

# 281 DOOR CLOSERS WITH O10, H10 & SSO ARMS

## INSTALLATION INSTRUCTIONS

**SARGENT**

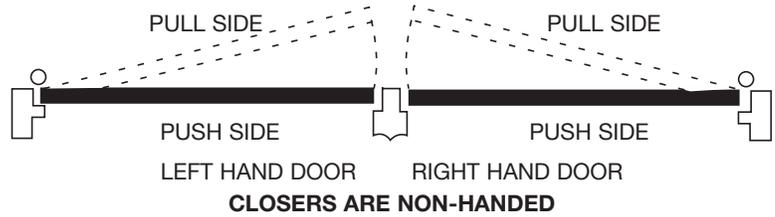
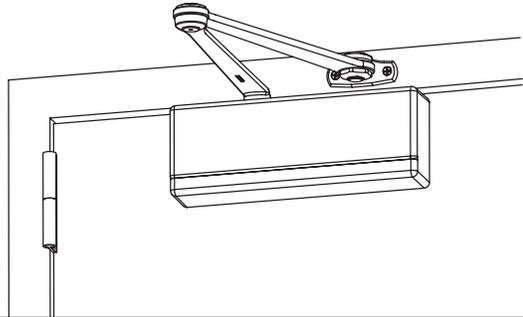
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281 SERIES ADJUSTABLE FROM SIZE 1 THRU 6

**CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY OR DAMAGE. FOR ASSISTANCE, CALL SARGENT AT 1-800-727-5477.**

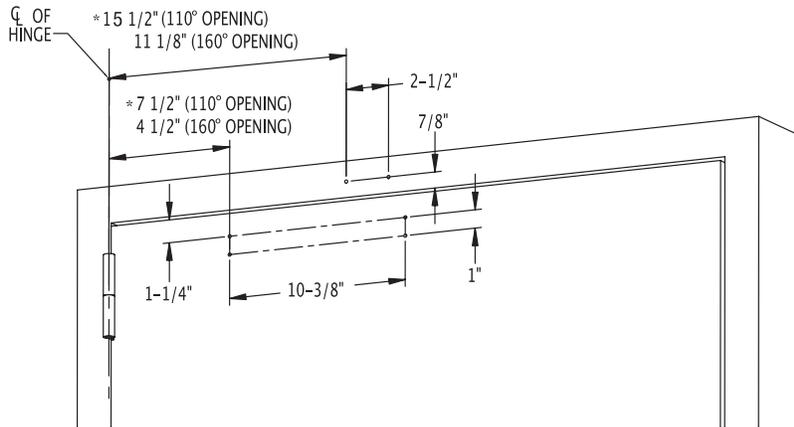
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**A**

DRILL AND TAP DOOR AND FRAME FOR #12-24 MACHINE SCREWS. RIGHT HAND SHOWN, LEFT HAND OPPOSITE.

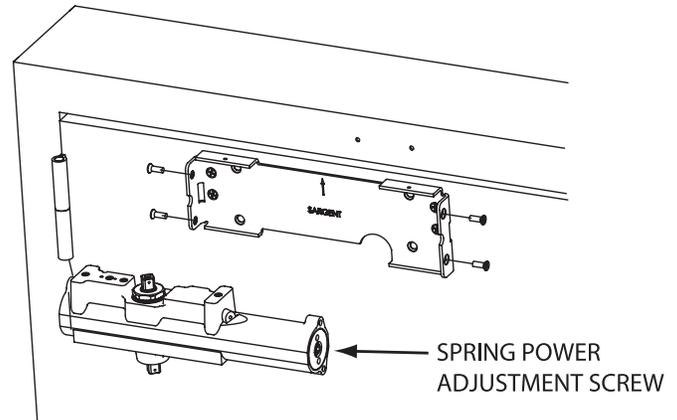
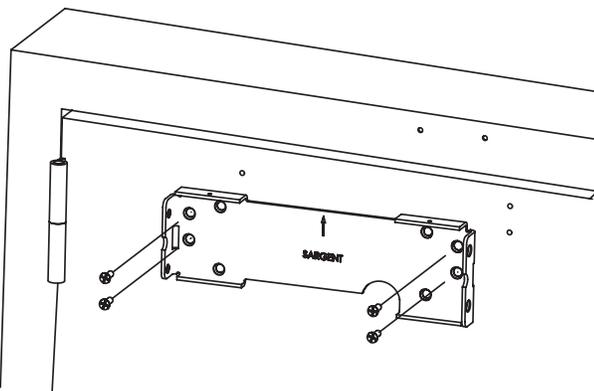
\*NOTE: FOR MAXIMUM POWER, INSTALL FOR 110° OPENING



