

INSTRUCTIONS FOR 1431 Door Closer with Hold Open Arms 1431 SERIES ADJUSTABLE FROM SIZE 1 THRU 6

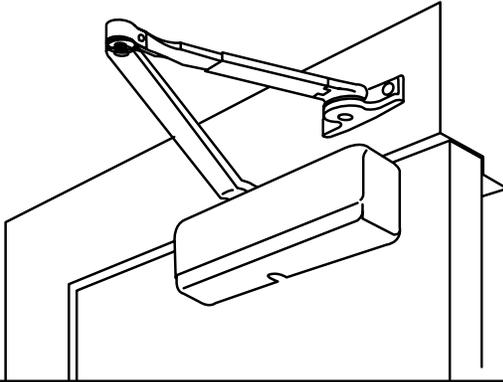
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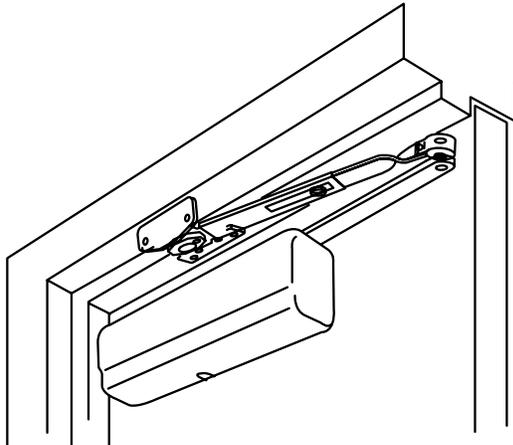
FOR INSTALLATION ASSISTANCE CALL SARGENT AT 1-800-727-5477 / www.sargentlock.com

Installation Instructions based on Application and Arm type



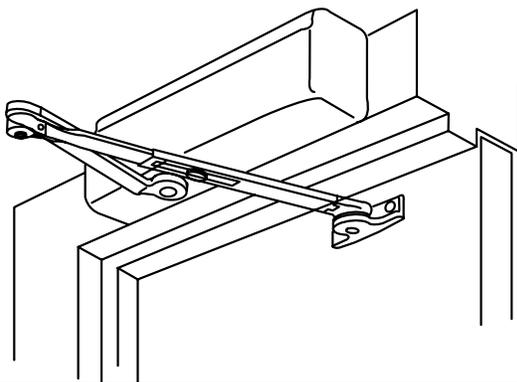
Standard Mounting Application - H arm

For Standard Application - the Door Closer is mounted on the hinge side of door (see page 2)



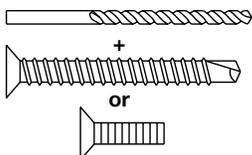
Parallel Arm Application - PH9 Arm

For Parallel Arm Application - the Door Closer is mounted on the stop side of door (see page 4)

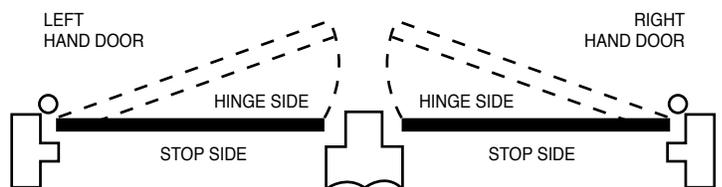


Top Jamb Application - H, HZ & HZA Arm

For Top Jamb Application - the Door Closer is mounted on the frame on the stop side of the door (see page 6)



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



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STANDARD APPLICATION

A

A1) Select closer mounting position based on the maximum door opening, as listed below

