

INSTALLATION INSTRUCTIONS

1430 / 1431 Door Closers with Fusible Link Holder Arms

1430 ADJUSTABLE FROM SIZE 3 THRU 6

1431 ADJUSTABLE FROM SIZE 1 THRU 4.  REDUCED OPENING FORCE FOR PHYSICALLY HANDICAPPED

NOTE: DOOR CLOSER SERIES, WEEK AND YEAR OF PRODUCTION ARE STAMPED ON END CAP.

1400 – DESIGNATE DOOR CLOSERS ADJUSTABLE SIZES 3 THRU 6.

1401 – DESIGNATE DOOR CLOSERS ADJUSTABLE SIZES 1 THRU 4.

FOR INSTALLATION ASSISTANCE CALL SARGENT AT 1-800-727-5477 • www.sargentlock.com

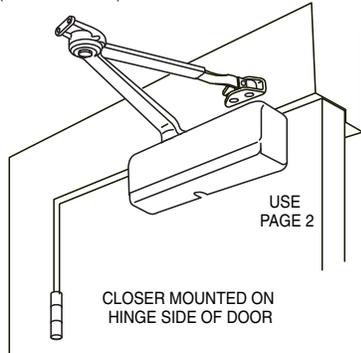
SARGENT®

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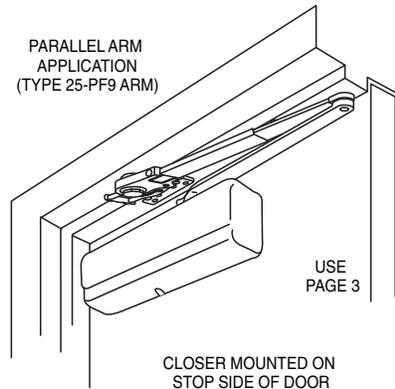
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SELECT PROPER APPLICATION FROM ILLUSTRATIONS BELOW AND FOLLOW INSTRUCTIONS ON GIVEN PAGE

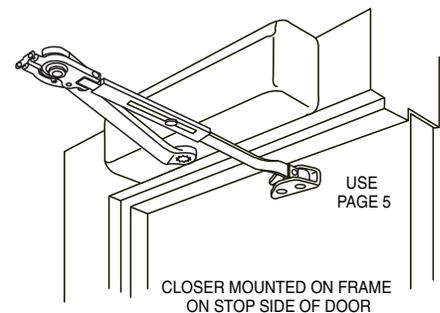
STANDARD APPLICATION
(TYPE 25-F ARM)



PARALLEL ARM APPLICATION
(TYPE 25-PF9 ARM)



TOP JAMB APPLICATION
(ARM TYPES 25-F, 25-FZ, 25-FZA)



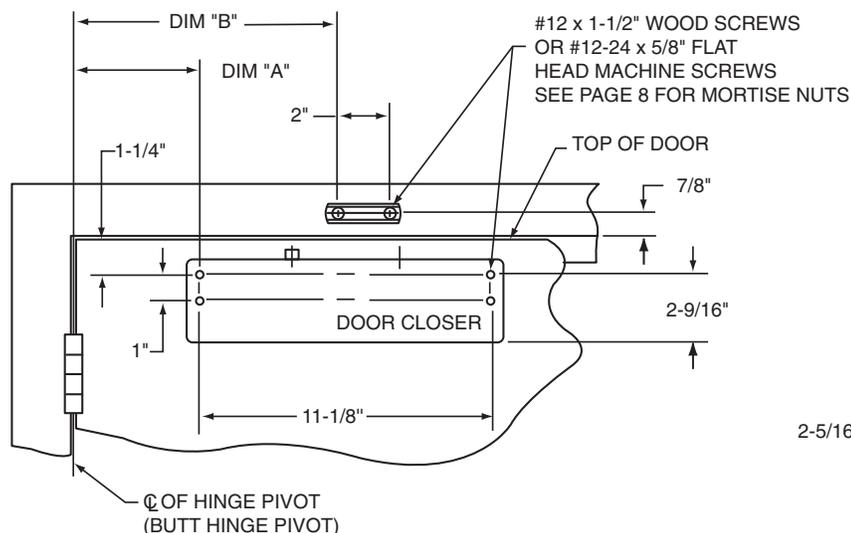
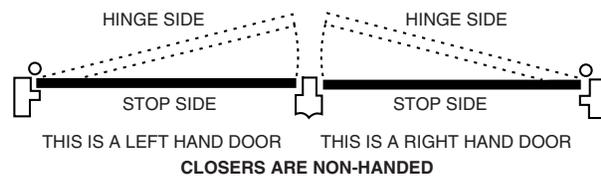
STANDARD APPLICATION

INSTALLATION INSTRUCTIONS

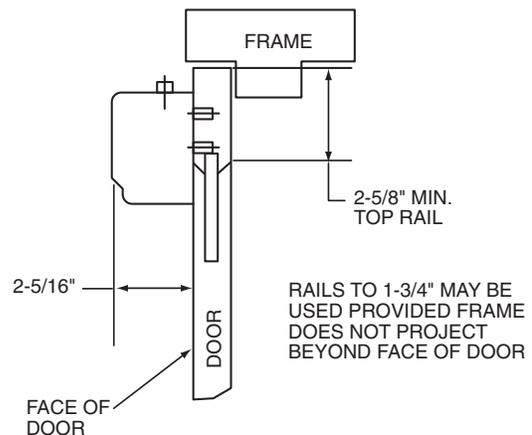
MAX DOOR OPENING	DIM. A	DIM. B
120°	6 3/4"	12 1/8"
160°**	4 3/4"	10 1/8"

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

CLOSER MOUNTED ON HINGE SIDE OF A DOOR



RIGHT HAND DOOR ILLUSTRATED
SAME DIMENSIONS APPLY FOR LEFT HAND DOOR.



