

PARALLEL ARM MOUNTING (PUSH SIDE)

TECHNICAL DIMENSIONS:

Left hand door illustrated same dimensions apply to right hand door. Measured from hinge center. Dimensions are in inches (mm) Not To Scale

Dimension: Model No.	Dimension "A"		Dimension "B"		Opening Angle
	Inch	mm	Inch	mm	
CL8400BF	9-1/4	235	7-5/8	194	TO 100°
	7-3/4	197	6-1/8	156	101° TO 131°
	5-3/4	146	4-1/8	105	OVER 131°

Pinion flat For left hand door

Pinion flat For right hand door

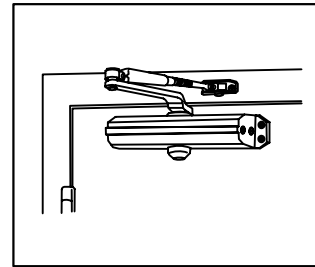
INSTALLATION STEPS:

1. Select opening angle of the door. USE dimensions shown in chart and illustration above to drill mounting holes on door frame and leaf.
2. Attach closer to door leaf with speed regulating valves away from hinge.
3. Attach PA plate to top frame as shown.
4. Remove foot from forearm as shown and discard it.
5. Install main arm on pinion shaft, Rotate pinion 45° toward hinge edge of door to align main arm letter "B" (Right hand door) or "A" (Left hand door) with pinion flat. Fasten with arm screw.
6. Fasten forearm to PA plate.
7. Adjust forearm length to set the arm elbow about 1-1/2" (38mm) from door when connected to main arm. USE washer and screw provided to secure pivot connection. Tighten locknut.
8. Snap pinion cap over spindle at bottom.
9. Adjust closer. (Same to Page 2)

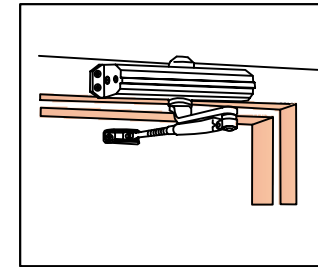
CL8400BF DOOR CLOSERS INSTALLATION INSTRUCTIONS



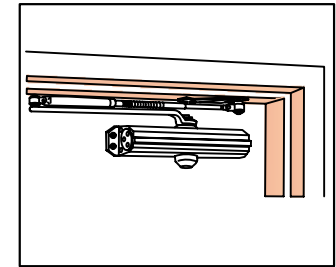
MOUNTING OPTIONS:



Regular Arm (Pull Side)

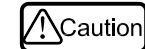
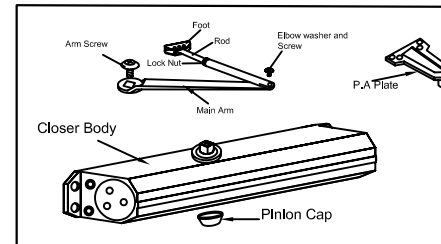


Top Jamb (Push Side)



Parallel Arm (Push Side)

SPARE PARTS OF CLOSERS

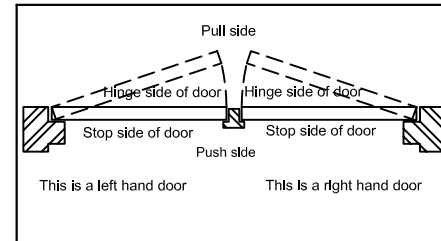


PLEASE READ INSTRUCTIONS CAREFULLY BEFORE INSTALLATION; WE WON'T BE RESPONSIBLE FOR ANY RESULTS WHICH ARE CAUSED BY IMPROPER INSTALLATION!

SPRING POWER SETTING AND DOOR WIDTH

Regular & Top Jamb Closers				Parallel Arm Closers		
Maximum Size of Door						
Interior	Exterior Inswing	Exterior Outswing	Interior	Exterior Outswing	Full 360° Turns	
28"					-4 Turns C.C.W	
36"			30"		0 Turn	
42"	30"	36"	36"	30"	4 Turns C.W	
48"	36"	42"	42"	36"	12 Turns C.W	
54"	42"	48"	48"	42"	4 Turns C.W	
60"	48"	54"	54"	48"	12 Turns C.W	

HOW TO TELL HAND OF DOOR.



DOOR CLOSING CONTROL

Caution: Do not back valves out of closer or a leak will result.

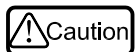
ATTENTION: Adjust closing time between 4 to 6 second from 90°. USE of the door by handicapped, elderly or small children may require longer closing time.

