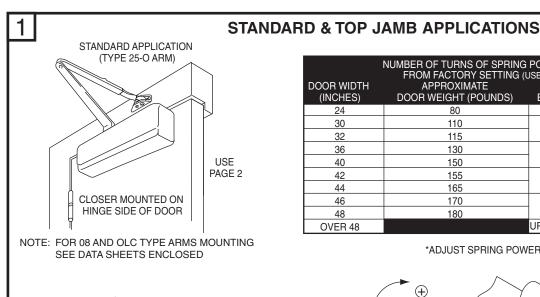
MODEL 281 POWERGLIDE SERIES INSTRUCTIONS FOR INSTALLING SARGENT DOOR **CLOSERS WITH REGULAR ARMS (WITHOUT HOLDER)**



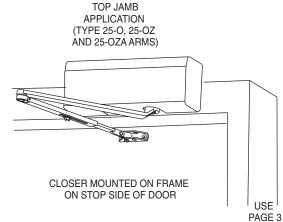
281 SERIES NON SIZED ADJUSTABLE SIZES 1 THRU 6 CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY OR DAMAGE. FOR ASSISTANCE, CALL SARGENT AT 1-800-727-5477.

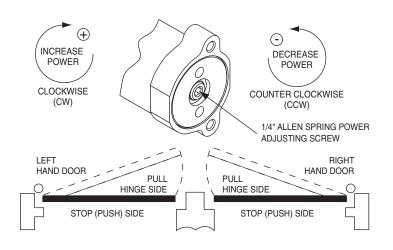




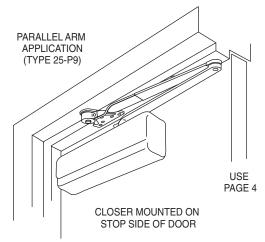
| NUMBER OF TURNS OF SPRING POWER ADJUSTING SCREW FROM FACTORY SETTING (USE CHART AS GUIDE ONLY) | | | |
|---|----------------------------------|-----------------------|---------------------|
| DOOR WIDTH (INCHES) | APPROXIMATE DOOR WEIGHT (POUNDS) | 281 EXTERIOR DOORS | INTERIOR DOORS |
| 24 | 80 | FACTORY SET | (3.) |
| 30 | 110 | 1-5 CW | |
| 32 | 115 | 1-5 CVV | |
| 36 | 130 | 5-8 CW | 1-5 CCW |
| 40 | 150 | J-0 OVV | |
| 42 | 155 | 0 10 CW | FACTORY SET |
| 44 | 165 | 8-13 CW | |
| 46 | 170 | 10.1F.OW | 1-5 CW |
| 48 | 180 | 13-15 CW | 1-5 CW |
| OVER 48 | | UP TO 19 CW AS REQ. | 5 CW AND UP AS REQ. |

*ADJUST SPRING POWER ACCORDING TO CHART





PARALLEL APPLICATION ONLY



| DOOR WIDTH (INCHES) | NUMBER OF TURNS OF SPRIN FROM FACTORY SETTING (I APPROXIMATE DOOR WEIGHT (POUNDS) | | |
|------------------------|--|---------------------|---------------------|
| 24 | 80 | 2-7 CW | |
| 30 | 110 | 2-7 000 | |
| 32 | 115 | 7-11 CW | 4.5.0014 |
| 36 | 130 | 7-11 000 | 1-5 CCW |
| 40 | 150 | | FACTORY SET |
| 42 | 155 | 11-15 CW | FACTORY SET |
| 44 | 165 | | |
| 46 | 170 | 15 17 OW | 4.0.014 |
| 48 | 180 | 15-17 CW | 1-8 CW |
| OVER 48 | | UP TO 19 CW AS REQ. | 8 CW AND UP AS REQ. |
| | | - | |

*IF INTERIOR DOORS DO NOT HAVE TO COMPLY WITH ADA & REQUIREMENTS. EXTERIOR DOOR SETTINGS ARE RECOMMENDED. WHERE STRONG DRAFTS EXIST, INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTMENT SCREW CLOCKWISE. IF NECESSARY, REDUCE SPRING POWER BY TURNING SCREW COUNTERCLOCKWISE.