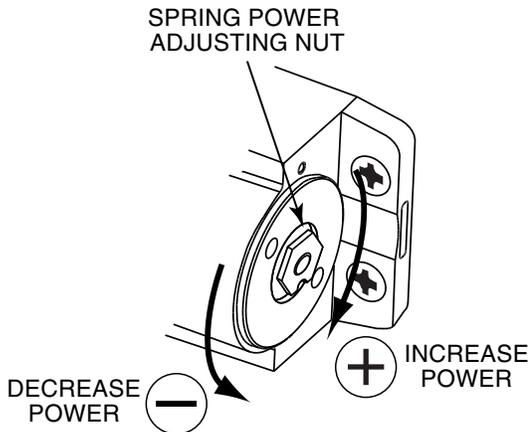
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SPRING ADJUSTMENT
ADJUST SPRING POWER ACCORDING TO CHART.

⌚ CW-CLOCKWISE ⌚ CCW-COUNTER CLOCKWISE

NUMBER OF TURNS OF SPRING POWER ADJUSTING NUT*
USE CHART AS GUIDE ONLY

DOOR WIDTH (INCHES)	APPROXIMATE DOOR WEIGHT (POUNDS)	1430 DOOR CLOSERS	1431* DOOR CLOSERS
24	80	1-3 CCW	1-3 CCW
30	110		
32	115		
36	130	FACTORY** SET	FACTORY** SET
40	150		
42	155	1-3 CW	7-10 CW
44	165	4-7 CW	
46	170	7-10 CW	
48	180		
OVER 48		7-10 CW	

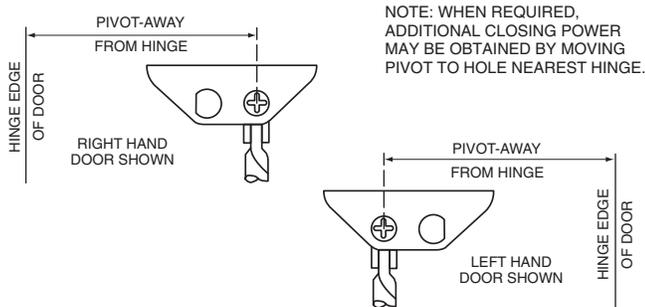


* FOR EXTERIOR DOORS USE 1430 CLOSERS ONLY.
** CLOSERS ARE FACTORY SET FOR INTERIOR DOORS.

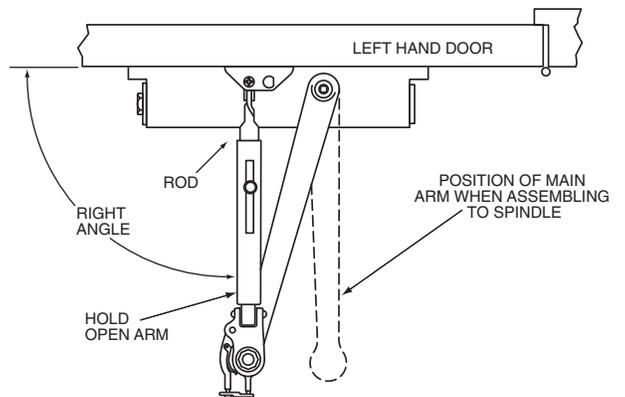
FOR EXTERIOR DOORS AND WHERE STRONG DRAFT EXISTS INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTING NUT CLOCKWISE. IF NECESSARY, DECREASE SPRING POWER TO MEET REQUIREMENTS BY TURNING SPRING ADJUSTING NUT COUNTER CLOCKWISE.

A USING ILLUSTRATION ON A PAGE 1 SELECT DEGREE OF DOOR OPENING DESIRED AND ATTACH CLOSER TO DOOR WITH SHORT END TOWARD HINGE

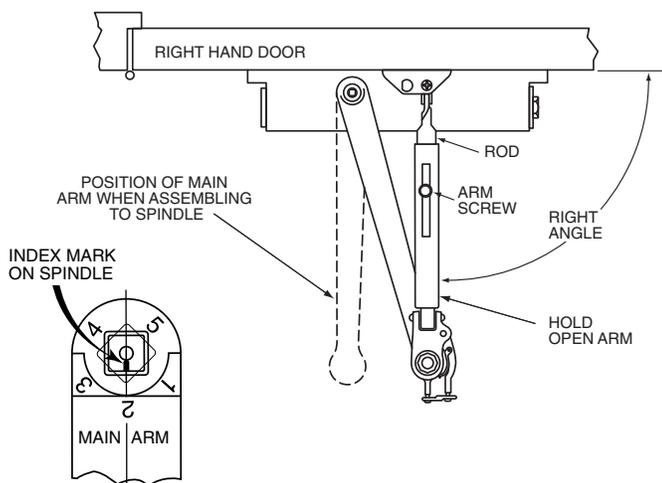
B ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE AS ILLUSTRATED BELOW.