Standard closing cycle

DOOR OPENING CONTROL

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ATTENTION: Backcheck ("BC") valve controls the hydraulic resistance to door opening in backcheck range. NEVER close this valve completely. it is not to provide a positive stop.



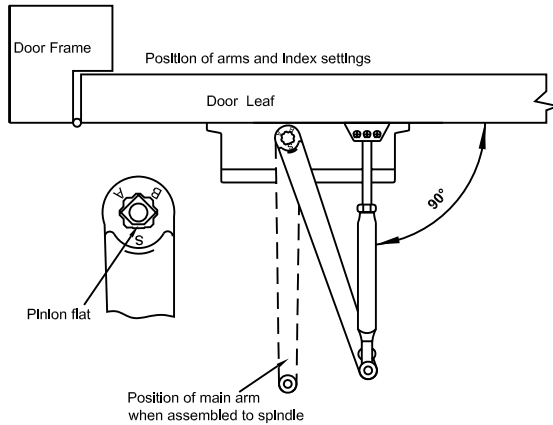
IMPROPER INSTALLATION MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. FOLLOW ALL INSTRUCTIONS CAREFULLY PLEASE.

REGULAR ARM(PULL SIDE)

TECHNICAL DIMENSIONS

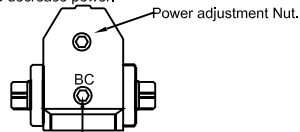


Dimension Model No.:	Dimension "A"		Opening Angle
	Inch	mm	
CL8400BF	7	178	TO 100°
	6	152	101° TO 120°
	3-1/2	89	OVER 180°



POWER SIZE AND BACK CHECK ADJUSTMENT

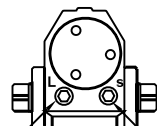
Adjust the spring power as per chart on page 1. DO NOT exceed the maximum turns. The spring power has been preset on size 3 in factory. Turn this screw clockwise to increase or counter clockwise to decrease power.



Turn BC regulating valve clockwise to strengthen or counter clockwise to reduce the intensity. NEVER close this valve completely.

SWEEP AND LATCHING SPEED ADJUSTMENT

Turn speed regulating valve clockwise to slow down or counter clockwise to speed up door movement.

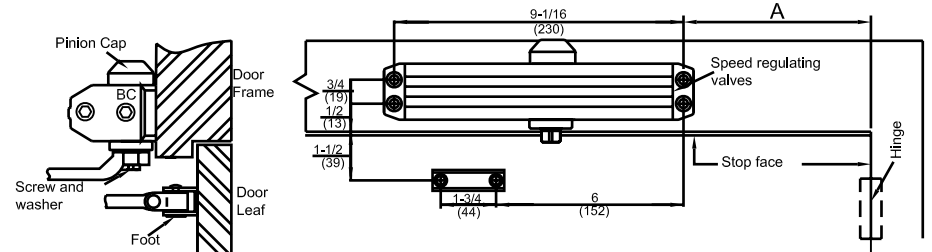


This valve controls latching speed

This valve controls sweep speed

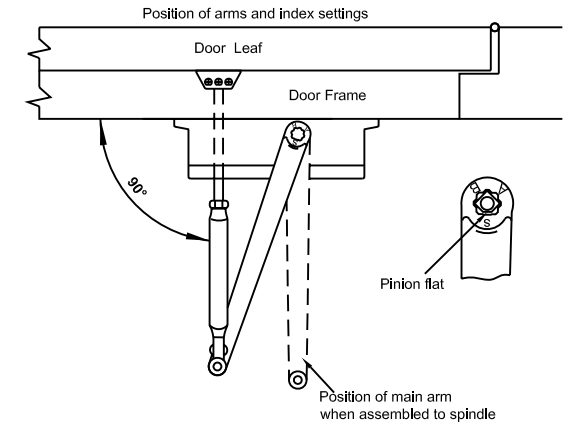
TOP JAMB MOUNTING (PUSH SIDE)

TECHNICAL DIMENSIONS:

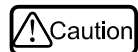


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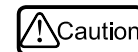
Right hand door illustrated same dimensions apply to left hand door. Measured from hinge center. Dimensions are in inches (mm) Not To Scale



Adjust length of the forearm to position forearm at right angle to the frame when connected to main arm at elbow. USE Washer and screw provided to secure pivot connection. Tighten locknut on forearm.
6. Snap pinion cap over spindle at bottom of the closer.
7. Adjust closer. (Same to Page 2)



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