

# INSTALLATION INSTRUCTIONS 281 DOOR CLOSERS WITH OD, ODB, HD, HDB ARMS

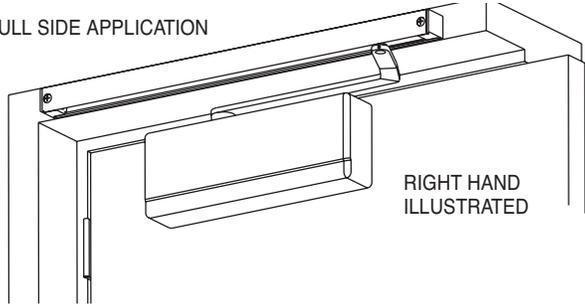
# SARGENT®

# ASSA ABLOY

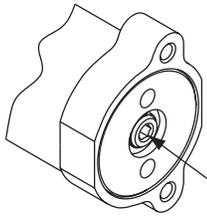
281 NON-SIZED ADJUSTABLE FROM SIZE 2 THRU 5

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

PULL SIDE APPLICATION



CLOCKWISE (CW)

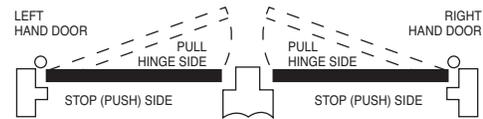


COUNTER CLOCKWISE (CCW)

1/4" ALLEN SPRING POWER ADJUSTING SCREW\*

DOOR WIDTH (INCHES)	APPROXIMATE DOOR WEIGHT (POUNDS)	NUMBER OF TURNS OF SPRING ADJUSTING NUT
24	80	1-5 CCW
30	110	FACTORY SET
32	115	
36	130	
40	150	1-5 CW
42	155	
44	165	7-12 CW
46	170	
48	180	

WHERE STRONG DRAFTS EXIST, INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTMENT SCREW CLOCKWISE. IF NECESSARY, REDUCE SPRING POWER BY TURNING SCREW COUNTERCLOCKWISE.

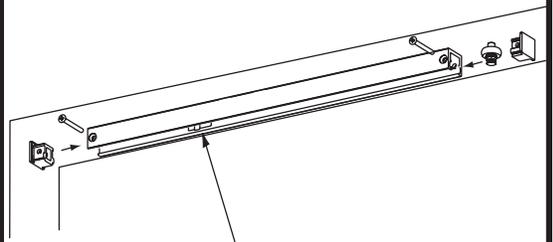
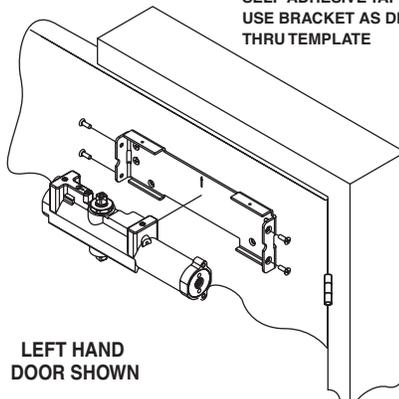
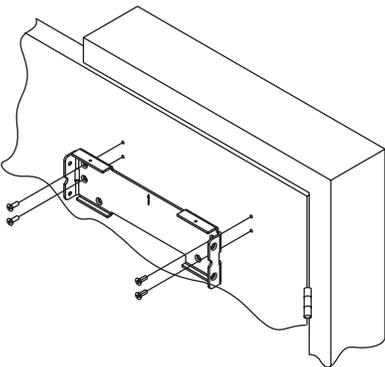


**A** USE DIMENSION SHOWN ON DATA SHEET A7420 ON PAGE 4 TO LOCATE AND PREPARE FOR MOUNTING SCREWS.

**B** INSTALL MOUNTING BRACKET WITH ARROW POINTING UP FOR BOTH RH & LH DOORS. INSTALL CLOSER WITH SPRING ADJUSTING SCREW HINGE. (USE TEMPLATE ENCLOSED TO LOCATE AND DRILL HOLES)

