Installation Instructions



of

281 Series

Door Closer with CPS/CPSH Arms &

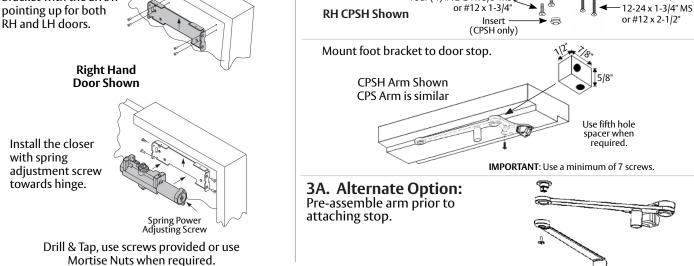
281 Series Adjustable from Sizes 1 thru 6

1. Prepare door and frame.

- Determine maximum degree of door opening or hold open (CPSH) required.
- Drill and tap door and frame for #12-24 machine so When using self tapping screws provided, pre-drill 3/32" drill.

		Degree of Door Opening at Hold Open				
		85°	90 °	95°	100° ●	105° ●
crews. with	Dim A	9-7/16"	8-3/4"	8-1/8"	7-9/16"	7-1/16"
	Dim B	4-9/16"	3-15/16"	3-5/16"	2-11/16"	2-3/16"
	• Do not use with swing clear binge for door openings greater than 95° Use					

Do not use with swing clear hinge for door openings greater than 95°. Use Centerline alternate type of hinges. of Hinge Α ■ Dimensions for given degree based on 4-1/2" hinge. When 5-1/2" to 6" hinges are used, hold open angle will change by less than 1/2". Dead stop occurs 3° beyond hold open. Centerline 13/16" Hinge 1-7/8 **Right Hand Door** (From Stop) Shown Left Hand Door or 5/8 2-11/16" Opposite **IMPORTANT NOTICE |** 🌐 Pre-drill 3/32" holes 5/16" 13/16" LEFT HAND DOOR RIGHT HAND DOOR 10-3/8 for self-tapping PULL _____ HINGE SIDE FULL HINGE SIDE 1-15/16" screws or tap #12-24 3-1/16" for machine screws. STOP (PUSH) SIDE STOP (PUSH) SIDE 3-7/8 B Closers are non-handed 2. Install mounting bracket and closer. 3. Install stop and foot bracket to door stop. Use information provided in Step 1 above and the Arm must be the same hand template provided on page 4 to locate and drill holes. as the door. Assemble holder with bumper and insert (CPSH only) to foot bracket. Location ← Bumper & of these parts determines the Holder Install the mounting "hand". 12-24 x 1" MS bracket with the arrow or #12 x 1-3/4" Four (4) #12-24 x 5/8" MS or #12 x 1-3/4 pointing up for both



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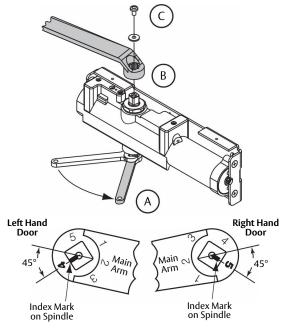
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4. Attach Arm to Spindle

WARNING: If not properly indexed, door closer will not function properly.

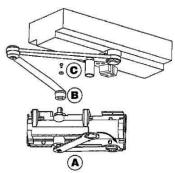
- A. Rotate bottom spindle with wrench.
- B. Assemble main arm with index mark positioned as shown.

C. Secure with screw and washer.



4A. Alternate Option:

Attach Pre-Assembled Arm to Spindle.

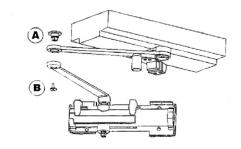


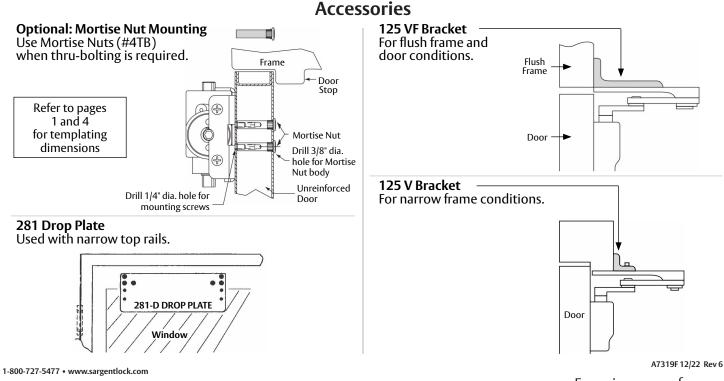
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5. Install Pivot

- A. Open door and install pivot as shown.
- B. Use screw to secure pivot and arms.