D OPEN DOOR AND INSERT RECTANGULAR ROD INTO HOLD OPEN ARM THEN CLOSE THE DOOR AND TIGHTEN ARM SCREW SECURELY WHEN HOLD OPEN ARM IS AT RIGHT ANGLE TO DOOR.

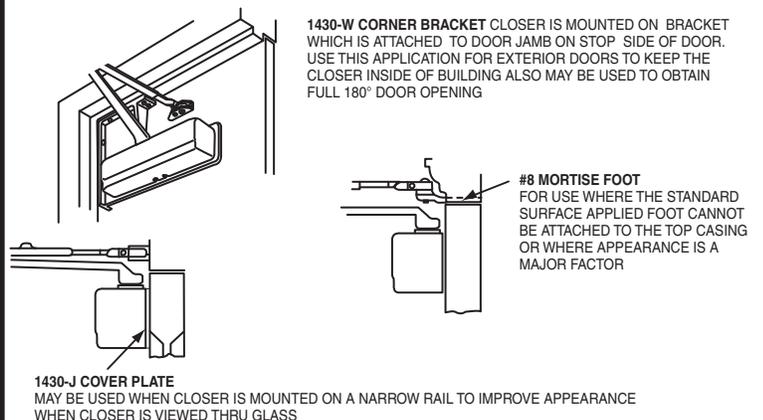


C ASSEMBLE MAIN ARM TO CLOSER WITH INDEX MARK ON SPINDLE ALIGNED AS SHOWN BELOW. ATTACH ARM WITH WASHER AND SCREW.



E ADJUST AND REGULATE DOOR CLOSER AS DIRECTED ON PAGE 7

ACCESSORIES INFORMATION



MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERED

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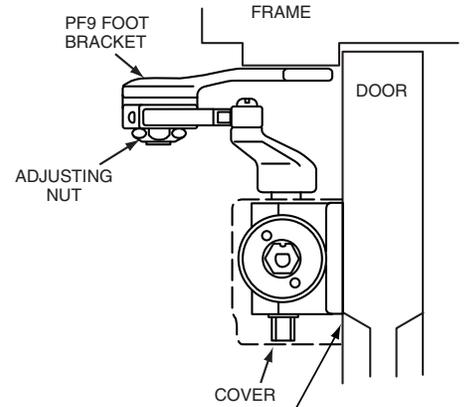
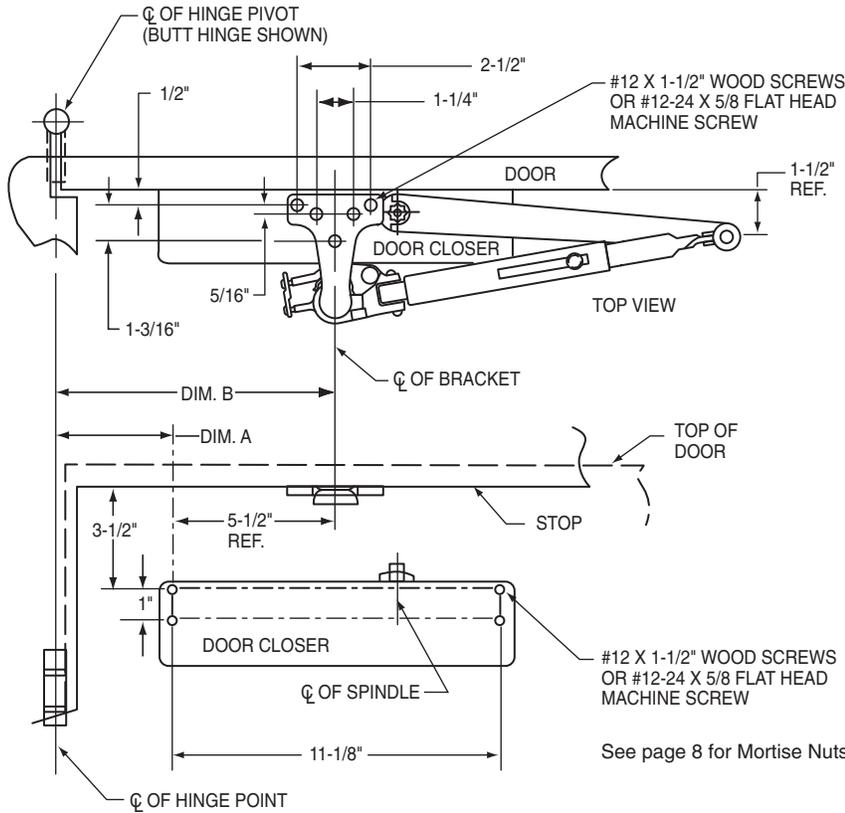
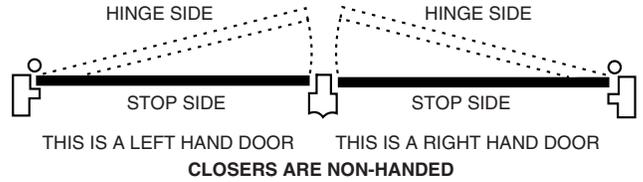
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PARALLEL ARM APPLICATION

INSTALLATION INSTRUCTIONS

MAX DOOR OPENING	DIM. A	DIM. B
110°	4"	9 1/2"
180°	1 1/4"	6 3/4"

