



Installation Instructions

CloserPlus Ramp™ Door Closers (CLP-R)



TRADEMARK
HARDWARE

ASSA ABLOY

Additional Closer Options:

- "DA" indicates Delayed Action closing
- "R" indicates Ramp Hold-Open function, not handed

Optional Accessories:

- 8148 Drop Plate
- 2019L, 6890, 6891 Soffit Plate Accessories

CAUTION

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.

CAUTION

Model Numbers Included:

Series Function Sizing

CloserPlus Ramp™ Hold Open Arm Units

CLP8101R	HO	1-6
CLP8301R	HO	1-6
CLP8501R	HO	1-6
CLP810XR	HO	2 THRU 6
CLP830XR	HO	2 THRU 6
CLP850XR	HO	2 THRU 6

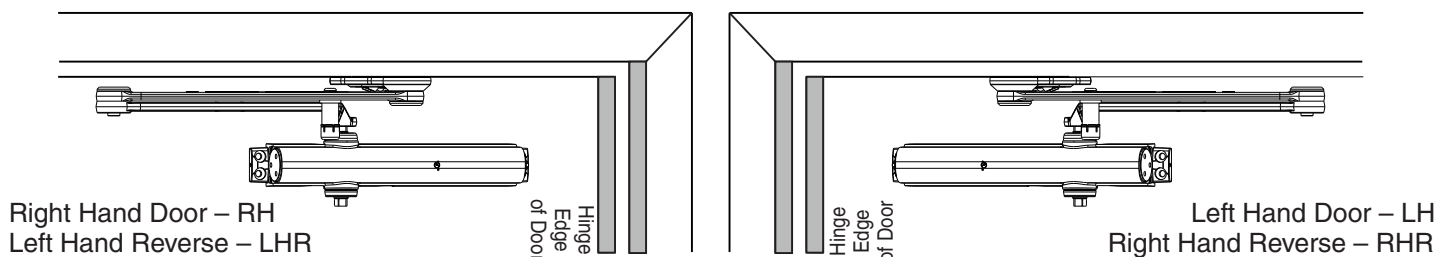
"X" Designates closer size 2, 3, 4, 5, or 6

NOTE: For special applications a separate door and frame preparation template is packed with these instructions. In those cases, use this instruction sheet for installation sequence and closer adjustments only.

Standard Frame Installation

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

See Pages 3 and 4

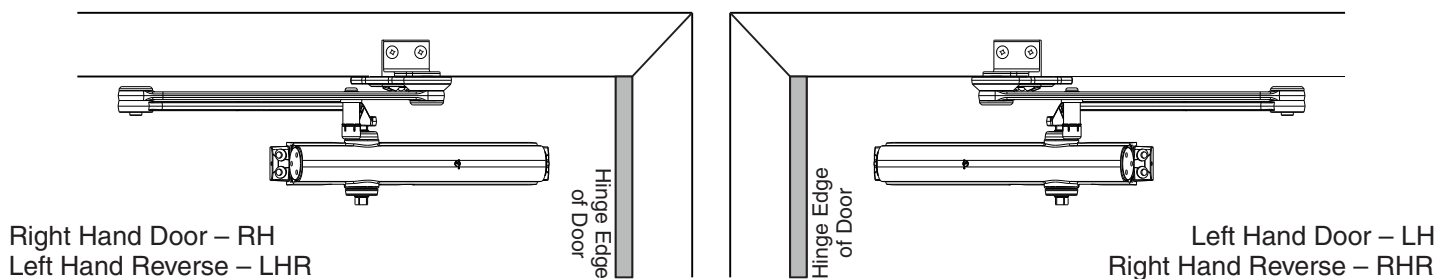


Narrow Frame Installation

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

6890 and 6891 accessories required for this application (supplied separately)