Note: For ADA applications, select the 160Y position

B

B1) Prep door and frame

Note: 3/32" pilot holes are required when Self Tapping Screws are being used

Note: If machine screws are being used, use a drill #16 (.177) and a #12-24 tap

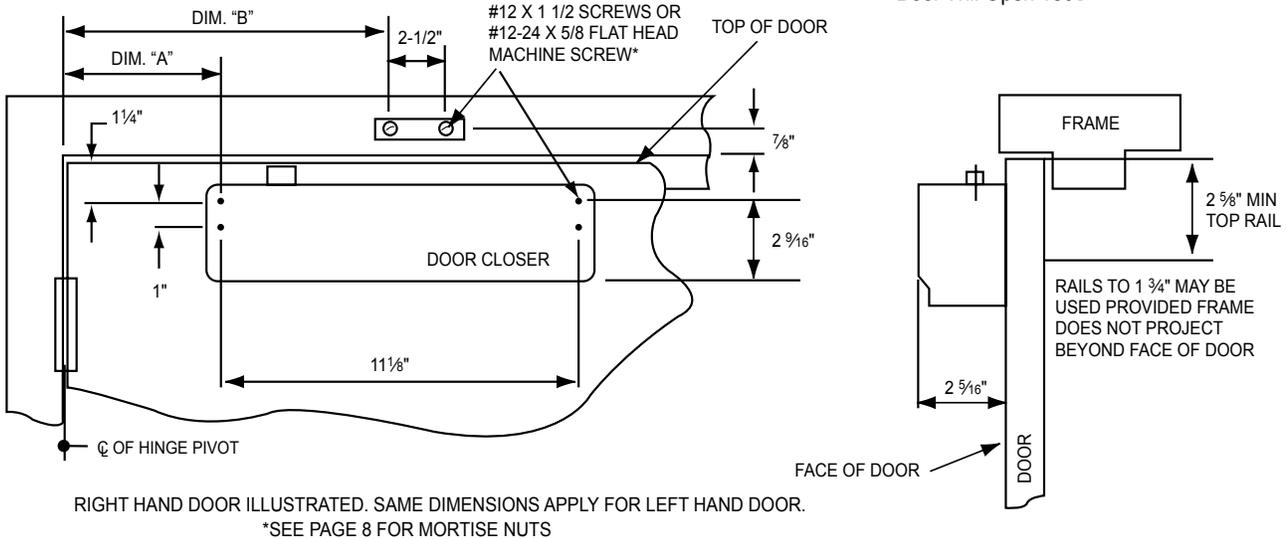
B2) Install closer body onto the door

B3) Install Foot & Rod Assembly onto the frames

MAXIMUM DOOR OPENING	DIM. A	DIM. B
120Y	7 1/2"	13 1/4"
160Y**	4 1/4"	10"



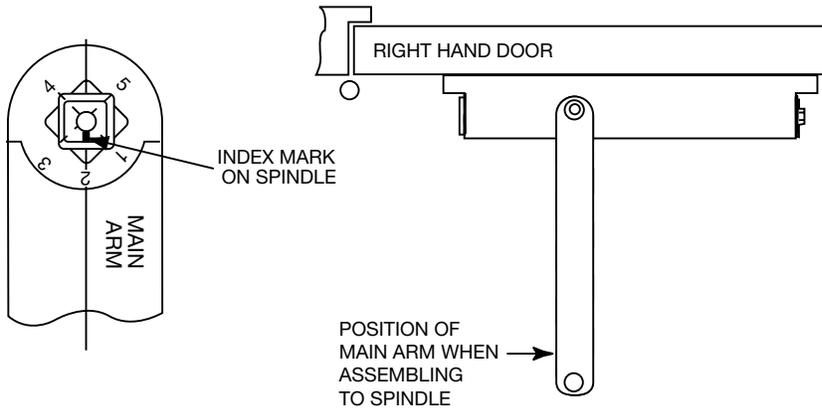
**If Butt, Frame and Wall Conditions Permit Door Will Open 180Y