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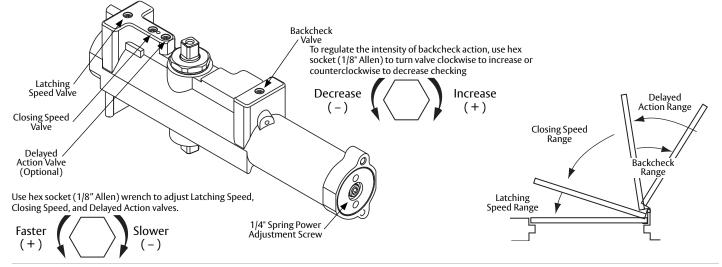
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Final Adjustment and Regulating Procedures

- Recommend 6 second minimum from 90° to the closed position.
- Closing and Latching Speeds: Turn valves clockwise to slow down or counterclockwise to speed up door movement.
- Backcheck: To regulate the intensity of backcheck action, turn valve clockwise to increase or counterclockwise to decrease checking. CAUTION: Set valve for slight cushioning effect; Closer can be damaged if the checking action is too abrupt. Never use the backcheck as a door stop. Always use a door stop to stop the door.
- Delayed Action Feature (Optional on some models): Delayed action provides slow door closing through the delayed action range. Turn valve clockwise to slow down or counterclockwise to speed up door movement.



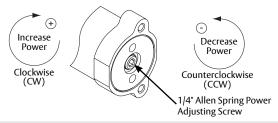
Adjust closing power to the minimum force required to reliably close and latch door.

- If door is hard to open, decrease power slightly.
- If door does not latch, increase power as required.
- Use chart below as a starting point.
- Doors adjusted with high closing power to overcome strong draft conditions may exceed ADA standards.

Door Width in inches	Exterior Doors	Interior Doors *
24 - 30	2 - 7 turns CW	1-5 turns CCW
30 - 36	7 - 11 turns CW	3-6 turns CCW
36 - 42	11 - 15 turns CW	Factory Set
42 - 48	15 -17 turns CW	8 turns & Up CW

NOTES:

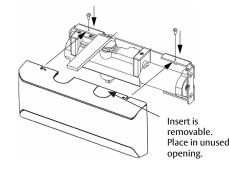
- Adjusting door to close due to high draft conditions may exceed ADA standards.
- Consult local ordinances when fire doors are involved.



* If interior doors do not have to comply with ADA requirements, exterior settings are recommended. Where strong drafts exist, increase spring power as needed.

Install Cover

Install cover with two (2) security screws as shown.

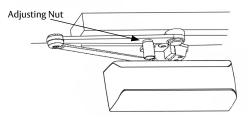


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To Adjust Holder Arm (CPSH Arm ONLY)

All CPSH arms are shipped in Non-Hold Open from the factory. To set in Hold Open, turn the adjusting nut approximately 1-1/2 turns clockwise.



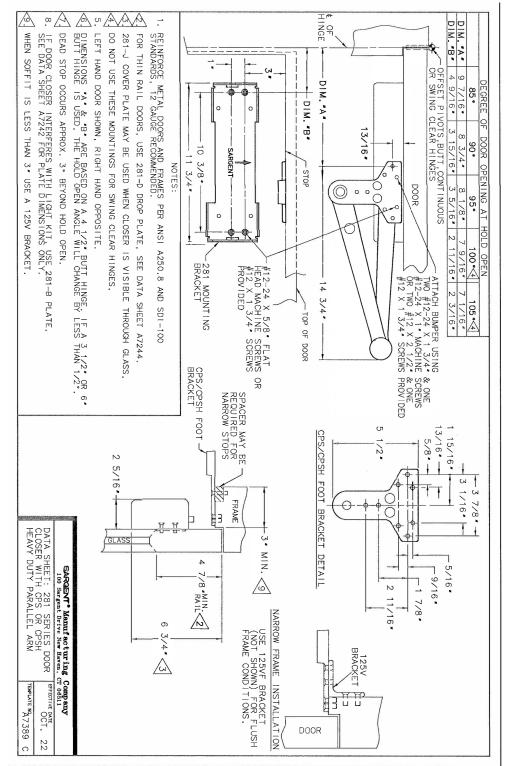
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This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Attention Installer: Improper installation may result in damage to the product and void the factory warranty.



Template

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