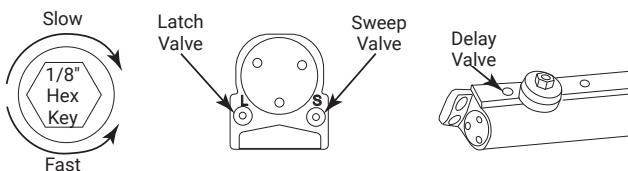
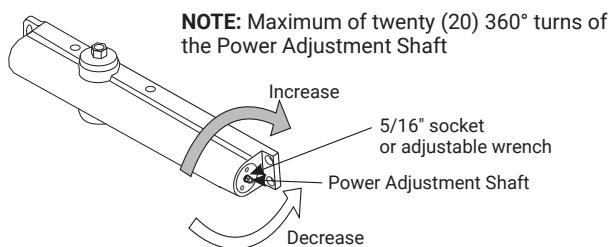


Figure 3 - Closing Power Controls



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. (Figure 4 and Figure 5)

Cover (See Figure 6)

Full cover: Slide cover insert into the unused cutout in cover. Install cover using screws provided.

Slim Line cover: Install cover using screws provided. Install pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

Metal cover: Fasten cover to mounting clips with screws provided.

Architectural Metal Cover: Remove cover insert where pinion is located. Install standoffs in ends of closer. Install cover using screws provided.

Architectural Plastic Cover: Slide cover insert into the unused cutout in cover. Install standoffs in ends of closer. Snap cover over standoffs.

Figure 4 - Opening Door Control

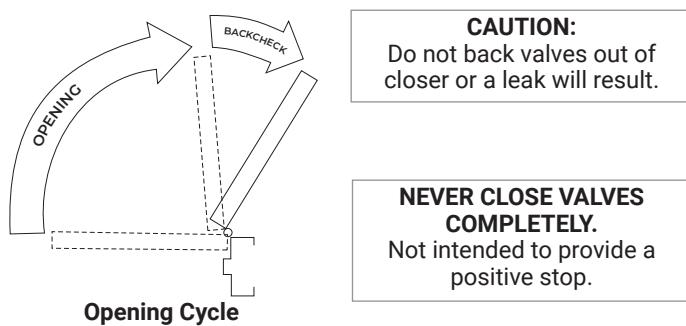


Figure 5 - Backcheck Control

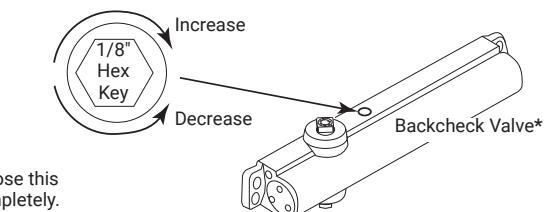


Figure 6 - Cover Mounting