RIGHT HAND DOOR ILLUSTRATED. SAME DIMENSIONS APPLY FOR LEFT HAND DOOR.
*SEE PAGE 8 FOR MORTISE NUTS

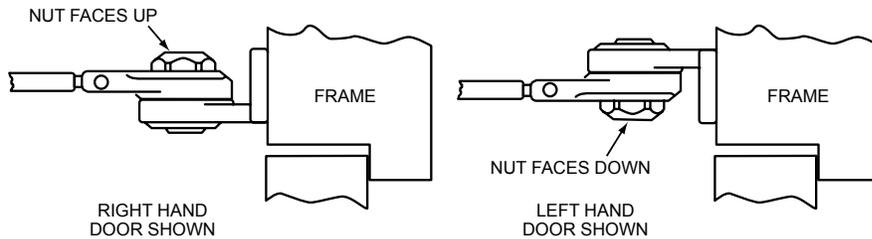
C

C1) Install main arm on the closer with the index mark on the spindle aligning with the # 2 on the main arm (as shown)



D

Attach hold open foot to frame with adjusting nut facing down for left hand door or up for right hand door, as illustrated below

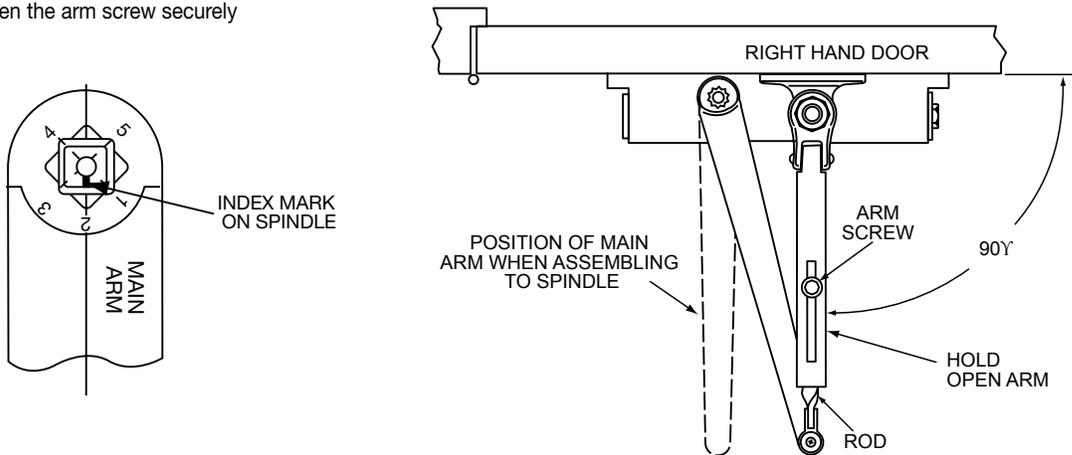


2

STANDARD APPLICATION

E

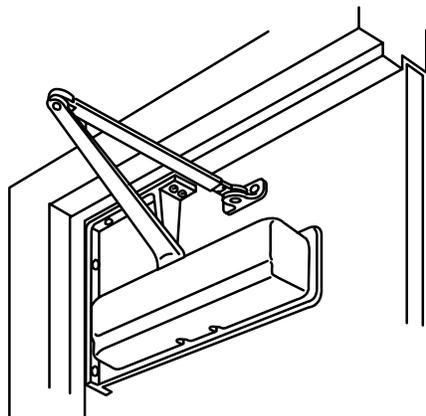
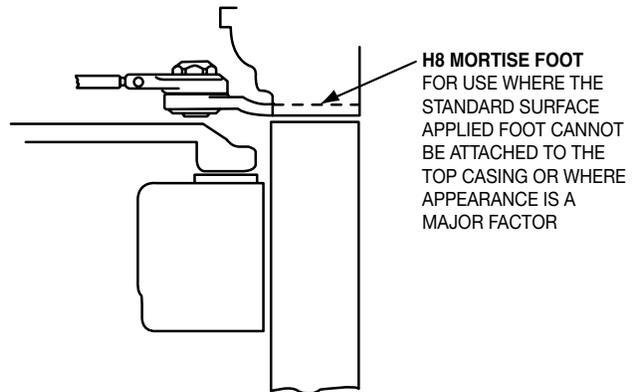
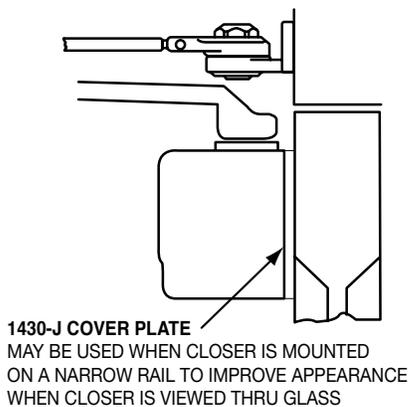
- E1) Opening the door slightly, slide rod into swivel arm and then close the door
- E2) With the door closed, position the swivel arm so that it is 90° to the door surface
- E3) Tighten the arm screw securely