CLOSER MOUNTED ON STOP SIDE OF A DOOR



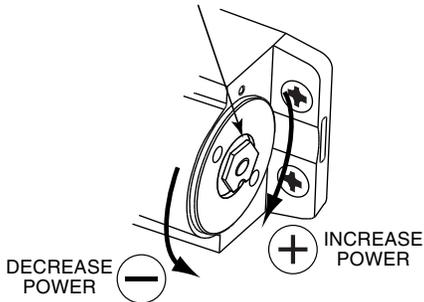
USE 1430-D DROP BRACKET IF DOOR RAIL IS TOO NARROW (SEE ACCESSORIES ON THE NEXT PAGE)

See page 8 for Mortise Nuts

SPRING ADJUSTMENT

ADJUST SPRING POWER ACCORDING TO CHART.

SPRING POWER ADJUSTING NUT



FOR EXTERIOR DOORS AND WHERE STRONG DRAFT EXISTS INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTING NUT CLOCKWISE. IF NECESSARY, DECREASE SPRING POWER TO MEET REQUIREMENTS BY TURNING SPRING ADJUSTING NUT COUNTER CLOCKWISE.

↻ CW-CLOCKWISE ↺ CCW-COUNTER CLOCKWISE

NUMBER OF TURNS OF SPRING POWER ADJUSTING NUT*
USE CHART AS GUIDE ONLY.

DOOR WIDTH (INCHES)	APPROXIMATE DOOR WEIGHT (POUNDS)	1430 DOOR CLOSERS	1431* DOOR CLOSERS
24	80	1-3 CCW	
30	110	FACTORY** SET	FACTORY** SET
32	115		
36	130		4-7 CW
40	150	1-3 CW	7-10 CW
42	155	4-7 CW	
44	165		
46	170	7-10 CW	
48	180		
OVER 48			

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A

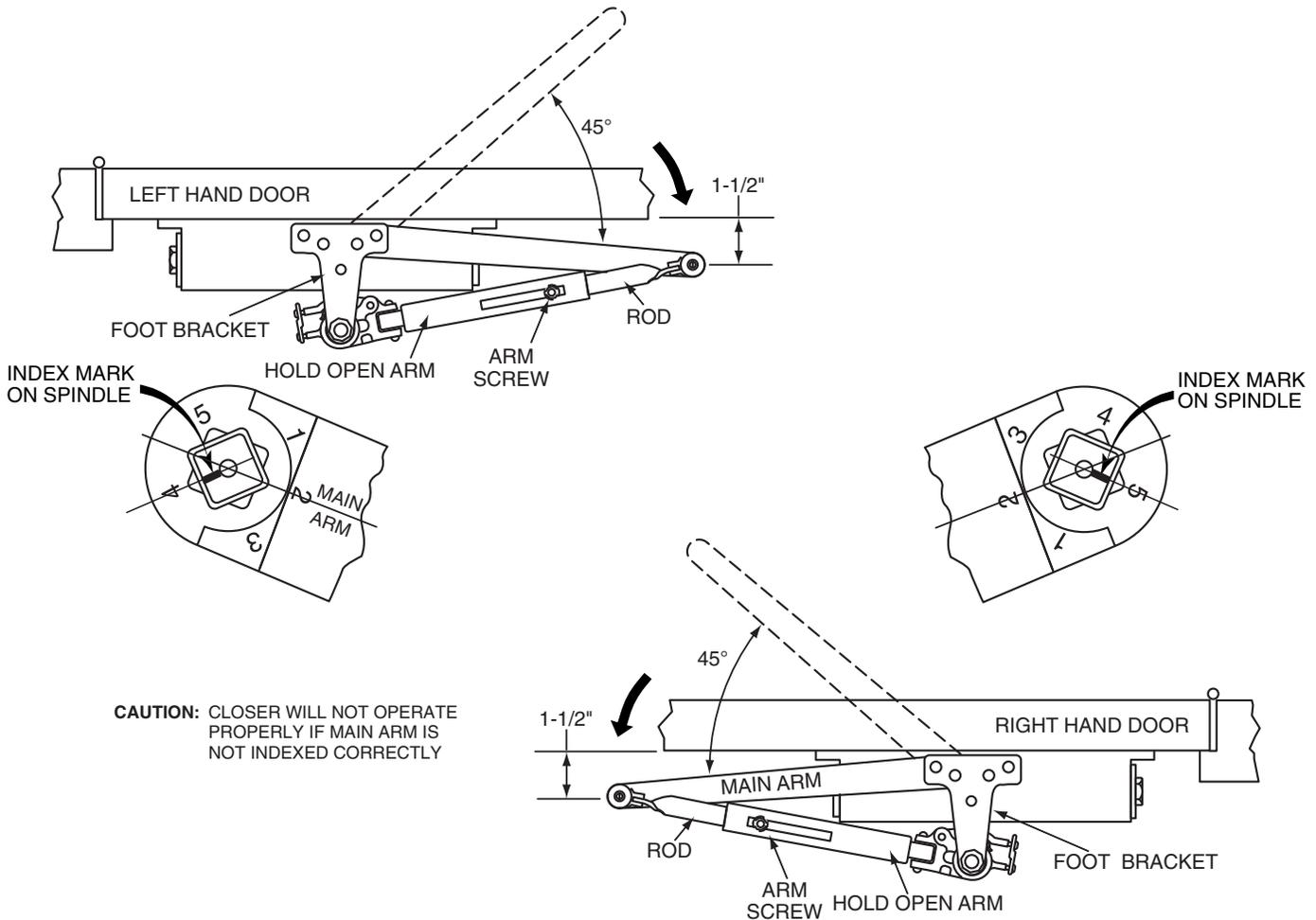
SELECT DEGREE OF DOOR OPENING REQUIRED AND ATTACH DOOR CLOSER BODY TO DOOR (LONG END TOWARD HINGE) AND FOOT BRACKET TO FRAME ACCORDING TO ILLUSTRATION ON PAGE 3.