281 STANDARD APPLICATION FOR INSTRUCTIONS

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING

| ARM TYPE | MOUNTING | MAX. DOOR OPENING | DIM. A | DIM. B |
|-----------------------------|-----------|----------------------|-----------|-----------|
| REGULAR ARM NO HOLDER | STANDARD | 120° | 7" | 12-1/8" |
| | ALTERNATE | £ 160° € | 5" | 10-1/8" |

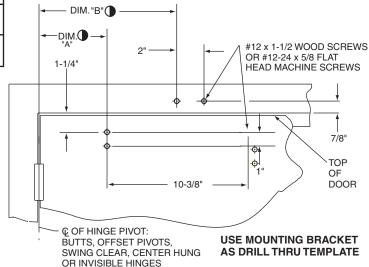
→ IF BUTT, FRAME AND WALL CONDITIONS PERMIT DOOR WILL
OPEN 180°

1 RIGHT HAND DOOR SHOWN. LEFT HAND DOOR OPPOSITE.

2— THIS DIMENSION IS TAKEN FROM HINGE EDGE OF DOOR FOR INVISIBLE HINGES.

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



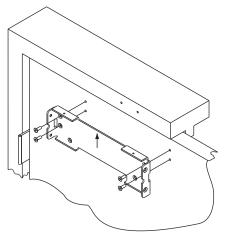


SARGENT

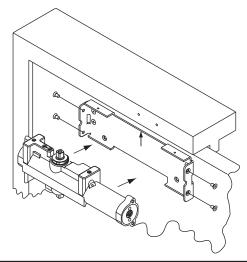
ASSA ABLOY

Α

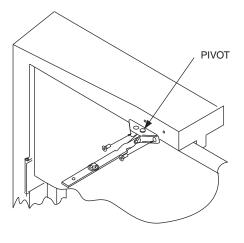
INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS AND INSTALL CLOSER WITH SPRING ADJUSTMENT SCREW AWAY FROM HINGE.



RIGHT HAND DOOR SHOWN

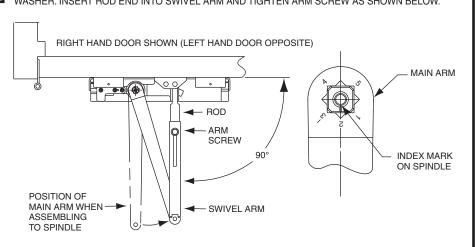


B ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE.



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ATTACH ARM WITH INDEX MARK ON SPINDLE ALIGNED AS SHOWN. SECURE WITH SCREW AND WASHER. INSERT ROD END INTO SWIVEL ARM AND TIGHTEN ARM SCREW AS SHOWN BELOW.



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281 TOP JAMB APPLICATION INSTRUCTIONS

SARGENT

ASSA ABLOY

IMPORTANT: USE ALTERNATE MOUNTING IF DOOR CAN OPEN BEYOND LIMITS SHOWN FOR STANDARD MOUNTING

| ARM TYPE | REVEAL DEPTH | DIM. A | MAX. DOOR OPENING |
|-------------|-----------------|-----------|----------------------|
| "O" ARM | 0" TO 2" | 9-5/16" | 180° |
| "OZ" ARM | 2-1/8" TO 5" | 10-1/8" | 140° . |
| "OZA" ARM | 5-1/8" TO 5" | 10-15/16" | 140° |

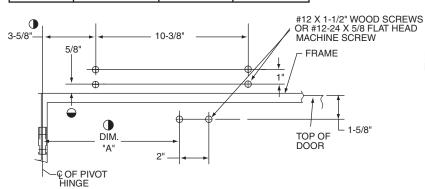
1 LEFT HAND DOOR SHOWN, RIGHT HAND DOOR OPPOSITE.

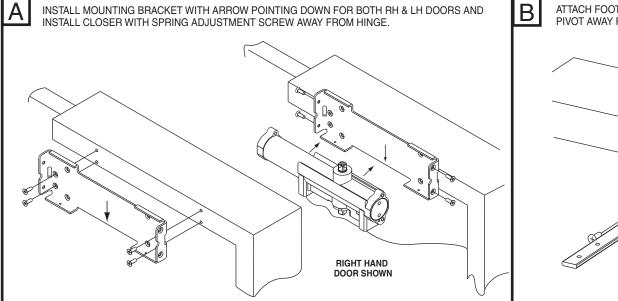
THESE DIMENSIONS MAYBE REDUCED TO 3/8"
MIN. IF RAIL ON TOP CASING IS NARROW OR
LOW CEILING CONDITION EXISTS. CLOSER
FOOT SHOULD BE MOVED ACCORDINGLY.