See Pages 3 and 4

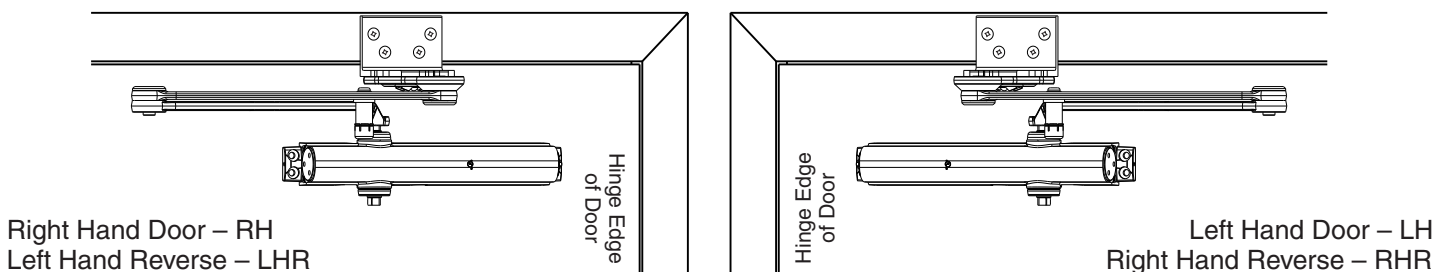


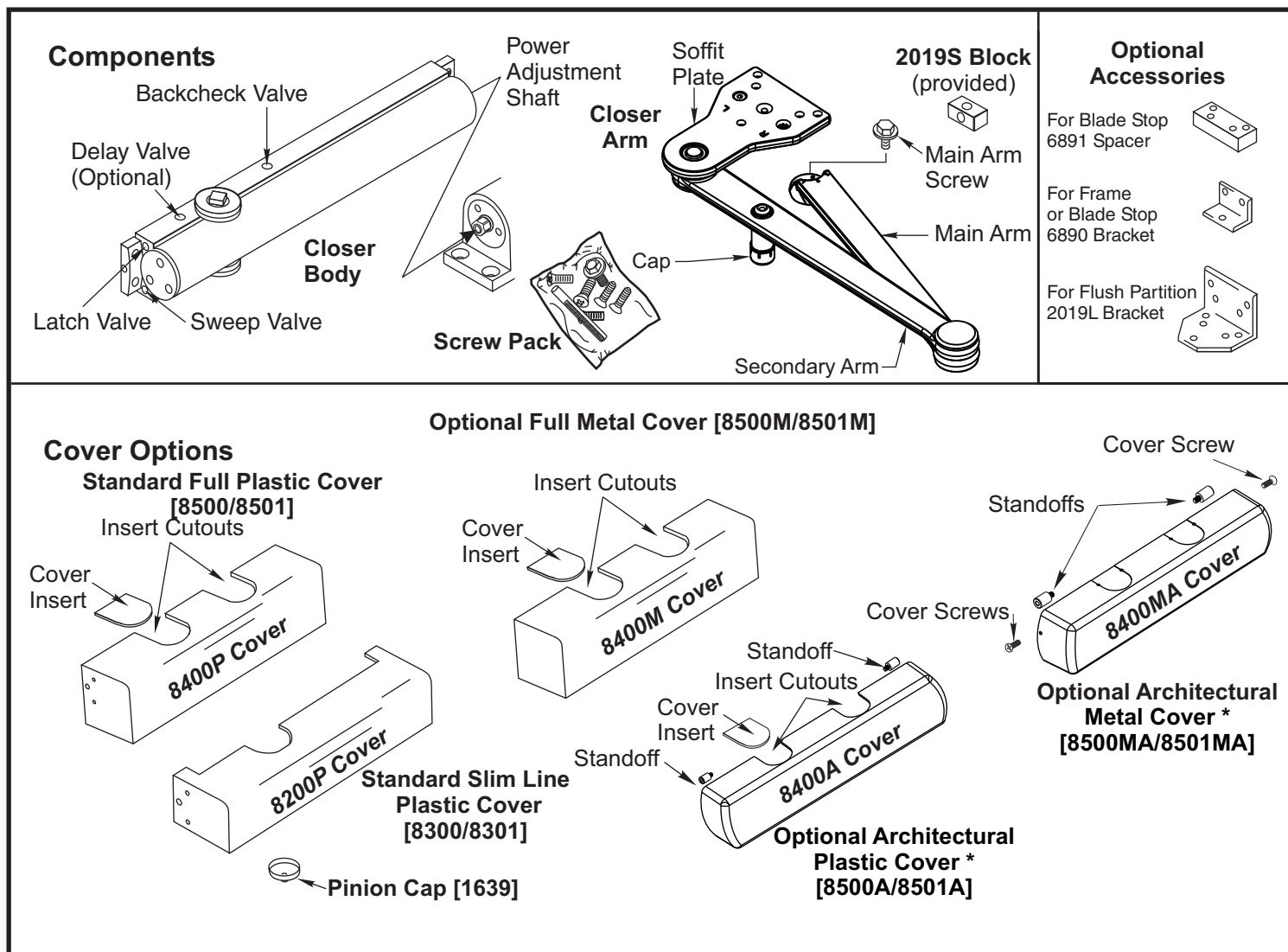
Flush Partition Installation

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

2019L accessory required for this application (supplied separately).