B

– ASSEMBLE MAIN ARM TO CLOSER SPINDLE WITH INDEX MARK ON END OF SPINDLE 45° FROM ARM AXIS, AS ILLUSTRATED BELOW.

USE WRENCH ON THE BOTTOM END OF SPINDLE TO ROTATE IT INTO POSITION.

– ATTACH ARM TO SPINDLE WITH WASHER AND SCREW.

**C**

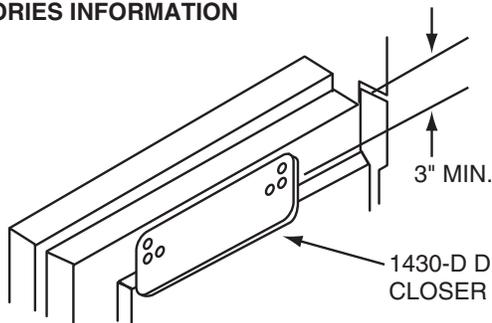
– OPEN DOOR AND INSERT RECTANGULAR ROD INTO HOLD OPEN ARM.

– CLOSE DOOR AND TIGHTEN ARM SCREW SECURELY WHEN END OF MAIN ARM IS POSITIONED 1-1/2" AWAY FROM DOOR. SEE ILLUSTRATION ABOVE.

D

ADJUST AND REGULATE DOOR CLOSER AS DIRECTED ON PAGE 7

ACCESSORIES INFORMATION



MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERING

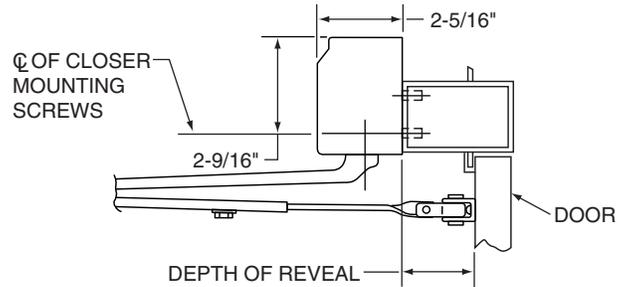
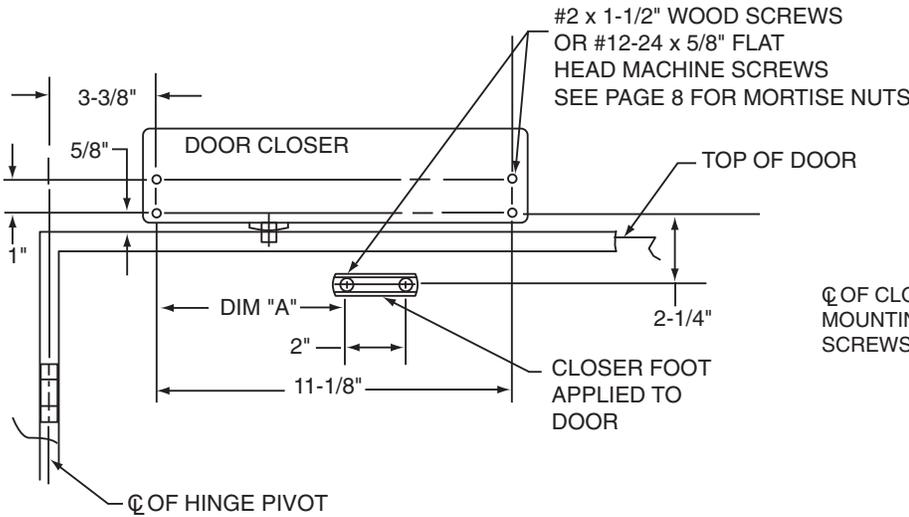
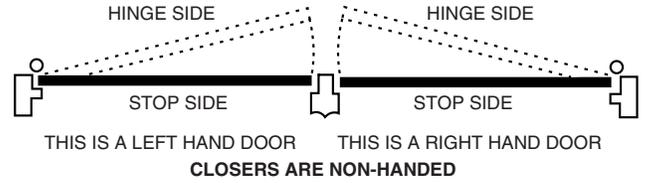
1430-D DROP BRACKET.
CLOSER IS MOUNTED ON PLATE WHEN TOP RAIL IS TOO NARROW.