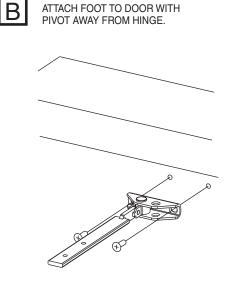
THIS DIMENSION IS TAKEN FROM HINGE EDGE OF DOOR FOR INVISIBLE HINGES.

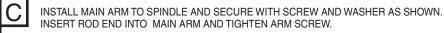
DRILL & TAP AND USE SCREWS PROVIDED OR USE MORTISE NUTS WHEN REQUIRED.

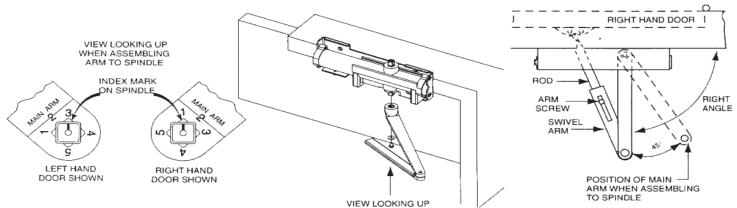
USE MOUNTING BRACKET AS A DRILL-THRU TEMPLATE











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281 PARALLEL ARM APPLICATION INSTRUCTIONS

SARGENT

| MAX. DOOR OPENING | DIM. A | DIM. B |
|----------------------|-----------|-----------|
| 120° | 4-1/2" | 10-1/2" |
| 180° | 1-5/8" | 7-5/8" |

LEFT HAND DOOR SHOWN. RIGHT HAND $ldsymbol{oxedsymbol{oxed}}$ DOOR DIMENSION OPPOSITE.

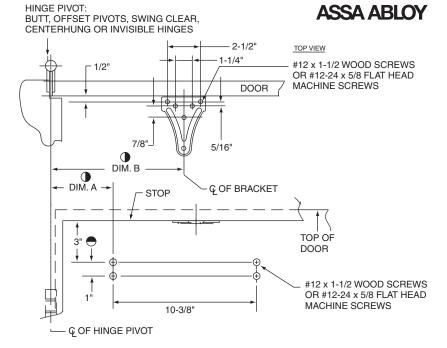
DO NOT USE THIS MOUNTING FOR "SWING CLEAR" HINGES.

THIS DIMENSION IS TAKEN FROM HINGE EDGE OF DOOR FOR INVISIBLE HINGES.

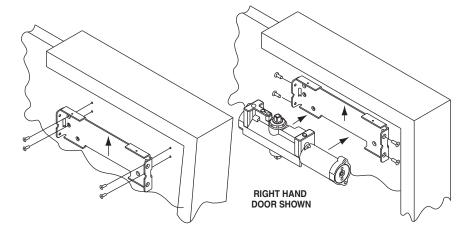
MAY BE REDUCED BY 1/2" TO AVOID DOOR TRIM.

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

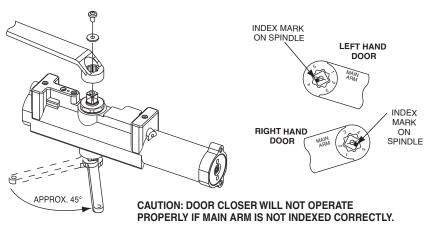
REMOVE BACKING FROM SELF ADHESIVE TAPE AND USE BRACKET AS DRILL THROUGH TEMPLATE.



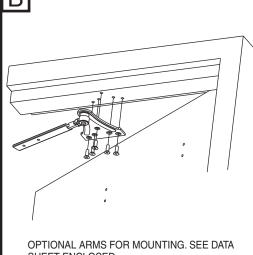
INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS AND INSTALL CLOSER WITH SPRING ADJUSTING SCREW TOWARDS HINGE.



USING WRENCH ON BOTTOM END OF SPINDLE, ROTATE 45° AND ASSEMBLE MAIN ARM TO CLOSER AS SHOWN, AND THEN INSERT ROD END INTO SWIVEL ARM AND TIGHTEN ARM SCREW POSITIONING ARM 1/2" AWAY FROM DOOR.