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

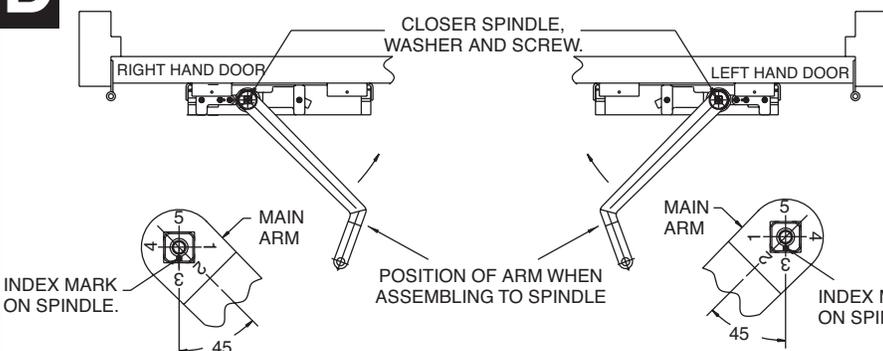
**C** INSERT ROLLER AND END CAPS INTO TRACK AND ATTACH TRACK TO FRAME.



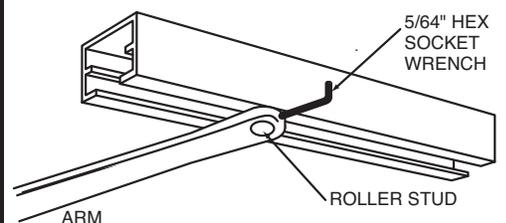
**NOTE:** WHEN HOLD OPEN OR BUMPER OPTIONS ARE USED, MOUNT TRACK WITH DEVICE TOWARD HINGE EDGE OF DOOR.

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

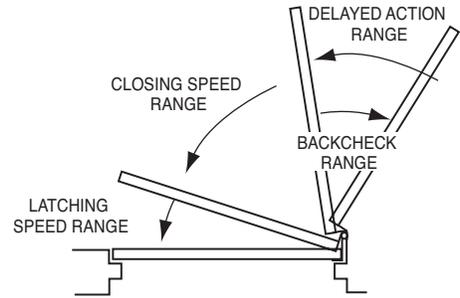
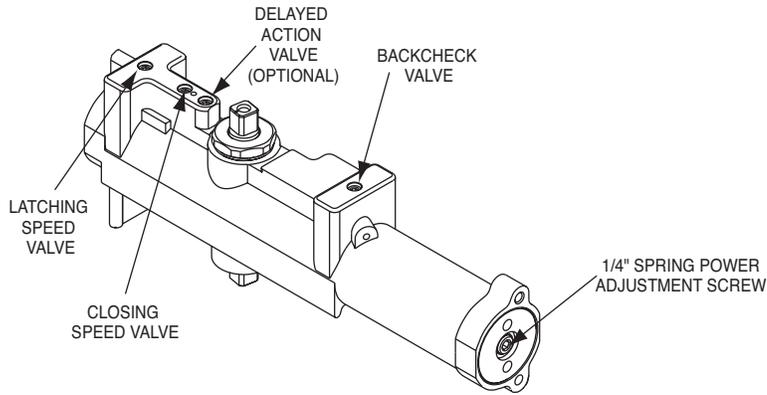
**D** ASSEMBLE ARM TO CLOSER WITH INDEX MARK ON END OF SPINDLE 45 FROM AXIS OF ARM AS ILLUSTRATED BELOW. USE WASHER AND SCREW TO RETAIN ARM.



**E** CONNECT ARM TO ROLLER STUD USING WRENCH, BACK OUT ARM SET SCREW, OPEN DOOR 45 AND FIT ARM ON TO ROLLER STUD. TIGHTEN SET SCREW SECURELY.