See Pages 3 and 4





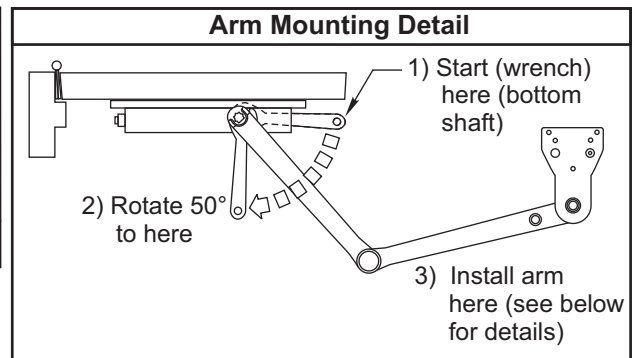
Preparation for Fasteners			
	Fasteners	Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required
		Wood (see Note)	3/16" (4.30 mm) (pilot hole required)
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (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: Pilot hole required when using self-drilling screws for wood door/frame applications.

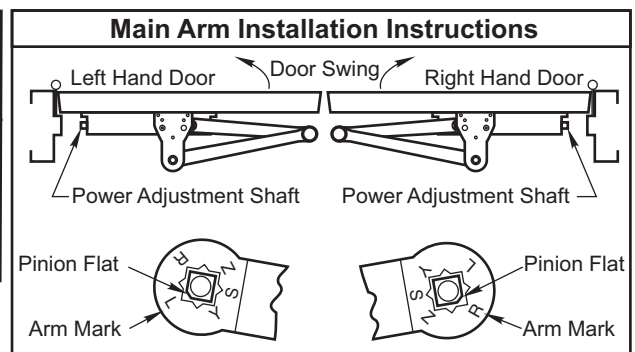
Installation Instructions

- 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 8148 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.
- Prepare door and frame for fasteners. See "Preparation for Fasteners", Page 2.
- 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**, **COUNTER-CLOCKWISE** to **Decrease** power. See Page 6 for the illustration of this step.
- Mount 8148 Dropplate ... only if required (see Page 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.
- With door closed, closer valves 'S' and 'L'. Then with a wrench, turn 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.
 See **Arm Mounting Detail** and **Main Arm Installation** at right below. (**Caution: Closer arm is under spring tension and may be difficult to rotate.**)
- Reopen valves 'S' and 'L' by turning counter clockwise.
- With door closed, align soffit plate with mounting holes in frame. Fasten soffit plate to frame with flat head screws provided.... use spacer blocks 2019S or 6891, if required. (**Caution: Closer arm is under spring tension and may be difficult to rotate.**)
- Make closer adjustments (see page 6) before installing cover ... NOTE: DO NOT back valves out of closer or a leak will result.
- Install cover (see page 6).

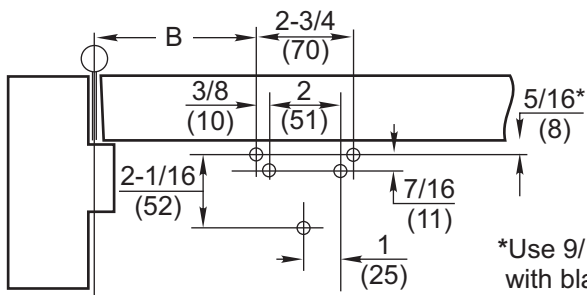
Installation Dimensions Chart									
	Dim	85°-90°	90°-95°	95°-100°	100°-105°	105°-110°	110°-115°	115°-120°	120°-180°
CLP8100R CLP8300R CLP8500R	Butt Hinges or Offset Pivots								
	A in. (mm)	5-1/2 (140)	4-3/4 (121)	4 (102)	3-3/8 (86)	2-3/4 (70)	2-1/8 (54)		
	B in. (mm)	11 (279)	10-1/4 (260)	9-1/2 (241)	8-7/8 (225)	8-1/4 (210)	7-5/8 (194)		
	Center Pivots								
	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 Size	28-32 in 0.7-0.8 m	33-36 in 0.85-0.9 m	37-42 in 0.95-1.05 m	43-48 in 1.1-1.2 m
CLP8301R/CLP8501R	Interior	9	11	13	15
	Exterior	10	12	14	16
NOTE: Maximum of 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.

