

281 DOOR CLOSER WITH P10/PH10 ARM INSTALLATION INSTRUCTIONS

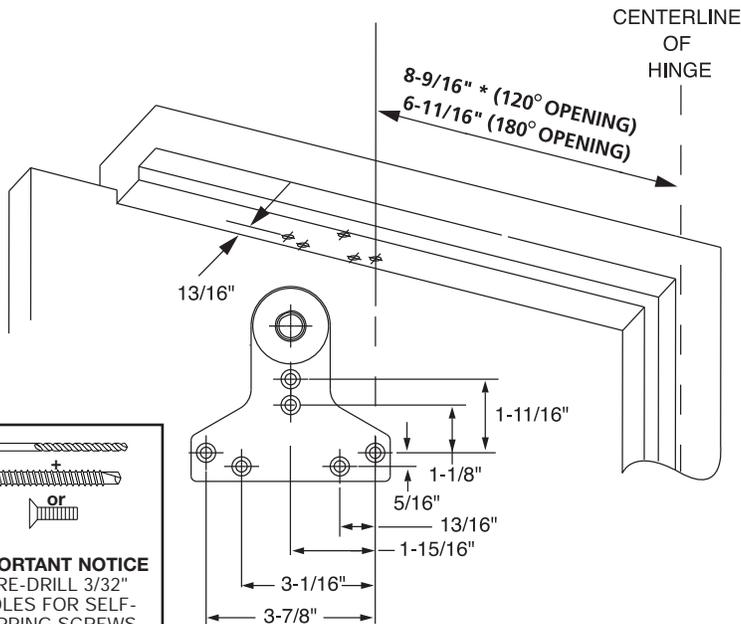
281 SERIES ADJUSTABLE FROM SIZE 1 THRU 6
CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY

FOR ASSISTANCE, CALL SARGENT AT 1-800-727-5477 or www.sargentlock.com

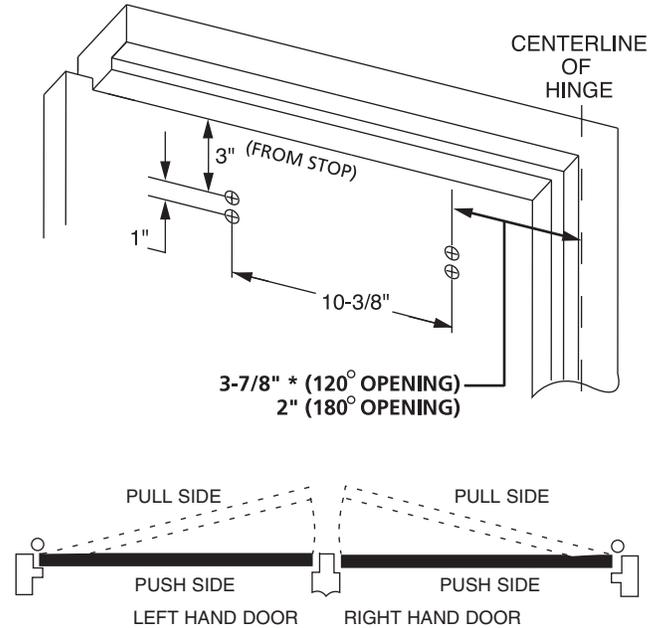


1 LOCATE AND MARK HOLES USING FULL SIZE TEMPLATE OR MEASURE AS SHOWN BELOW

RIGHT HAND SHOWN, LEFT HAND OPPOSITE



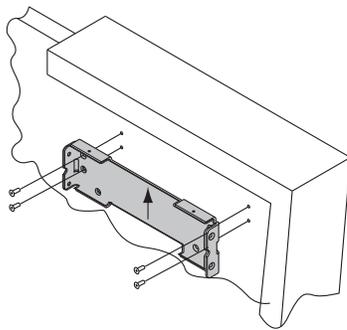
IMPORTANT NOTICE
PRE-DRILL 3/32" HOLES FOR SELF-TAPPING SCREWS OR TAP #12-24 FOR MACHINE SCREWS