# FINAL ADJUSTMENT AND REGULATING PROCEDURE



## A 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.



## B REGULATING BACKCHECK

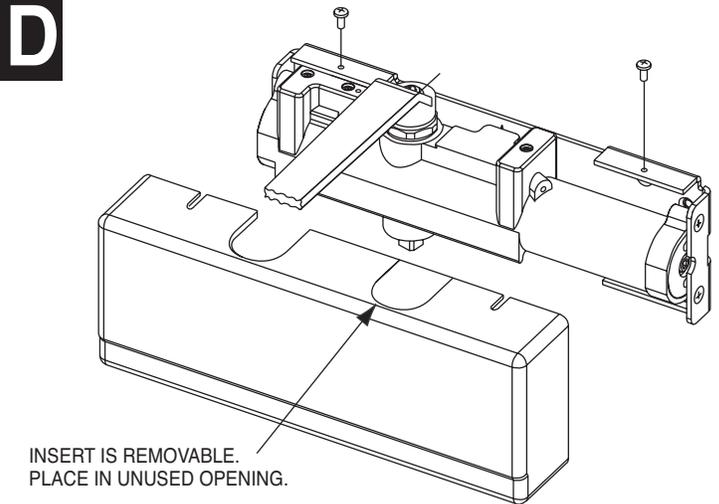
TO REGULATE THE INTENSITY OF BACKCHECK ACTION TURN VALVE CLOCKWISE TO INCREASE OR COUNTER CLOCKWISE TO DECREASE CHECKING.

**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.**

## C 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.



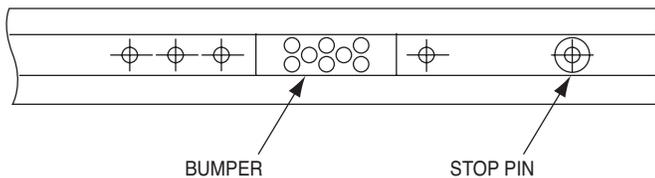
INSERT IS REMOVABLE. PLACE IN UNUSED OPENING.

## OPTIONS

BUMPER ASSISTS BACKCHECK IN CUSHIONING THE OPENING FOR DOOR. IT IS NOT INTENDED TO REPLACE AN AUXILIARY DOOR STOP.

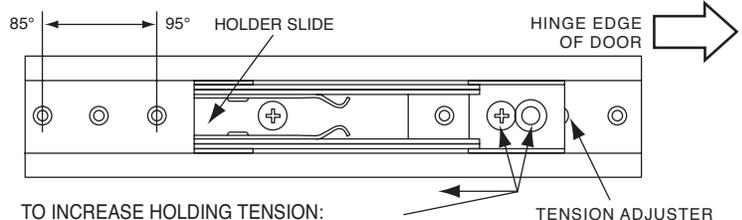
TO CHANGE BUMPER STOP LOCATION—REMOVE MOUNTING SCREW AND RELOCATE BUMPER STOP AT DESIRED POSITION.

NOTE: REMOVE STOP PIN TO INCREASE DEGREE OF DOOR OPENING.



FOR MODELS HAVING HOLDER ARMS

THE HOLDER DEVICE IS SET FOR 95° DOOR HOLDING POSITION AT THE FACTORY AND THE HOLDER TENSION IS SET AT THE LIGHTEST OF THE THREE SETTINGS.



TO INCREASE HOLDING TENSION: REMOVE MOUNTING SCREW AND MOVE TENSION ADJUSTER TOWARD HOLDER SLIDE BY USING EITHER OF THE TWO HOLE LOCATIONS. THREE POSITIONS OF TENSION ARE POSSIBLE.