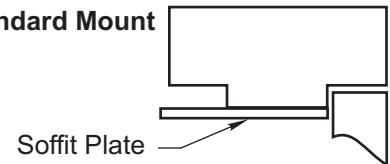
Dimensions are in inches (mm).

See Page 3 for A & B dimension values.

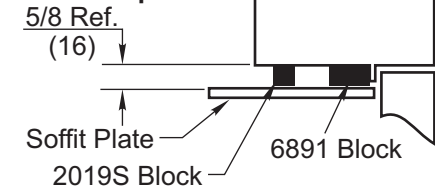
*Use 9/16 (14) in openings with blade stops.



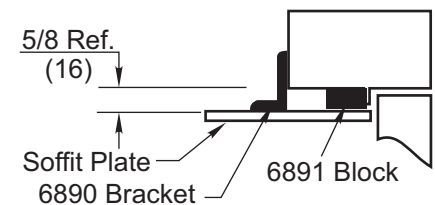
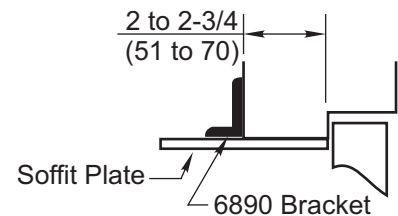
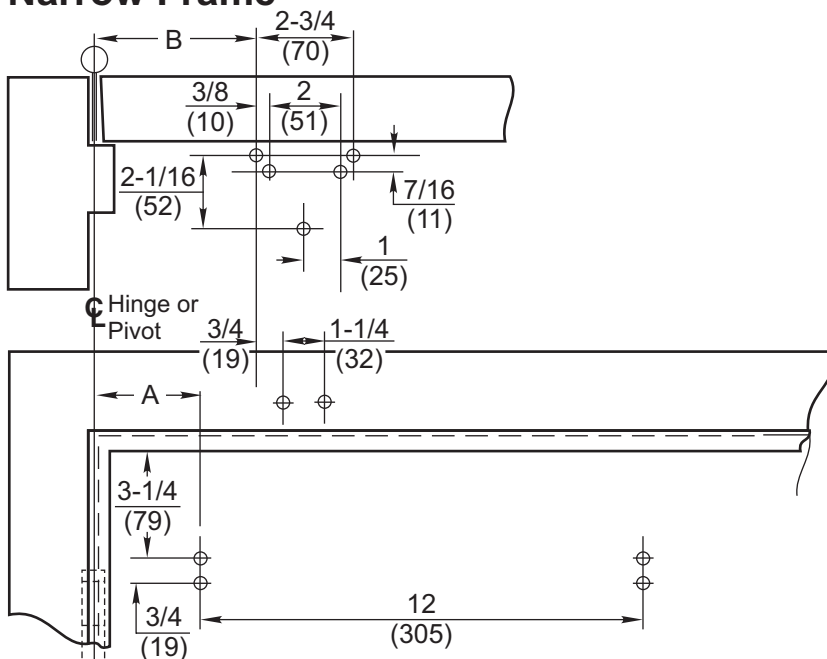
Standard Mount