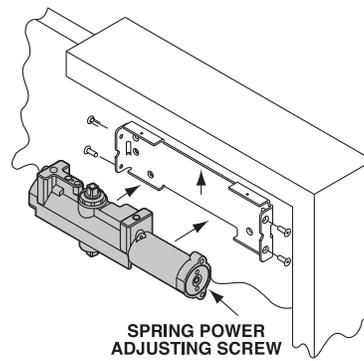
281 CLOSERS AND P10 ARM ARE NON-HANDED
ONLY THE PH10 ARM IS HANDED

* NOTE: FOR MAXIMUM POWER, INSTALL FOR 120° OPENING
FOR CENTER HUNG PIVOTS, CONSULT FACTORY FOR TEMPLATING

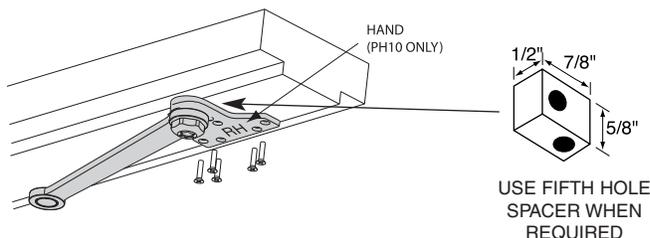
2 INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS. MOUNT CLOSER WITH SPRING ADJUSTING SCREW TOWARDS HINGE.



DRILL & TAP. USE SCREWS PROVIDED OR USE MORTISE NUTS WHEN REQUIRED

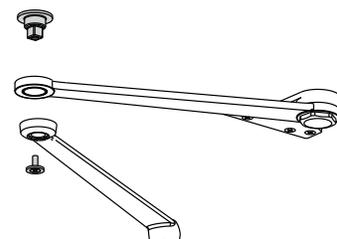


3 ATTACH FOOT BRACKET TO DOOR STOP



IMPORTANT: USE A MINIMUM OF 5 SCREWS

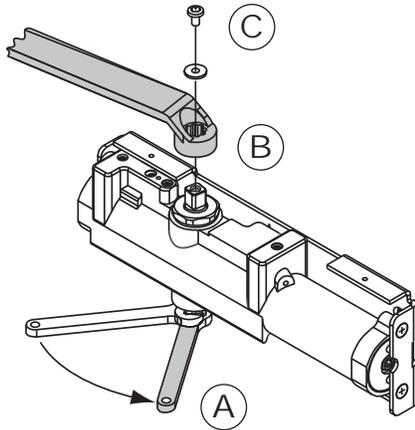
3A ALTERNATE: PRE-ASSEMBLE ARM PRIOR TO ATTACHING TO STOP



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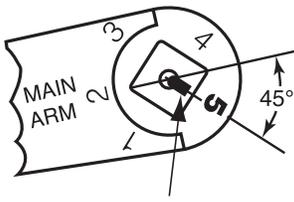
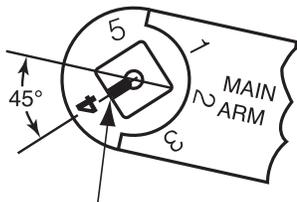
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- * A. ROTATE BOTTOM SPINDLE WITH WRENCH
- B. ASSEMBLE MAIN ARM WITH INDEX MARK POSITIONED AS SHOWN
- C. SECURE WITH SCREW AND WASHER



