Installation Instructions



CloserPlus Ramp™ Door Closers (CLP-R)

Model Numbers Included:

Series Function Sizing

ASSA ABLOY

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.

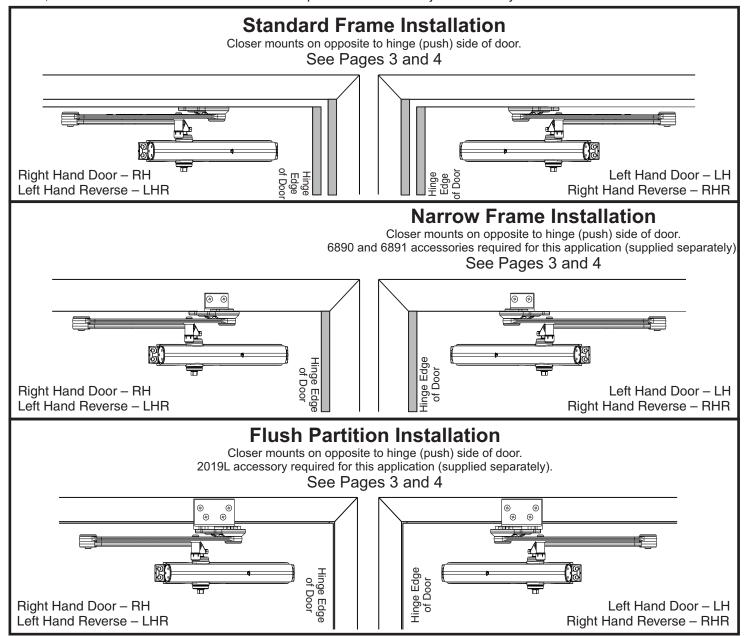
Additional Closer Options:

- "DA" indicates Delayed Action closing
- "R" indicates Ramp Hold-Open function, not handed Optional Accessories:
- 8148 Drop Plate
- 2019L, 6890, 6891 Soffit Plate Accessories

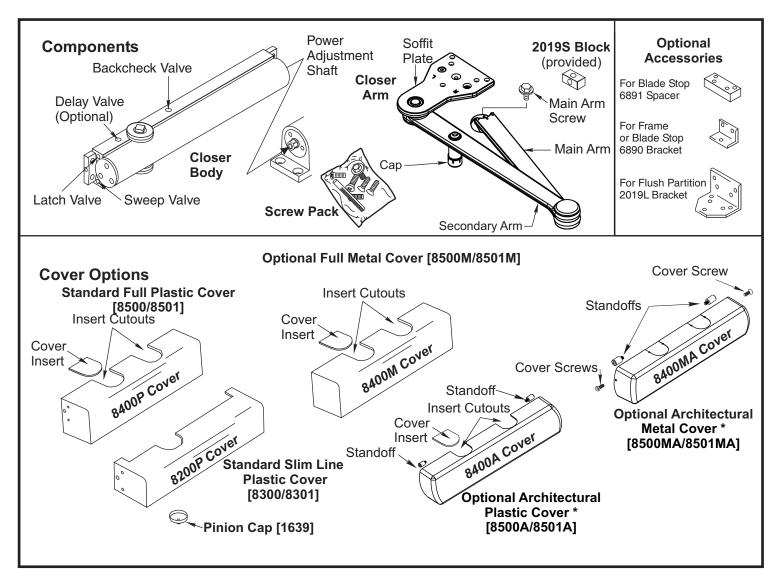
CloserPlus Arm Units	s Ramp¹	™ Hold Open
CLP8101R	НО	1-6
CLP8301R	НО	1-6
CLP8501R	НО	1-6
CLP810XR	НО	2 THRU 6
CLP830XR	НО	2 THRU 6
CLP850XR	НО	2 THRU 6

[&]quot;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.







Preparation for Fasteners							
	Fasteners	Door or Frame	Drill-Sizes				
Standard	Salf Drilling Sarow	Aluminum or Metal	No drill required				
	Self-Drilling Screw	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.