TOP JAM APPLICATION

INSTALLATION INSTRUCTIONS

LEFT HAND DOOR ILLUSTRATED
SAME DIMENSIONS APPLY FOR RIGHT HAND
DOOR MEASURE FROM HINGE \O

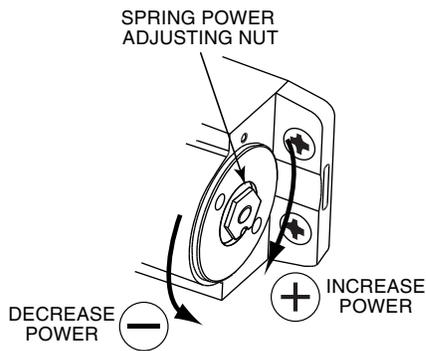
CLOSER MOUNTED ON FRAME ABOVE STOP SIDE OF A DOOR



ARM ASSEMBLY TYPE	REVEAL DEPTH	DIM. A	MAX DOOR OPENING	RANGE OF HOLD OPEN
"F" ARM	0" TO 2"	6"	140°	80° - 130°
"FZ" ARM	2-1/8" TO 5"	6-3/4"		
"FZA" ARM	5-1/8" TO 8"	7-1/2"		

SPRING ADJUSTMENT

ADJUST SPRING POWER ACCORDING TO CHART.



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48	180		
OVER 48		7-10 CW	

FOR EXTERIOR DOORS AND WHERE STRONG DRAFT EXISTS INCREASE SPRING POWER AS NEEDED BY TURNING SPRING ADJUSTING NUT CLOCKWISE. IF NECESSARY, DECREASE SPRING POWER TO MEET REQUIREMENTS BY TURNING SPRING ADJUSTING NUT COUNTER CLOCKWISE.

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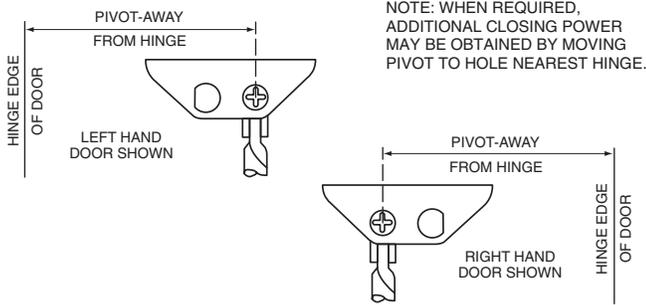
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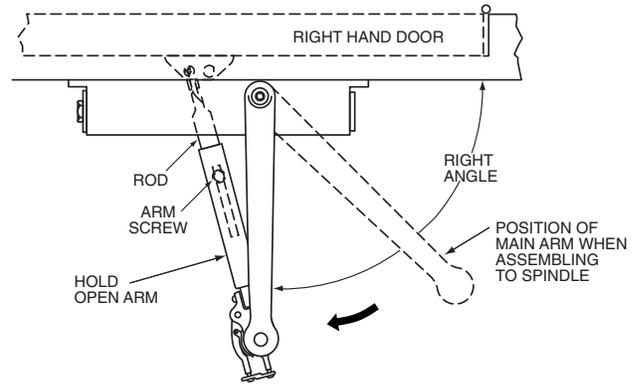
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A USING ILLUSTRATION ON A PAGE 5 SELECT DEGREE OF DOOR OPENING DESIRED AND ATTACH CLOSER TO DOOR WITH SHORT END TOWARD HINGE

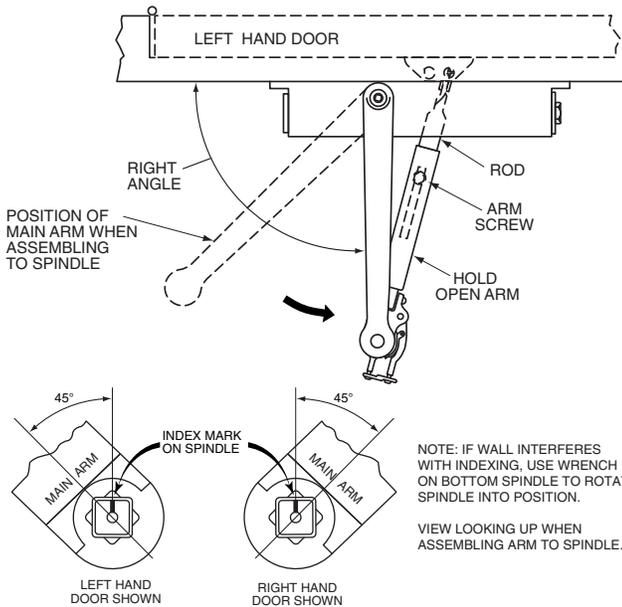
B ATTACH FOOT TO DOOR WITH PIVOT AWAY FROM HINGE AS ILLUSTRATED BELOW.



D OPEN DOOR AND INSERT RECTANGULAR ROD INTO HOLD OPEN ARM THEN CLOSE THE DOOR AND TIGHTEN ARM SCREW SECURELY WHEN MAIN ARM IS AT RIGHT ANGLE TO DOOR.



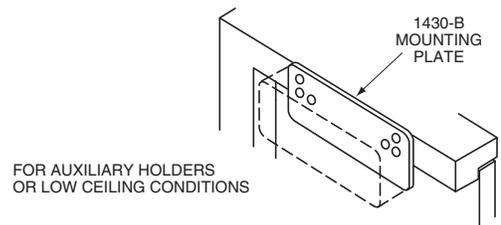
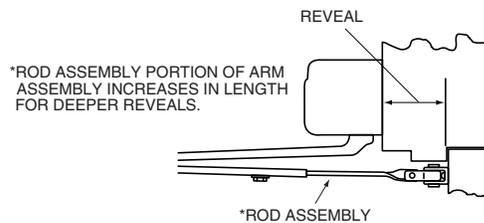
C ASSEMBLE MAIN ARM TO CLOSER WITH INDEX MARK ON SPINDLE ALIGNED AS SHOWN BELOW. ATTACH ARM WITH SCREW AND WASHER.