LEFT HAND DOOR

RIGHT HAND DOOR



INDEX MARK ON SPINDLE

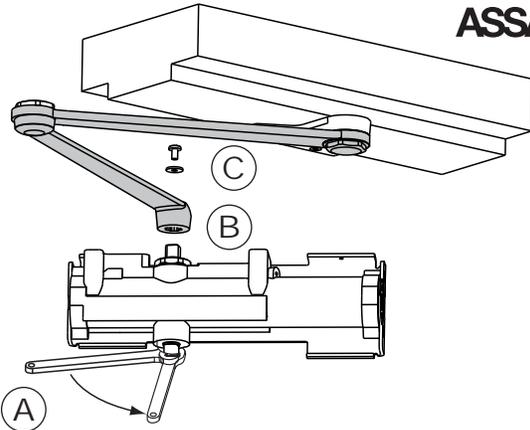
INDEX MARK ON SPINDLE

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

4A

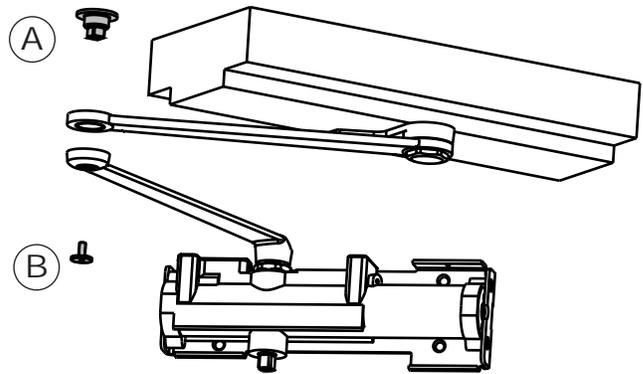
ALTERNATE METHOD FOR ATTACHING PREASSEMBLED ARM

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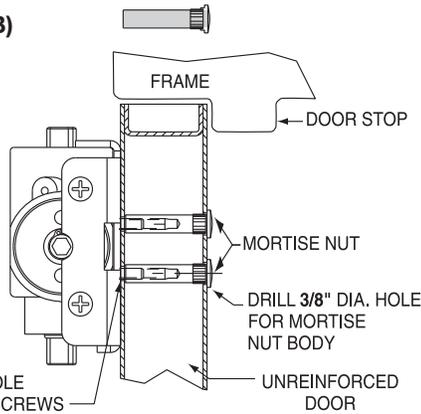
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- A. OPEN DOOR AND INSTALL PIVOT AS SHOWN
- B. USE SCREW TO SECURE PIVOT AND ARMS AS SHOWN



ACCESSORIES

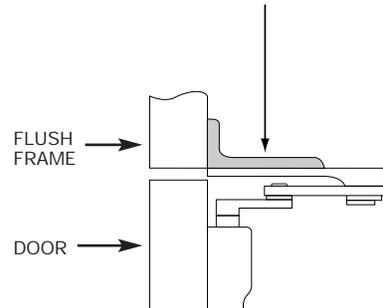
OPTIONAL: USE MORTISE NUTS (#4TB) WHEN THRU-BOLTING IS REQUIRED



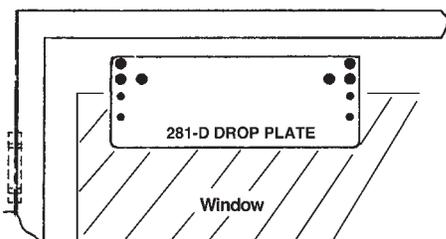
SEE PAGES 1 AND 4 FOR TEMPLATING DIMENSIONS

DRILL 1/4" DIA. HOLE FOR MOUNTING SCREWS

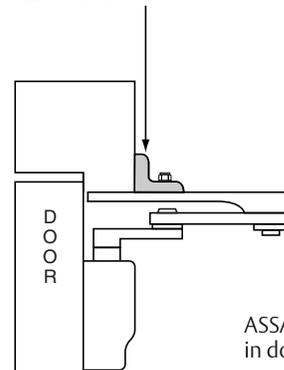
125 VF BRACKET FOR FLUSH FRAME AND DOOR CONDITION