F

Adjust closer as required (See page 8 for details).

ACCESSORIES INFORMATION



1431-W corner bracket closer is mounted on bracket which is attached to door jamb on stop side of door
Use this application for exterior doors to keep the closer inside of building; Also may be used to obtain full 180° door opening

MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERED

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PARALLEL APPLICATION

A

A1) Select closer mounting position based on the maximum door opening, as listed below

Note: For ADA applications, select the 180 position

B

B1) Prep Door and Frame

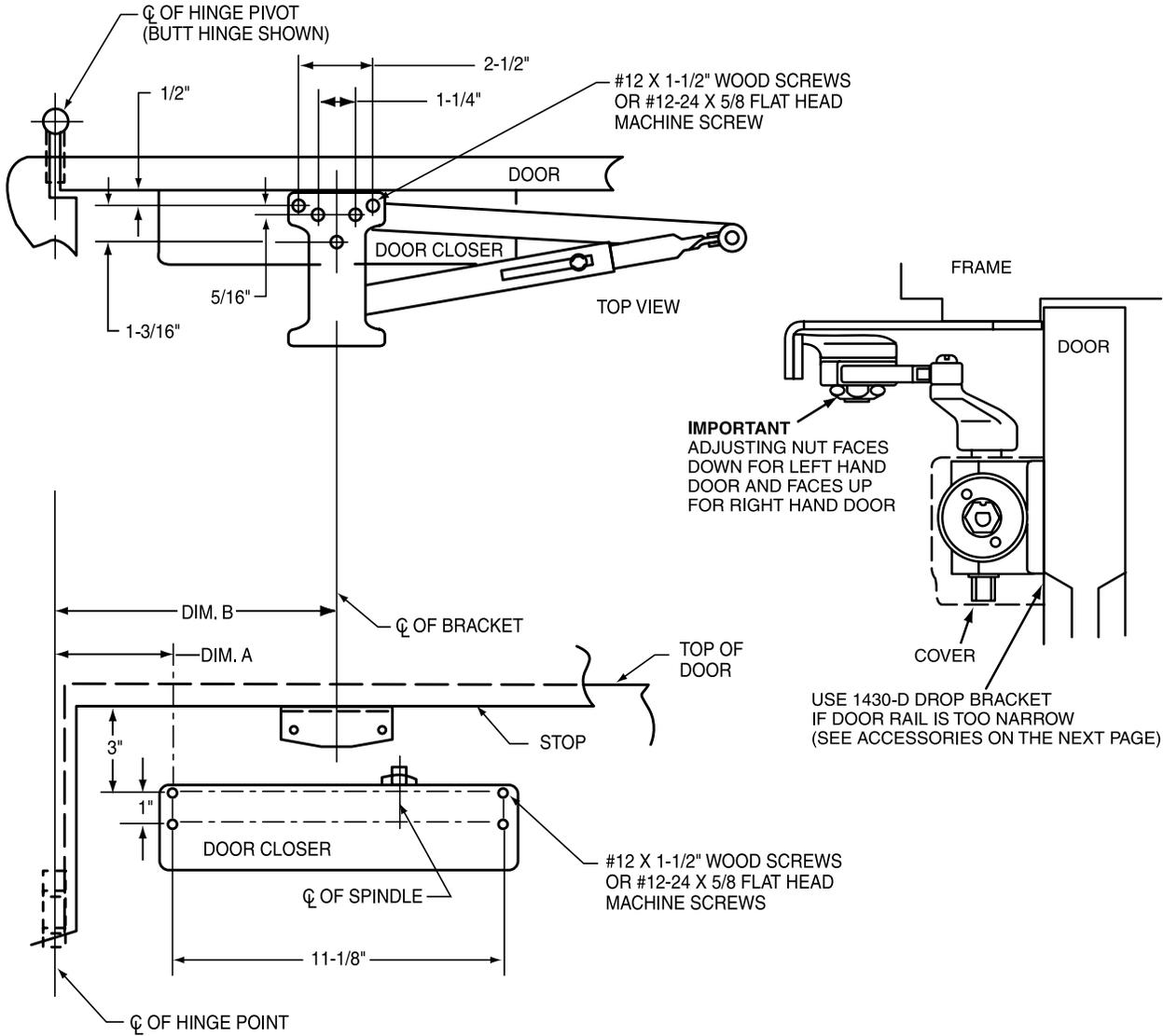
Note: 3/32" pilot holes are required when Self Tapping Screws are being used.