CAUTION: CLOSER WILL NOT OPERATE PROPERLY IF MAIN ARM IS NOT INDEXED CORRECTLY

E ADJUST AND REGULATE DOOR CLOSER AS DIRECTED ON PAGE 7

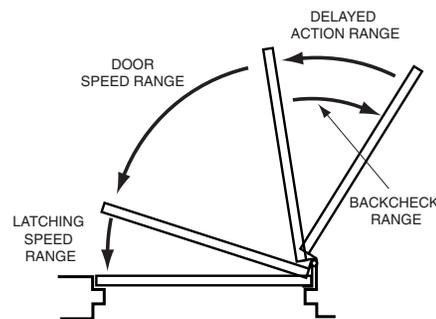
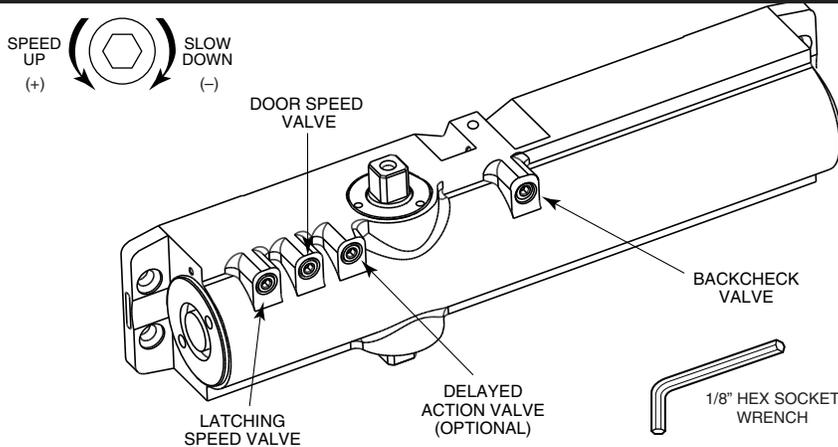
ACCESSORIES INFORMATION



MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERED

FINAL ADJUSTMENT AND REGULATING PROCEDURE

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A REGULATING DOOR SPEED AND LATCHING SPEED

USE HEX SOCKET (ALLEN) WRENCH AND TURN VALVE CLOCKWISE TO SLOW DOWN OR COUNTER CLOCKWISE TO SPEED UP DOOR MOVEMENT AS ILLUSTRATED ABOVE.

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.

C FOR MODELS WITH OPTIONAL DELAYED ACTION FEATURE

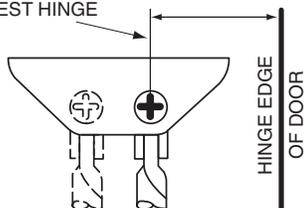
"DELAYED ACTION" PROVIDE SLOW DOOR CLOSING THROUGH DELAYED ACTION RANGE (SEE ILLUSTRATION ABOVE).

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

D ADJUSTING FOOT FOR ADDITIONAL CLOSING POWER

(FOR STANDARD AND TOP JAMB APPLICATIONS ONLY)

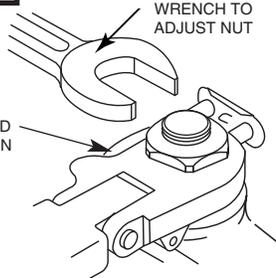
MOVE FOOT PIVOT TO HOLE NEAREST HINGE



E

USE 15/16\"/>

HOLD OPEN NUT



ADJUSTMENT HOLD OPEN ARM

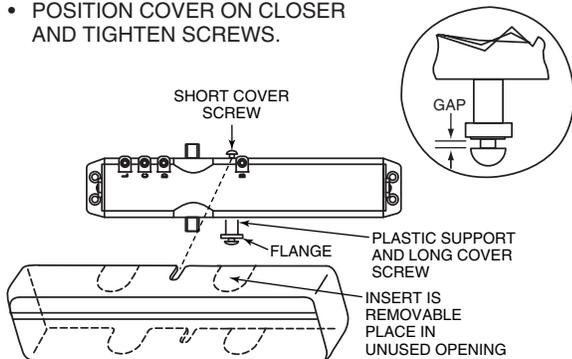
SLIGHT TIGHTENING OR LOOSENING OF HOLD OPEN NUT CHANGES HOLDING POSITION OF DOOR.

NOTE: TO PROTECT WALL, TRIM AND CLOSER. USE A DOOR STOP, LOCATED 10° BEYOND HOLD OPEN POSITIONS BY NOT BEYOND THE MAX. DOOR OPENING SHOWN ON INSTRUCTIONS.

