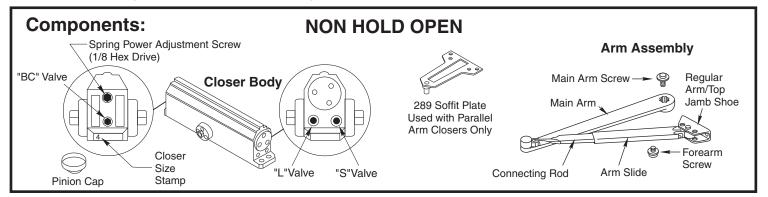
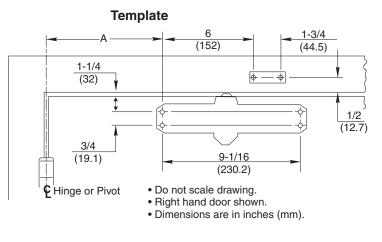


Use this instruction sheet for installation sequence and closer adjustments only

- It is recommended that the door on which the door closer will be installed be hung on ball bearing hinges. Door must swing freely
- A separate door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm, or to the door, frame or adjacent walls.
- Door and Frame must be properly reinforced, or use of special fasteners employed, to prevent the mounting screw from pulling out.
- All dimensions are given in inches with corresponding metric dimensions (mm) in parenthesis.



Regular Arm Installation



Select door opening angle using template above. Mark 4 holes on

251 or 251BF Models Only. Set closing power using "Power

. Install closer with "S" and "L" adjustment valves toward hinge edge

Install main arm onto closer pinion shaft, indexing main arm mark "S" with pinion flat as shown at right. Fasten with arm screw.

door for closer and 2 holes on frame for arm shoe.

• Prepare door and frame for fasteners See "Preparation for

Installation Sequence

Adjustment Chart" below right.

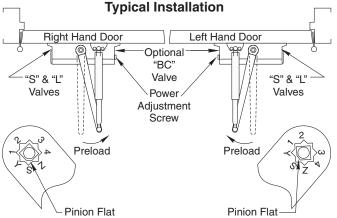
Mount arm shoe to frame face.

Fasteners" below.

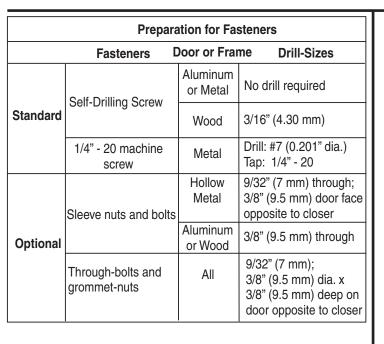
!

of door.

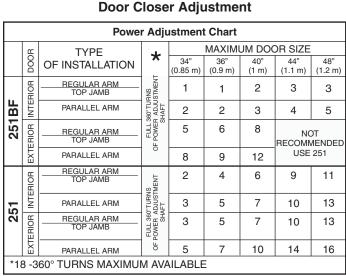
Dimension A inches 101° to 120° 6 152 121° to 180° 3-1/2 89 * Door/Wall/Hardware/Jamb conditions permitting

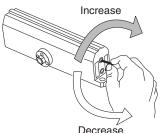


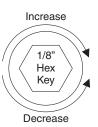
- Open door to allow connecting rod to be inserted into arm slide. Insert rod and close door. Preload main arm by rotating away from hinge until forearm is perpendicular (at 90° angle) to door. Secure with forearm screw.
- Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver -DO NOT OVER TIGHTEN.



Adjust closer.





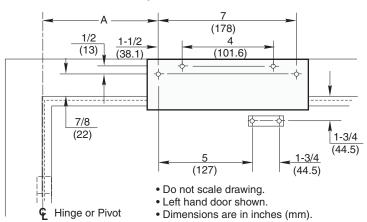


80-9350-2527-010 (06-09)