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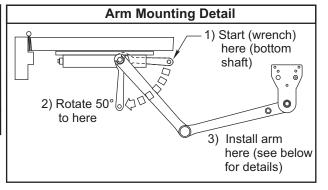
- Select angle of opening and use dimensions shown on Page 4 and Dimension Chart below to locate 4 holes on stop side of door for closer body (or 8148 drop plate, only if required, see page 5) and 5 holes on stop and/or rabbet for Soffit Plate. For applications not covered in these instructions, a separate 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.)

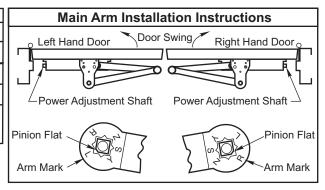
- Reopen valves 'S' and 'L' by turning counter clockwise.
- With door closed, align soffit plate with mounting holes in frame. Fasten soffit plate to frame with flat head screws provided.... use spacer blocks 2019S or 6891, if required. (Caution: Closer arm is under spring tension and may be difficult 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).

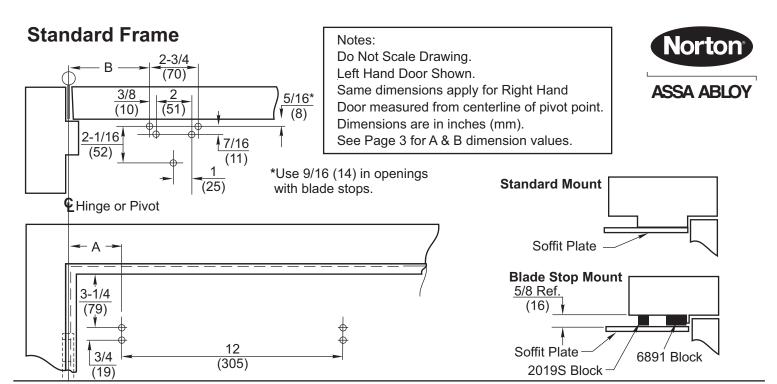
Installation Dimensions Chart											
		D	im	85°- 90°	90°- 95°	95°- 100°	100°- 105°	105°- 110°	110°- 115°	115°- 120°	120°- 180°
	~	۸	in.	5-1/2	4-3/4	4	3-3/8	2-3/4	2-1/8		
CLP8100R Offset CLP8300R Pivots		Α	(mm)	(140)	(121)	(102)	(86)	(70)	(54)		
		В	in.	11	10-1/4	9-1/2	8-7/8	8-1/4	7-5/8		
		(mm)	(279)	(260)	(241)	(225)	(210)	(194)			
CLP8500R Center Pivots		Λ Ι	in.	5-3/8	4-5/8	3-7/8	3-1/4	2-5/8	2		
		Α	(mm)	(137)	(117)	(98)	(83)	(67)	(51)		
		B	in.	10-7/8	10-1/8	9-3/8	8-3/4	8-1/8	7-1/2		
		ם	(mm)	(276)	(257)	(238)	(222)	(206)	(191)		



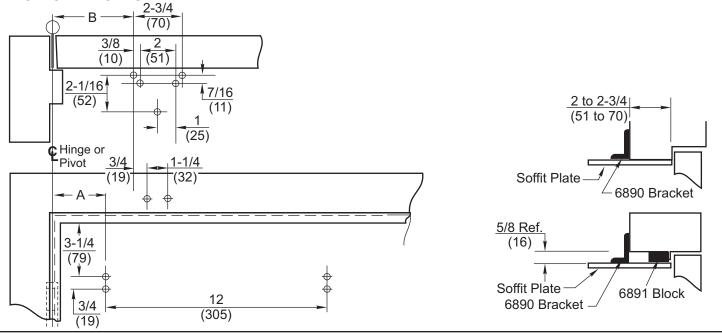
Power Adjustment Chart								
	Full Clockwise Turns of Closer Power Adjustment Shaft							
	Door Size	28-32 in 0.7-0.8 m	33-36 in 0.85-0.9 m	37-42 in 0.95-1.05 m	43-48 in 1.1-1.2 m			
CL DOOG 1 D/CL DOFG 1 D	Interior	9	11	13	15			
CLP8301R/CLP8501R	Exterior	10	12	14	16			