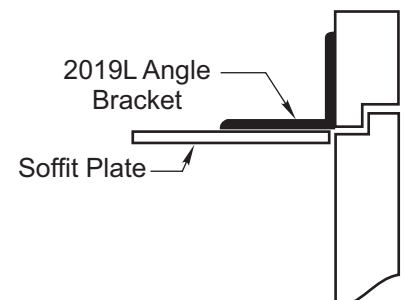
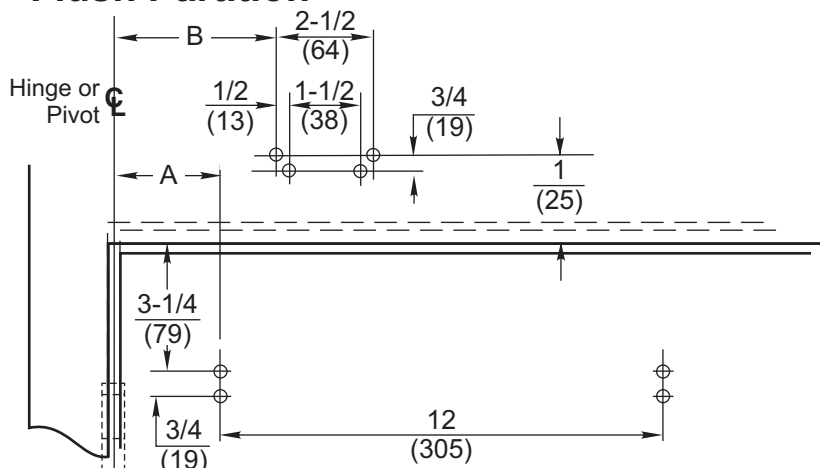
Blade Stop Mount



Narrow Frame



Flush Partition

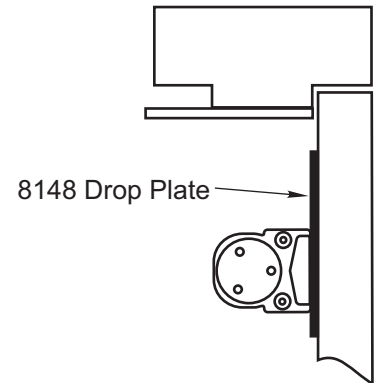
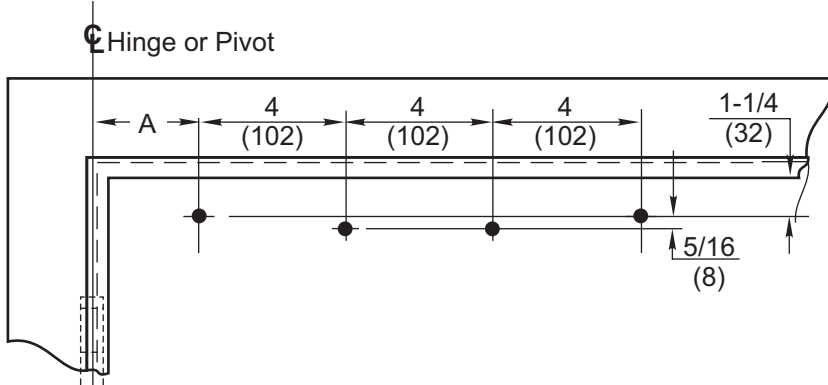


8148 Drop Plate Mounting Holes

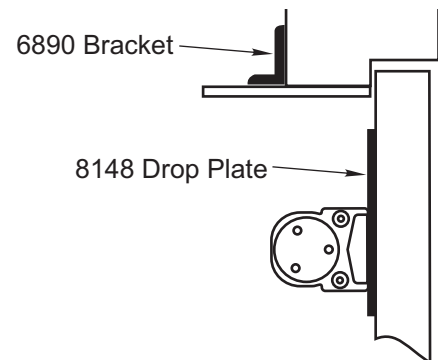
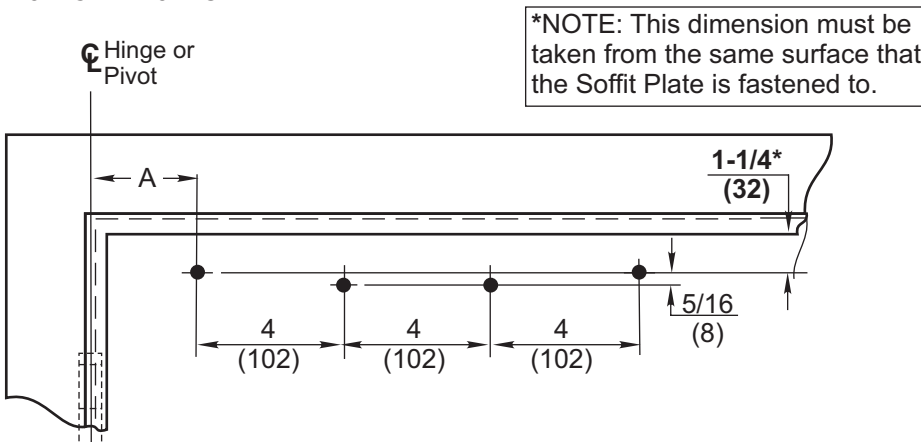