Side Elevation

Top Jamb Installation Using 587 Dropplate

Template



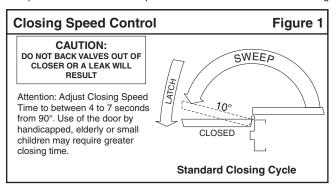
Installation Sequence

- Select door opening angle using template above. Mark 4 holes on frame face for Dropplate and 2 holes on door for arm shoe.
- Prepare door and frame for fasteners. See "Preparation for Fasteners" at bottom of Page 2.
- ! 251 or 251BF Models Only. Set closing power using "Power Adjustment Chart" at bottom of Page 2.
- Mount drop plate to frame.
- Install closer to drop plate with "S" and "L" adjustment valves toward hinge edge of door.
- Mount arm shoe to door.
- Install main arm onto closer pinion shaft, indexing main arm mark "S" with pinion flat as shown at right. Fasten with arm screw.
- Open door to allow connecting rod to be inserted into arm slide. Insert rod and close door. Preload main arm by rotating away from hinge until forearm is perpendicular (at 90° angle) to door. Secure with forearm screw.
- Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver DO NOT OVER TIGHTEN.

• Adjust closer.

Door Closer Adjustment (Continued)

"DA" suffix (Delayed Action) is an optional feature. A separate instruction will be packed with these instructions showing valve locations and adjustment procedures.



Unit Adjustment Closing Speed Controls (Figure 1)

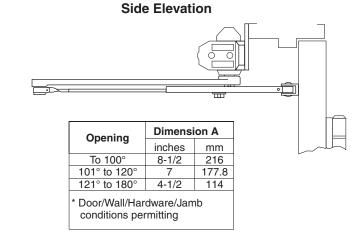
- Valve "S" controls sweep range.
- Valve "L" controls latch range.

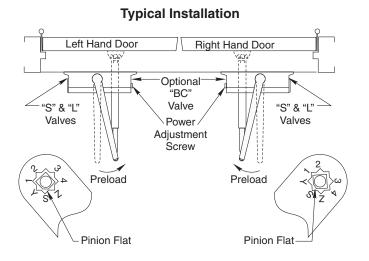
Opening Door Control Figure 2

Opening Door Control

 Backcheck ("BC") valve controls the hydraulic resistance to door opening in backcheck range. NEVER close this valve completely

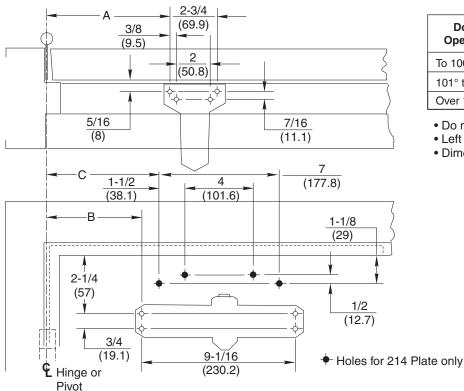
 it is not to provide a positive stop.





Parallel Arm Installation

Template



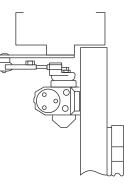
Door Opening	Dimension A		Dimension B		Dimension C	
	Inches	mm	Inches	mm	Inches	mm
To 100°	9-1/4	235	7-5/8	194	8-5/8	219
101° to 130°	7-3/4	197	6-1/8	156	7-1/8	181
Over 131°	5-3/4	146	4-1/8	105	5-1/8	130

• Do not scale drawing

Left Hand shown

• Dimensions are in inches (mm)

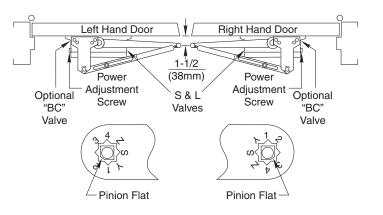
Side Elevation



Installation Sequence

- Select door opening angle using template above. Mark 4 holes on door for closer or 214 dropplate and 4 holes on frame for soffit plate.
- Prepare door and frame for fasteners. See "Preparation for Fasteners" bottom of Page 2.
- 251 or 251BF Models Only. Set closing power using "Power Adjustment Chart" at bottom of Page 2.
- Mount 214 dropplate ... only if required.
- Install closer with "S" and "L" adjustment valves toward lock edge of door.
- Mount soffit plate to frame.
- Install main arm onto closer pinion shaft. Rotate pinion 45° toward hinge edge of door to align main arm letter "3" (right hand) or "2" (left hand) with pinion flat. Fasten with arm screw.
- Fasten forearm to soffit plate. Adjust forearm length to set arm elbow about 1-1/2" (38mm) from door when connected to main arm. Tighten forearm screw.
- Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver DO NOT OVER TIGHTEN.
- Adjust closer. See Closer Adjustments on Pages 2 and 3.

Typical Installation





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