**IMPORTANT NOTICE**  
PRE-DRILL 3/32"  
HOLES FOR  
SELF-TAPPING SCREWS  
OR TAP #12-24 FOR  
MACHINE SCREWS

**B**

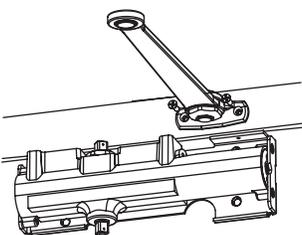
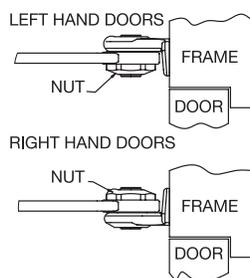
INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS. MOUNT CLOSER WITH SPRING ADJUSTING SCREW AWAY FROM HINGE. SEE PAGE 2 FOR THRU BOLT INFO.



**C**

ATTACH ARM TO FACE OF FRAME.

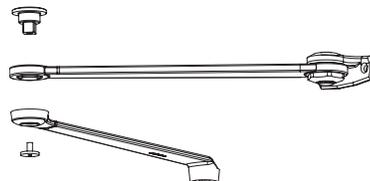
FOR H10 ARM ONLY



RIGHT HAND SHOWN

**C1**

ALTERNATE: PREASSEMBLE ARM PRIOR TO ATTACHING TO STOP.

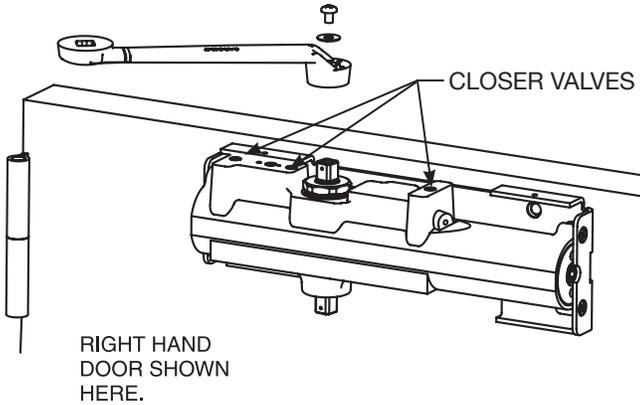


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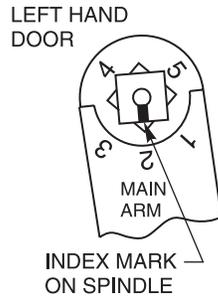
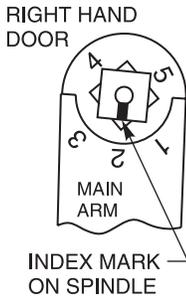
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**D**

- A. ATTACH ARM WITH INDEX MARK ON SPINDLE  
ALIGNED AS SHOWN BELOW  
B. SECURE WITH SCREW AND WASHER.