Note: If machine screws are being used, use a drill #16 (.177) and a #12-24 tap.

B2) Install closer body onto the door

B3) Install Foot Bracket & Rod Assembly onto the frame

MAXIMUM DOOR OPENING	DIM. A	DIM. B
95°	6 1/2"	12 3/4"
120°	4"	10 1/2"
180°	1 1/4"	7 3/4"



*SEE PAGE 8 FOR MORTISE NUTS

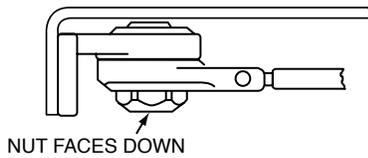
4

INSTRUCTIONS FOR INSTALLING PARALLEL ARM APPLICATION

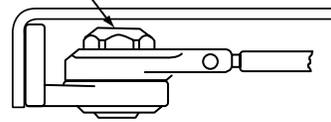
CLOSER MOUNTED ON
STOP SIDE OF DOOR

C 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 "A" page 3). Use templates enclosed for special arms. Mount hold open arm to bracket with adjusting screw facing down for left hand door, facing up for right hand door.

LEFT HAND
DOOR SHOWN



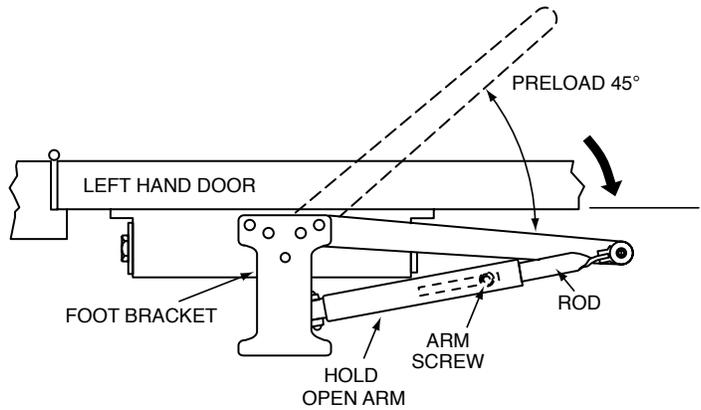
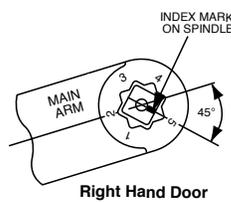
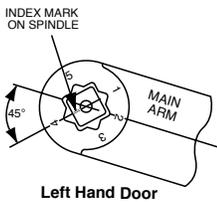
NUT FACES UP



