

Installation Instructions

CloserPlus Ramp[™] Door Closers (CLP-R)

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.	
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Model Numbers Included: Series Function Sizing

CloserPlus Arm Units	Ramp ¹	™ Hold Open
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

- 8148 Drop Plate

Additional Closer Options:

Optional Accessories:

- 2019L, 6890, 6891 Soffit Plate Accessories

- "R" indicates Ramp Hold-Open function, not handed

- "DA" indicates Delayed Action closing

"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.



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	Preparation f	or Fasteners]	
	Fasteners	Door or Frame	Drill-Sizes	1	
	Solf Drilling Sorou	Aluminum or Metal	No drill required		
Standard	Self-Drilling Screw	Wood (see Note)	3/16" (4.30 mm) (pilot hole required)	Note:	Pilot ho using s for woo
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20		applicat
	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer		
Optional		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		

ote: 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							Arm Mounting Detail					
		D	im	85°- 90°	90°- 95°	95°- 100°	100°- 105°	105°- 110°	110°- 115°	115°- 120°	120°- 180°	
H CLP8100R CLP8300R CLP8500R CLP8500R	Butt Hinges	Α	in. (mm)	5-1/2 (140)		4 (102)	3-3/8 (86)	2-3/4 (70)	2-1/8 (54)			here (bottom)
	or Offset Pivots	В	in. (mm)	11 (279)	10-1/4 (260)	9-1/2 (241)	8-7/8 (225)	8-1/4 (210)				
	Center Pivots	Α	in. (mm)	5-3/8 (137)	4-5/8 (117)	3-7/8 (98)	3-1/4 (83)	2-5/8 (67)	2 (51)			2) Rotate 50° o to here
		В	in. (mm)	10-7/8 (276)	10-1/8 (257)			8-1/8 (206)	7-1/2 (191)			
												 3) Install arm here (see below for details)

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							
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.											
	Full Clock Door Size Interior Exterior 20 turns (3	Full Clockwise Turns Door 28-32 in Size 0.7-0.8 m Interior 9 Exterior 10 20 turns (360°) of P	Full Clockwise Turns of Closer Pc Door 28-32 in 33-36 in Size 0.7-0.8 m 0.85-0.9 m Interior 9 11 Exterior 10 12 20 turns (360°) of Power Adju	Full Clockwise Turns of Closer Power Adjustm Door 28-32 in 33-36 in 37-42 in Size 0.7-0.8 m 0.85-0.9 m 0.95-1.05 m Interior 9 11 13 Exterior 10 12 14 20 turns (360°) of Power Adjustment Sh 50.0° 50.0°							





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8148 Drop Plate Mounting Holes

Standard Frame



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.



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 unused cutout in cover. Install standoffs in ends of closer. Snap cover over standoffs.



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