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

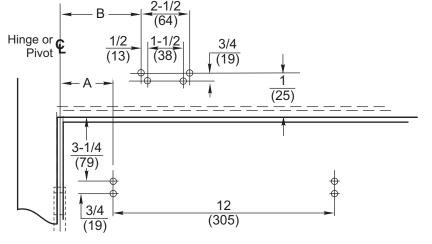


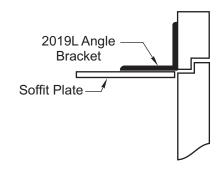


Narrow Frame



Flush Partition



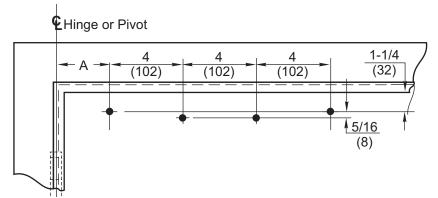


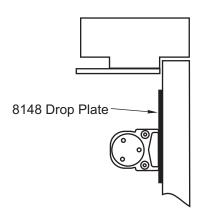
8148 Drop Plate Mounting Holes



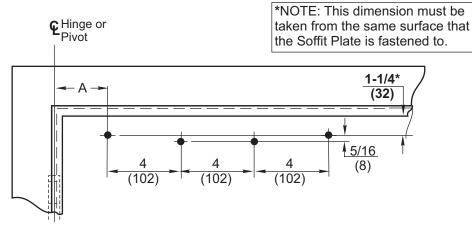
Standard Frame

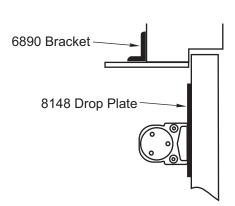




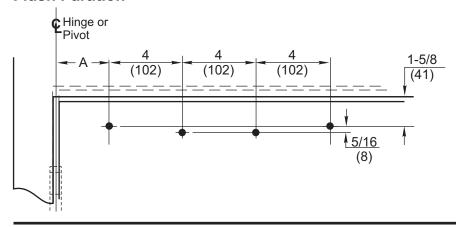


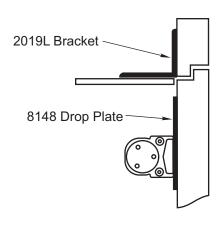
Narrow Frame





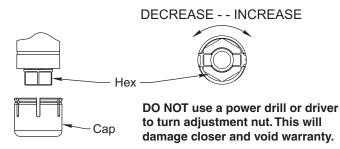
Flush Partition





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. Holdopen mechanism can not be disengaged.



Unit Adjustment

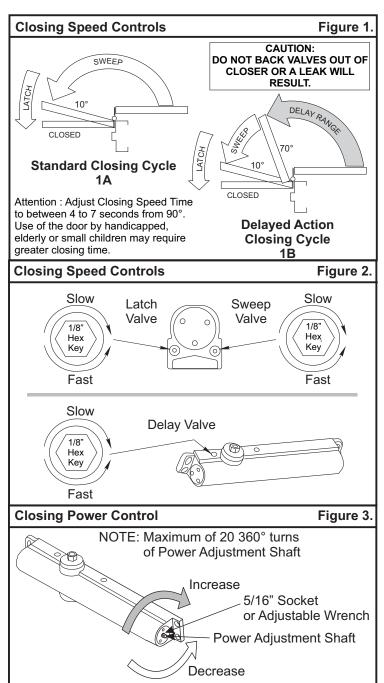
Closing Power Adjustment (8X01 closers only – Using "Power Adjustment Chart" from Page 3, select the correct number of turns for power adjustment shaft that corresponds with the installation. With 1/8" hex-key provided, rotate adjustment shaft full 360° clockwise turns to desired setting. After closer 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 unused cutout in cover. Install standoffs in ends of closer. Snap cover over standoffs.