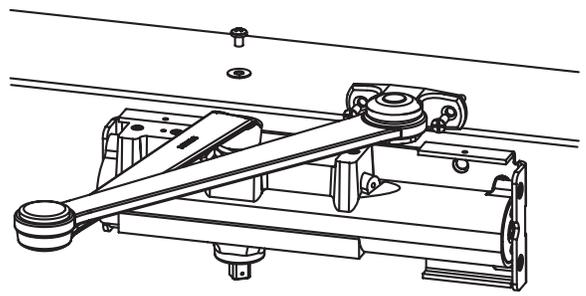
FOR LEFT HAND DOOR: MOUNT  
CLOSER WITH SPRING ADJUST  
END AWAY FROM HINGE WITH  
VALVES FACING DOWN



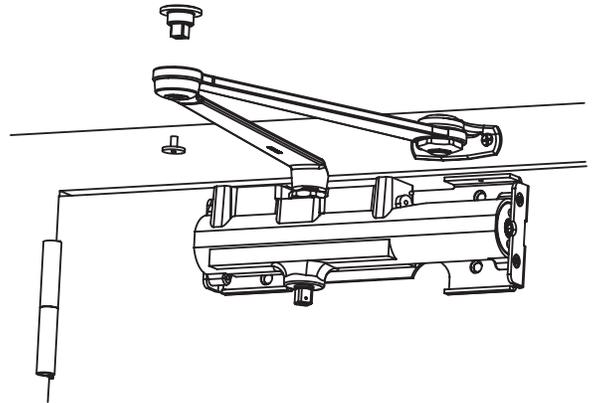
**!! \* WARNING: IF NOT PROPERLY INDEXED, DOOR  
CLOSER WILL NOT FUNCTION PROPERLY. !!**