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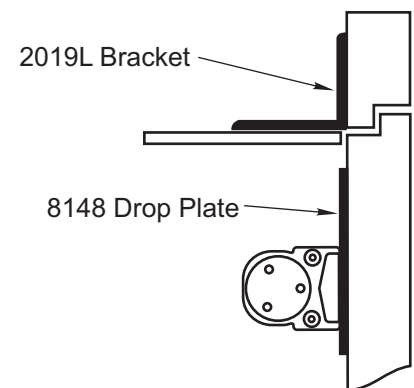
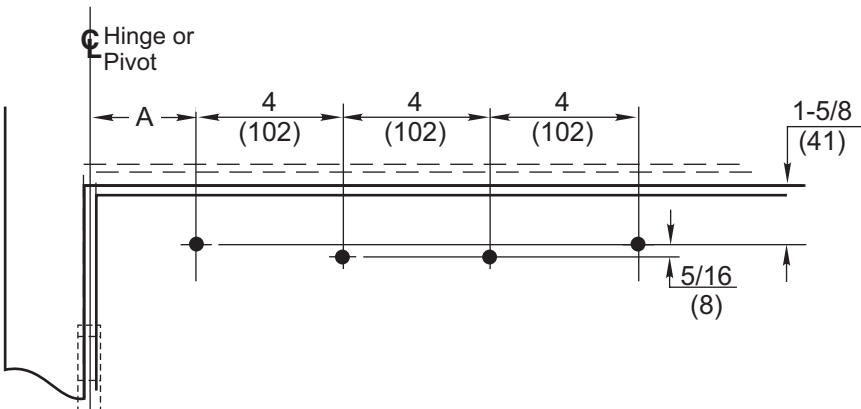
Standard Frame



Narrow Frame

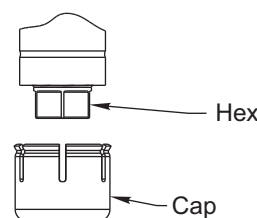


Flush Partition

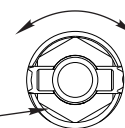


Hold-Open Feature

The hold-open mechanism is controlled by the hex nut feature located on the secondary arm underneath cap. Remove the cap by pulling straight down. Use a 7/16" wrench to adjust. Turning hex nut feature clockwise will increase the hold-open force. Turning hex nut feature counterclockwise will reduce the hold-open force. Hold-open mechanism can not be disengaged.