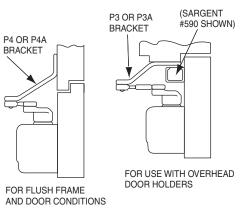


P4A BRACKET IS USED WITH OVERHEAD HOLDERS



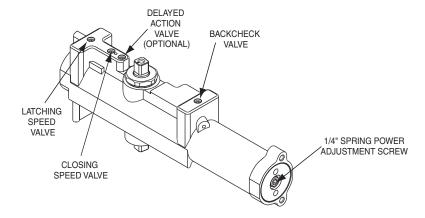
ATTACH FOOT BRACKET TO FRAME STOP.

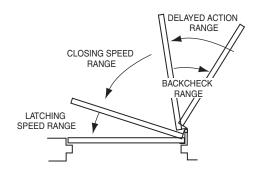
SHEET ENCLOSED.



FINAL ADJUSTMENT AND REGULATING PROCEDURE

SARGENT ASSA ABLOY





REGULATING DOOR SPEED AND LATCHING SPEED AS NEEDED.

USE HEX SOCKET (1/8" ALLEN) WRENCH AND TURN VALVES CLOCKWISE TO SLOW DOWN OR COUNTER CLOCKWISE TO SPEED UP DOOR MOVEMENT.

FASTER (+)

Α

SLOWER (-) B REGULATING BACKCHECK

TO REGULATE THE INTENSITY OF BACKCHECK ACTION TURN VALVE CLOCKWISE TO INCREASE OR COUNTER CLOCKWISE TO DECREASE CHECKING.

CAUTION: SET VALVE FOR SLIGHT CUSHIONING EFFECT. IT IS DAMAGING TO THE CLOSER IF THE CHECKING ACTION IS TOO ABRUPT. NEVER USE BACKCHECK AS A DOOR STOP.

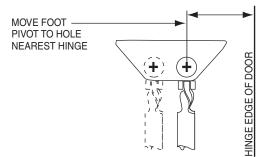
ALWAYS USE A DOOR STOP TO STOP THE DOOR.

FOR MODELS WITH OPTIONAL DELAYED ACTION FEATURE

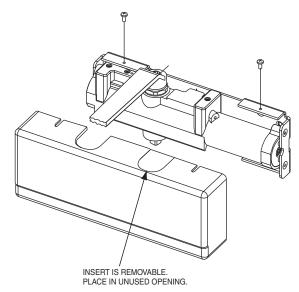
"DELAYED ACTION" PROVIDES SLOW DOOR CLOSING THROUGH DELAYED ACTION RANGE

TURN VALVE CLOCKWISE TO SLOW DOWN OR COUNTER CLOCKWISE TO SPEED UP DOOR MOVEMENT

ADJUSTING FOOT FOR ADDITIONAL CLOSING POWER (FOR STANDARD AND TOP JAMB APPLICATIONS ONLY)



INSTALL COVER WITH TWO SCREWS AS SHOWN.



USING MORTISE NUTS WITH SARGENT DOOR CLOSER



- 1. SEE INSTRUCTIONS OR DATA SHEET PACKED WITH DOOR CLOSER FOR DIMENSIONS LOCATING THE CLOSER BODY AND FOOT ON DOOR AND FRAME.
- 2. MORTISE NUT SHOWN IS DESIGNED FOR AN UNREINFORCED METAL DOOR.
- 3. FOR TOP JAMB AND CORNER BRACKET APPLICATIONS: THE DOOR CLOSER FOOT WILL BE ATTACHED TO THE DOOR IN A MANNER SIMILAR TO THAT SHOWN FOR MOUNTING THE CLOSER BODY.
- 4. FOR DOORS 2-1/4" THICK: MORTISE NUT SHOWN FOR 1-3/4" THICK DOORS WILL BE FURNISHED ALONG WITH APPORPRIATE LENGTH THRU-BOLTS.

 DOOR CONSTRUCTION MUST PROVIDE A BRIDGE TYPE REINFORCEMENT TO PREVENT THE DOOR RAIL FROM COLLAPSING WHEN THRU-BOLTS ARE TIGHTENED.