**D1**

- ALTERNATE METHOD FOR ATTACHING  
PREASSEMBLED ARM

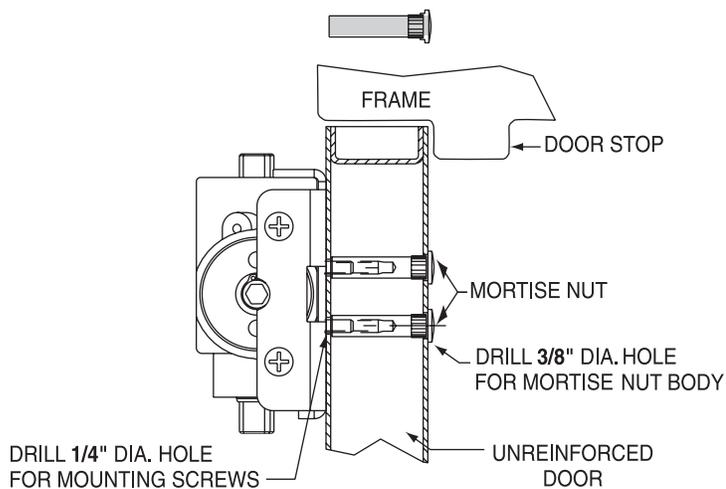
**E**

- A. INSTALL PIVOT AS SHOWN  
B. USE SCREW TO SECURE PIVOT AND ARMS AS SHOWN

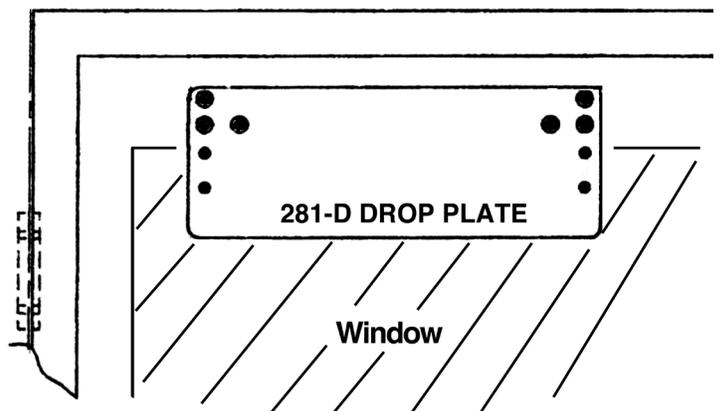


## ACCESSORIES

**OPTIONAL: USE MORTISE NUTS (#4TB)  
WHEN THRU-BOLTING IS REQUIRED**



**281 DROP PLATE USED WITH NARROW TOP RAILS.**

**2**

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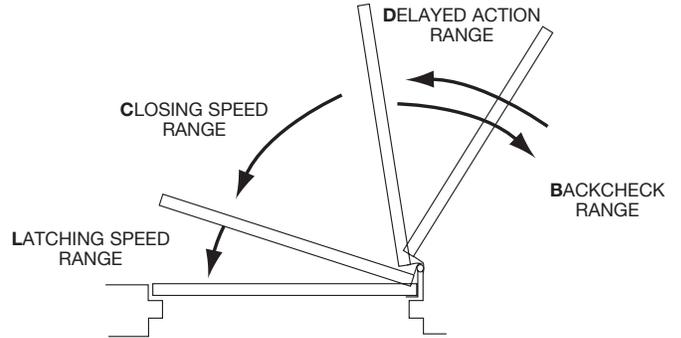
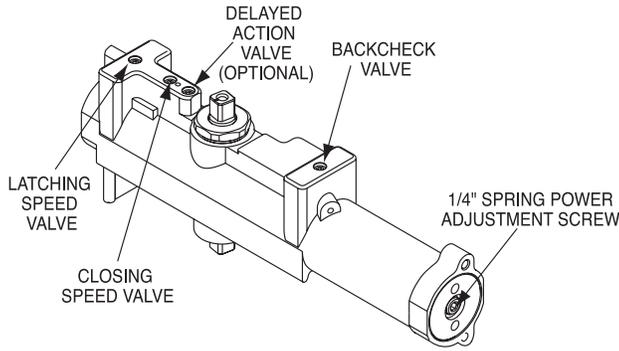
## FINAL ADJUSTMENT AND REGULATING PROCEDURES

**F**

- Adjust Door speed, and Latching speed valves to achieve the desired closing time. Recommend 6 seconds minimum from 90° to the closed position.
- If Backcheck is required, adjust valve to achieve a slight cushioning effect. Auxiliary stop required
- If closer is equipped with Delayed Action, regulate valve to achieve the desired delay.



**USE 1/8" HEX WRENCH  
TO ADJUST VALVES**

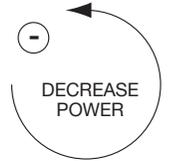
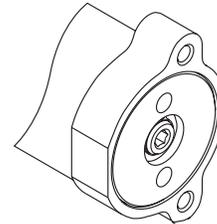
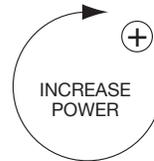


**G**

**Adjust Closing power to the minimum 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 the chart below as a starting point

Doors adjusted with high closing power to overcome strong draft conditions may exceed ADA standards



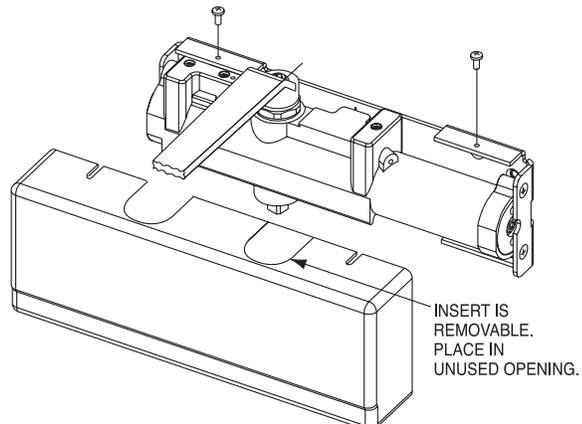
ADJUST CLOSING  
POWER WITH A 1/4"  
HEX WRENCH

### SPRING POWER ADJUSTMENT GUIDELINES

DOOR WIDTH (INCHES)	EXTERIOR DOORS	*INTERIOR DOORS
24-30	Turn screw 2-7 ↘	Turn screw 1-5 ↘
30-36	Turn screw 7-11 ↘	Turn screw 3-6 ↘
36-42	Turn screw 11-15 ↘	FACTORY SET
42-48	Turn screw 15-17 ↘	Turn screw 8 & up ↘