DECREASE - - INCREASE



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

Unit Adjustment

Closing Power Adjustment (8X01 closers only –

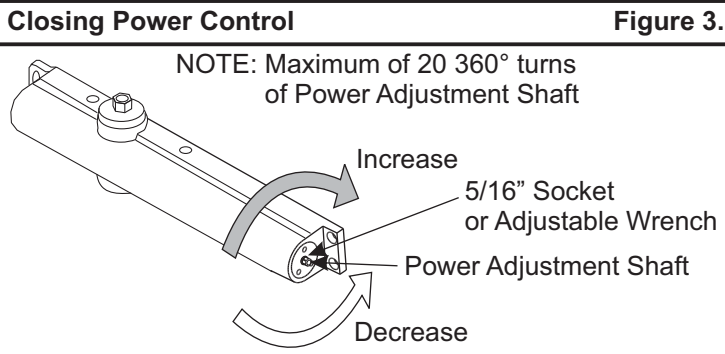
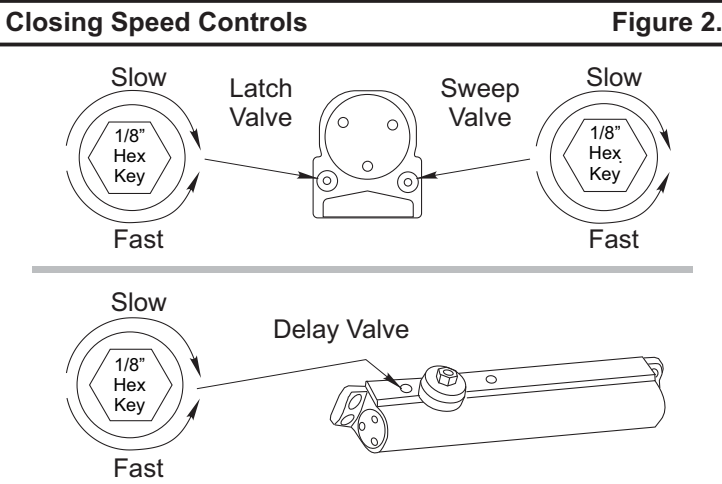
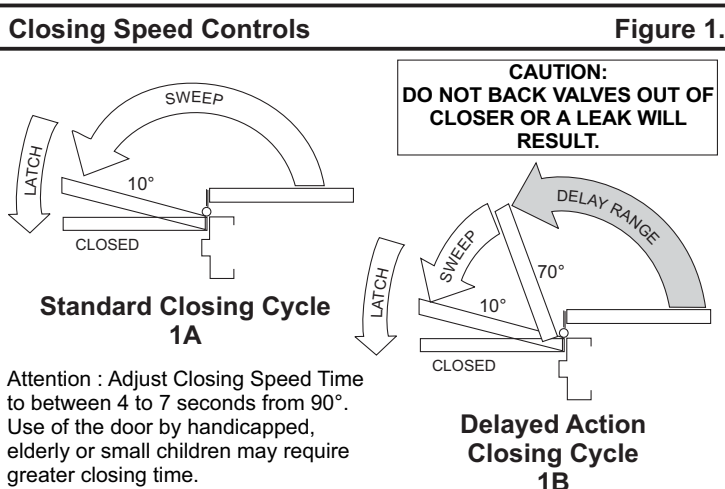
Using “Power Adjustment Chart” from Page 3, select the correct number of turns for power adjustment shaft that corresponds with the installation. With 1/8” hex-key provided, rotate adjustment shaft full 360° clockwise turns to desired setting. After closer has been installed and proper adjustments made 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).



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).

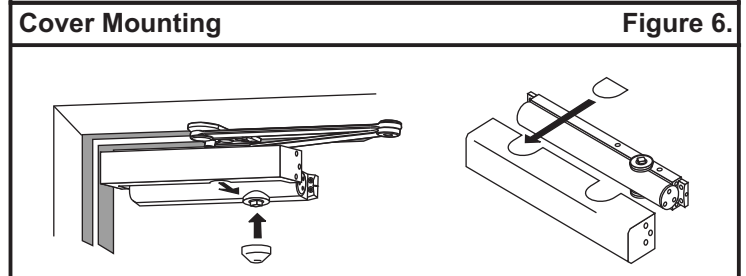
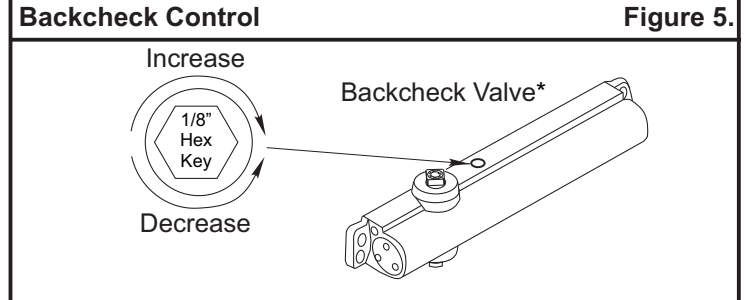
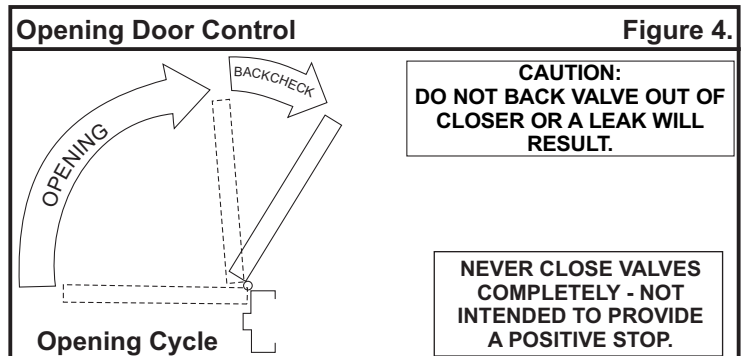
Cover–Full cover: Slide cover insert into the un-used cutout in cover. Install cover using screws provided.

Narrow 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 un-used cutout in cover. Install standoffs in ends of closer. Snap cover over standoffs.



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