# USING MORTISE NUTS WITH SARGENT DOOR CLOSER

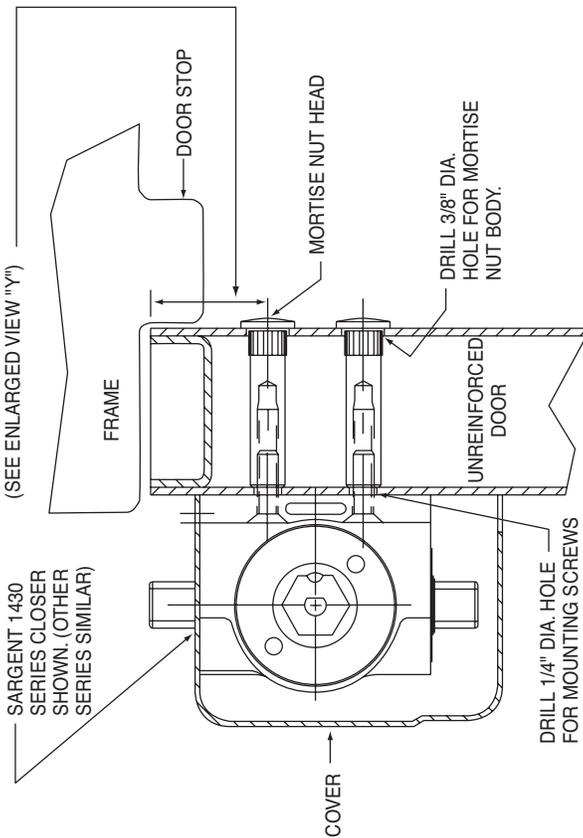


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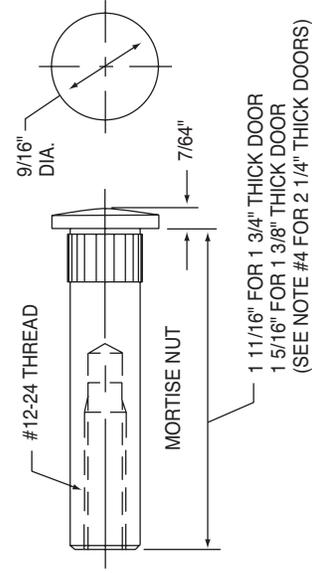
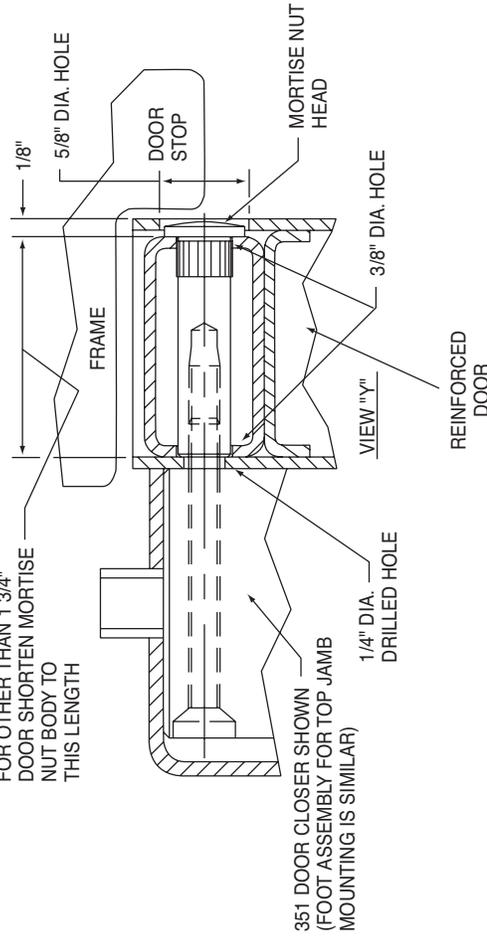
A7422A

SEE NOTE #1 BELOW FOR DIMENSION INFORMATION. IF A DIMENSION LESS THAN 7/8" IS USED, THE DOOR STOP MUST BE CUT TO CLEAR THE MORTISE NUT HEAD OR THE MORTISE NUT HEAD MUST BE RECESSED. (SEE ENLARGED VIEW "Y")



## SARGENT 351 SERIES SHOWN

FOR OTHER THAN 1 3/4" DOOR SHORTEN MORTISE NUT BODY TO THIS LENGTH



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

1 11/16" FOR 1 3/4" THICK DOOR  
1 5/16" FOR 1 3/8" THICK DOOR  
(SEE NOTE #4 FOR 2 1/4" THICK DOORS)