**H**

**INSTALL COVER WITH TWO SCREWS AS SHOWN. SSP INCLUDES HANDED METAL COVER (NOT SHOWN) AND 6 LOBE SECURITY SCREWS.**



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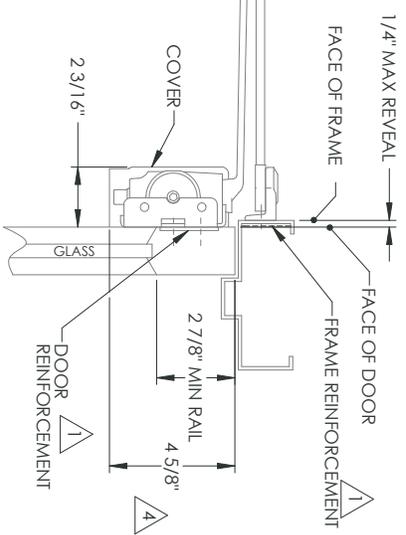
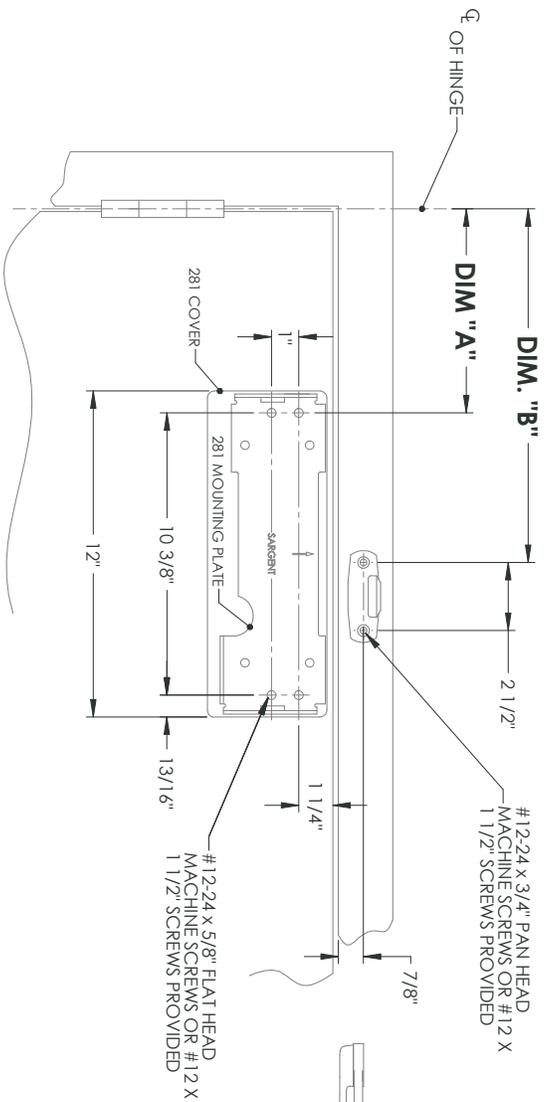
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MOUNTING POSITIONS		
MAX. DOOR OPENING	DIM. A	DIM. B
110	7 1/2"	15-1/2"
160°	4 1/2"	11 1/8"



**NOTES**

1. 12 GAUGE MINIMUM REINFORCEMENT REQUIRED ON METAL DOORS AND FRAMES.
2. RIGHT HAND DOOR SHOWN, LEFT HAND OPPOSITE DOOR WILL OPEN TO 180° IF CLOSER COVER DOES NOT INTERFERE WITH ADJACENT WALL
3. A 281-J PLATE MAY BE USED WHEN COVER IS VISIBLE THROUGH GLASS

<b>SARGENT</b> Manufacturing Company 100 Sargent Drive New Haven, CT 06511	
281 SERIES DOOR CLOSER WITH O10 OR H10 HEAVY DUTY STANDARD ARM	RELEASE DATE A7956 B
	TEMPLATE NO. A7956 B

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