F INSTALL COVER AS FOLLOWS

FOR STANDARD AND PARALLEL ARM APPLICATION

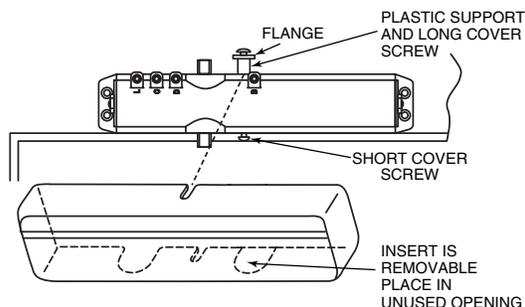
- SCREW SHORT COVER SCREW (#8-32 x 5/16") INTO TOP OF CASE APPROXIMATELY 2 TURNS.
- ASSEMBLE PLASTIC SUPPORT AND LONG COVER SCREW (#8-32 x 1-1/4") INTO BOTTOM OF CASE APPROXIMATELY 2 TURNS.
- HOLD SUPPORT AGAINST CASE AND SLIDE COVER INTO GAP BETWEEN FLANGE AND SCREW HEAD.
- POSITION COVER ON CLOSER AND TIGHTEN SCREWS.



RIGHT HAND ILLUSTRATED

FOR TOP JAMB APPLICATION

- ASSEMBLE PLASTIC SUPPORT AND LONG COVER SCREW (#8-32 x 1-1/4") INTO BOTTOM OF CASE APPROXIMATELY 2 TURNS.
- SCREW SHORT COVER SCREW (#8-32 x 5/16") INTO BOTTOM OF CASE APPROXIMATELY 2 TURNS.
- SLIDE COVER INTO GAP BETWEEN FLANGE AND SCREW HEAD. POSITION COVER ON CLOSER AND TIGHTEN SCREWS.



RIGHT HAND ILLUSTRATED

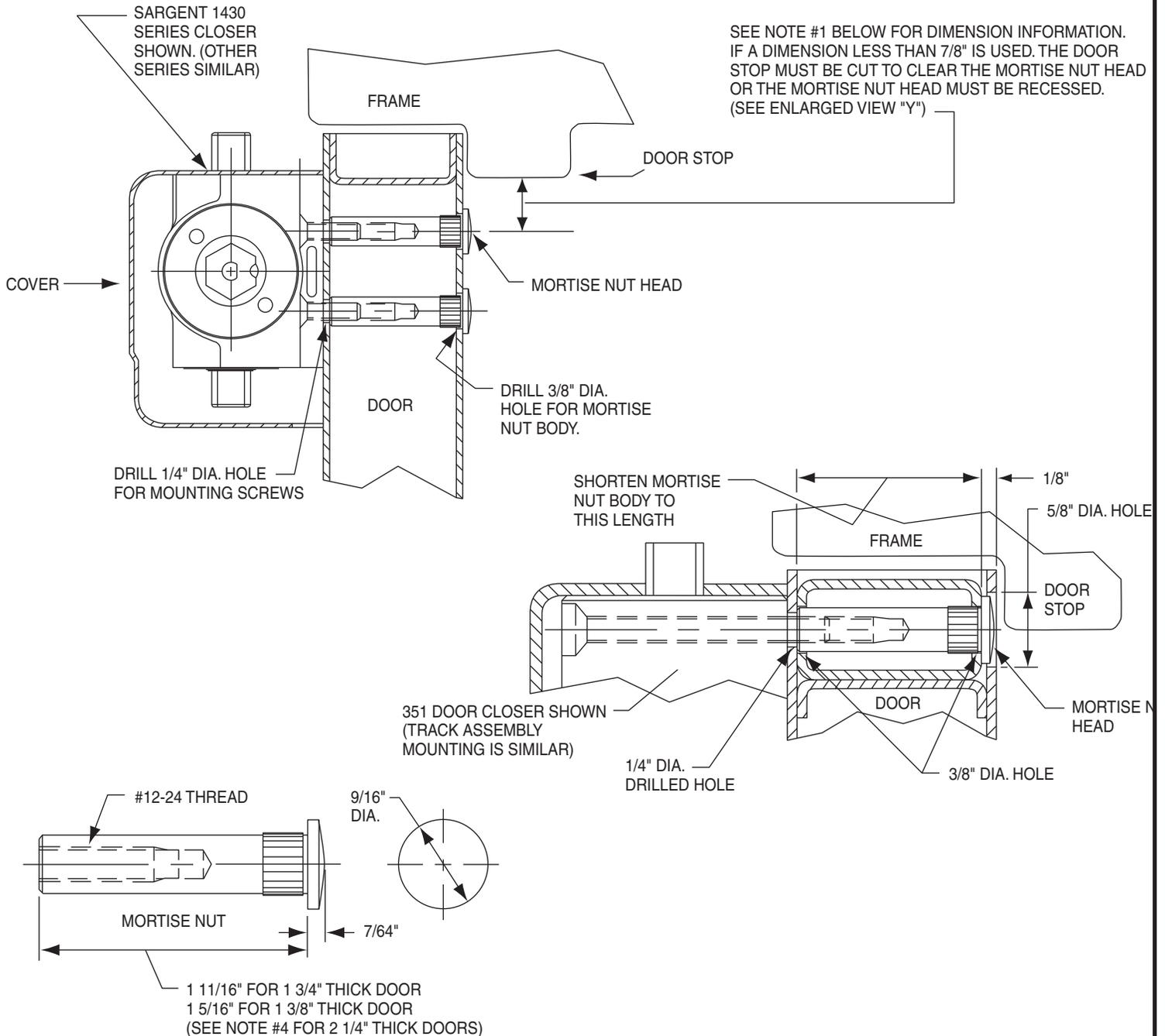
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USING MORTISE NUTS WITH SARGENT DOOR CLOSERS

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.



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