281 DROP PLATE USED WITH NARROW TOP RAILS



125 V BRACKET FOR NARROW FRAME CONDITION



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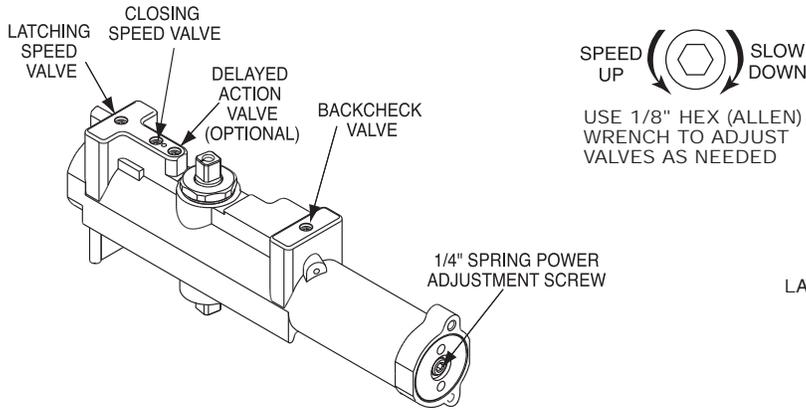
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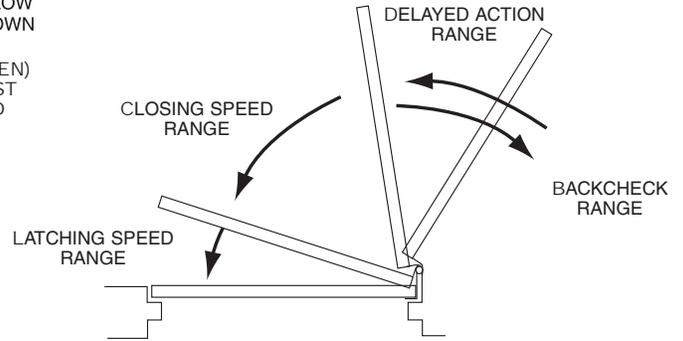
FINAL ADJUSTMENTS

- 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

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SPEED UP (↻) SLOW DOWN (↻)
USE 1/8" HEX (ALLEN) WRENCH TO ADJUST VALVES AS NEEDED

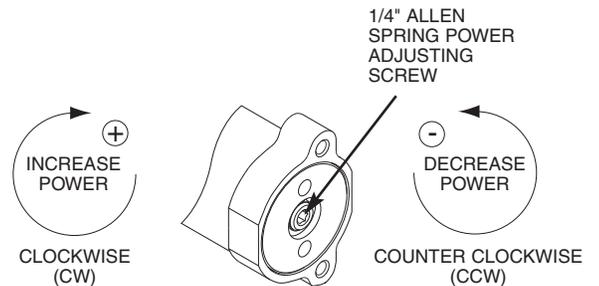


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Adjust closing power to the minimum force required to reliably close and latch door

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

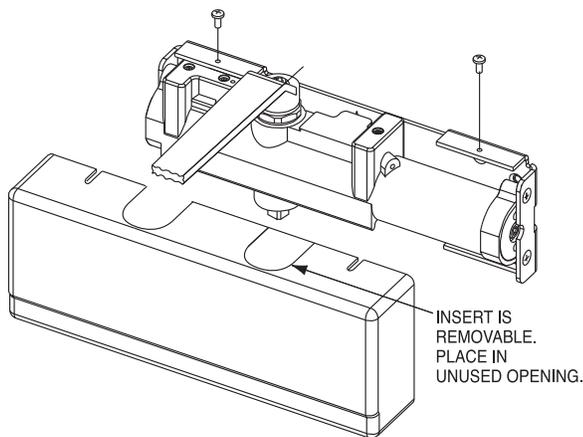
DOOR WIDTH (INCHES)	EXTERIOR DOORS	INTERIOR DOORS
24-30	TURN NUT 2-7 ↻	—
30-36	TURN NUT 7-11 ↻	TURN NUT 1-5 ↻
36-44	TURN NUT 11-15 ↻	FACTORY SET
44-48	TURN NUT 15-17 ↻	TURN NUT 1-8 ↻
Over 48	Up to 19 as Req. ↻	8 and up as Req. ↻



ADJUSTING DOOR TO CLOSE DUE TO HIGH DRAFT CONDITIONS MAY EXCEED ADA STANDARDS. CONSULT LOCAL ORDINANCES WHEN FIRE DOORS ARE INVOLVED.

8

INSTALL COVER WITH TWO SCREWS AS SHOWN

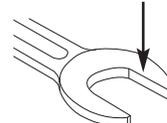


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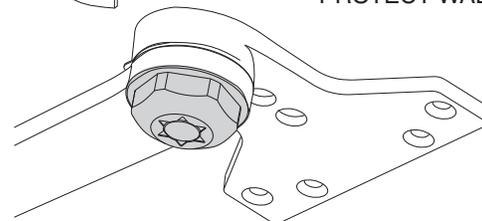
ADJUSTMENT OF HOLD OPEN ARM (PH10 ARM ONLY)

1-3/8" WRENCH



SLIGHT TIGHTENING OR LOOSENING OF HOLD OPEN NUT CHANGES HOLDING POSITION OF DOOR

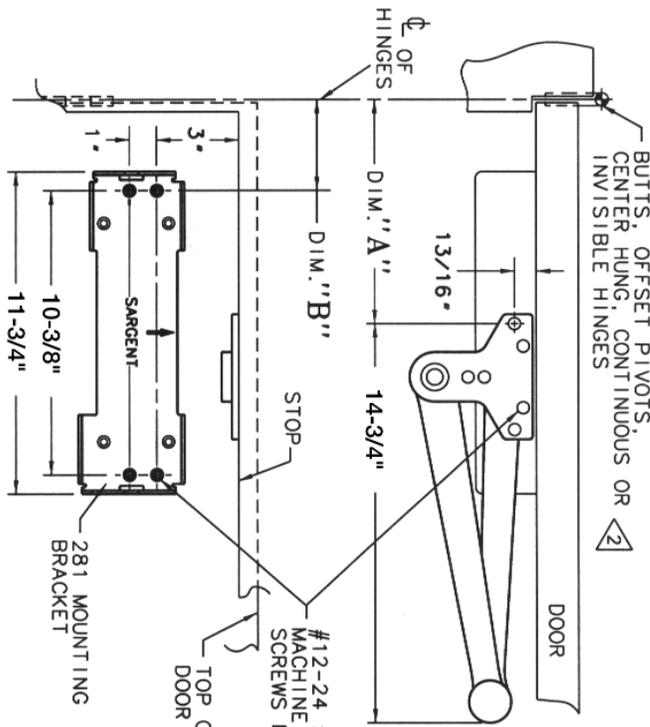
NOTE: ALWAYS USE A DOOR STOP TO STOP DOOR AND TO PROTECT WALL AND TRIM



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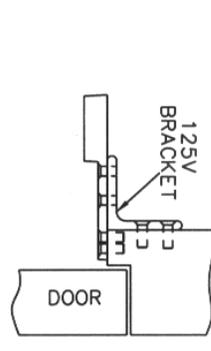
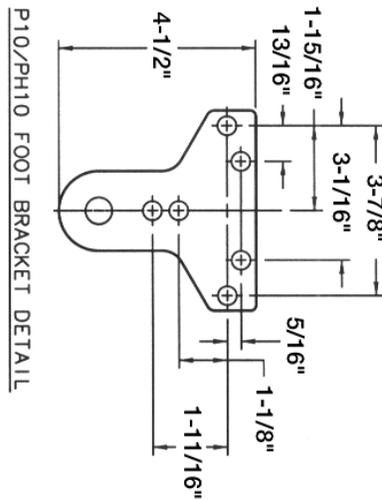
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MAX. DEG. OF OPENING	"A"	"B"
120°	8-9/16"	3-7/8"
180°	6-11/16"	2"



NOTES:

1. REINFORCE METAL DOORS AND FRAMES PER ANSI A250.8 AND SDI-100 STANDARDS, 12 GAUGE RECOMMENDED.
2. DIM. "A" AND "B" ARE TAKEN FROM THE EDGE OF THE DOOR FOR INVISIBLE HINGES.
3. FOR THIN RAIL DOORS, USE 281-D DROP PLATE. SEE TEMPLATE A7244.
4. 281-J COVER PLATE MAY BE USED WHEN CLOSER IS VISIBLE THROUGH GLASS.
5. LEFT HAND DOOR SHOWN, RIGHT HAND OPPOSITE.
6. IF DOOR CLOSER BODY INTERFERES WITH LIGHT KIT, USE 281-B PLATE. SEE DATA SHEET A7242 FOR PLATE DIMENSIONS ONLY.
7. WHEN SOFFIT IS LESS THAN 3" USE A 125V BRACKET.



USE 125V BRACKET (NOT SHOWN) FOR FLUSH FRAME CONDITIONS

SPACER MAY BE REQUIRED FOR NARROW STOPS
P10/PH10 FOOT BRACKET