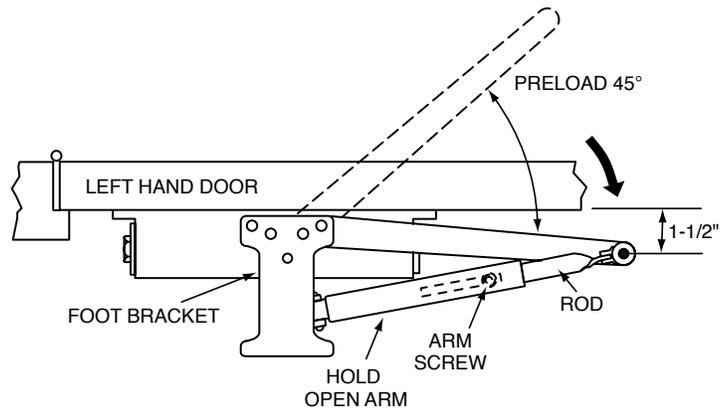
RIGHT HAND
DOOR SHOWN

D D1) Install main arm on the closer with the index mark on spindle aligned with the number on the arm
Note: Left Hand Doors -align index mark with the # 4 on the main arm (as shown)
Note: Right Hand Doors -align index mark with the # 5 on the main arm (as shown)

D2) This requires the spindle to be rotated
 D3) Rotate the spindle on the bottom of the closer to align index mark with the required number on the arm

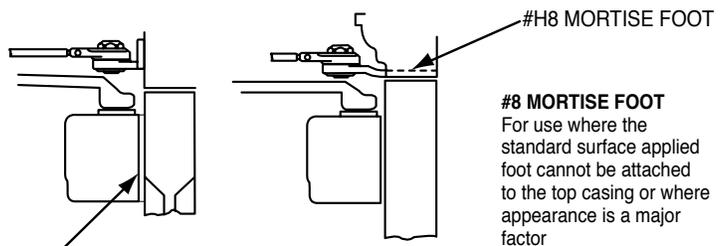
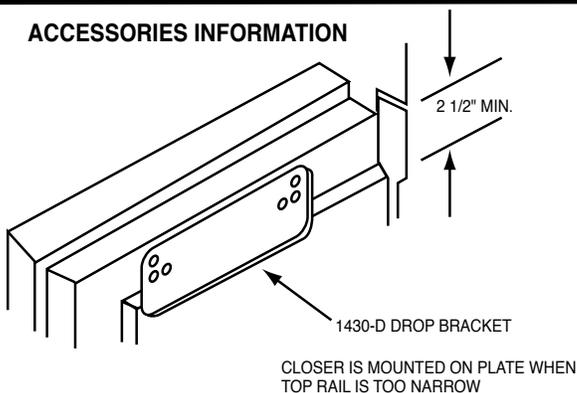


E E1) Opening the door slightly, slide rod into swivel arm and then close the door.
 E2) With the door in the closed position, swivel the arm so that the pivot is an 1-1/2" off the door surface (as shown below)
 E3) Tighten the arm screw securely



F Adjust closer as required. See page 8 for details.

ACCESSORIES INFORMATION



1430-J COVER PLATE
 May be used when closer is mounted on a narrow rail to improve appearance when closer is viewed through glass

#8 MORTISE FOOT
 For use where the standard surface applied foot cannot be attached to the top casing or where appearance is a major factor

MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERED

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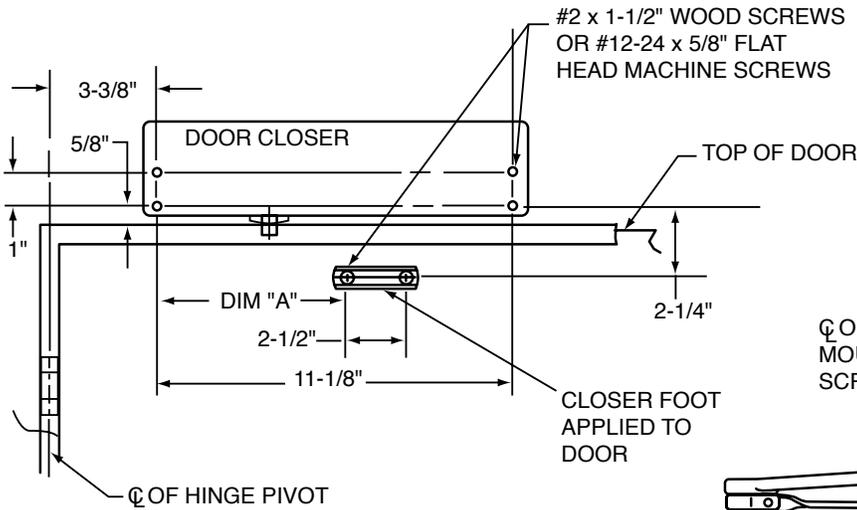
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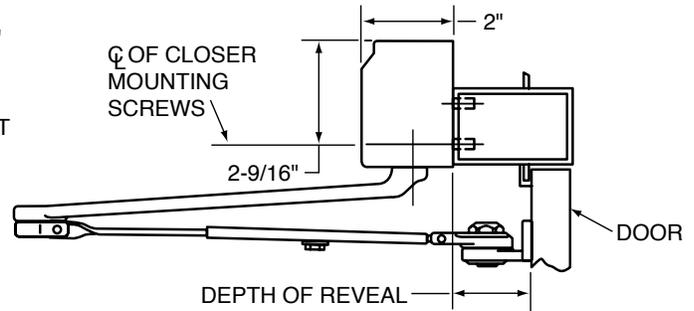
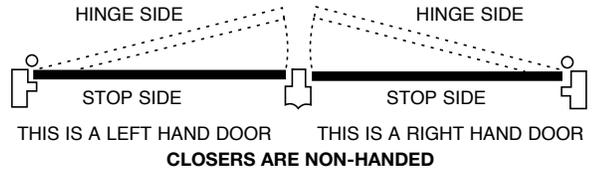
TOP JAM APPLICATION

INSTALLATION INSTRUCTIONS

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



CLOSER MOUNTED ON FRAME ABOVE STOP SIDE OF A DOOR

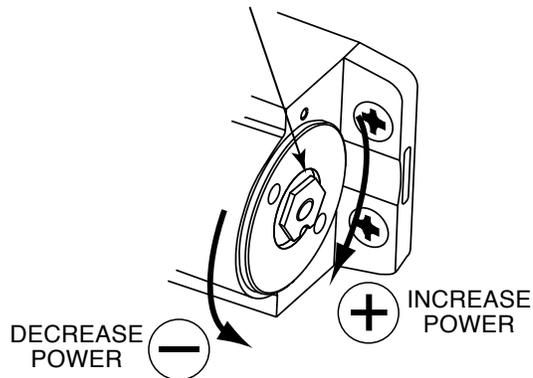


ARM ASSEMBLY TYPE	REVEAL DEPTH	DIM. A	MAX DOOR OPENING	RANGE OF HOLD OPEN
"H" ARM	0" TO 2"	5-3/4"	180°	80° - 180°
"HZ" ARM	2-1/8" TO 5"	6-1/2"	140°	80° - 140°
"HZA" ARM	5-1/8" TO 8"	7-1/4"	140°	80° - 130°

SPRING ADJUSTMENT

ADJUST SPRING POWER ACCORDING TO CHART.

SPRING POWER ADJUSTING NUT



\odot CW-CLOCKWISE \ominus 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	7-10 CW	
46	170		
48	180		
OVER 48			

* 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.

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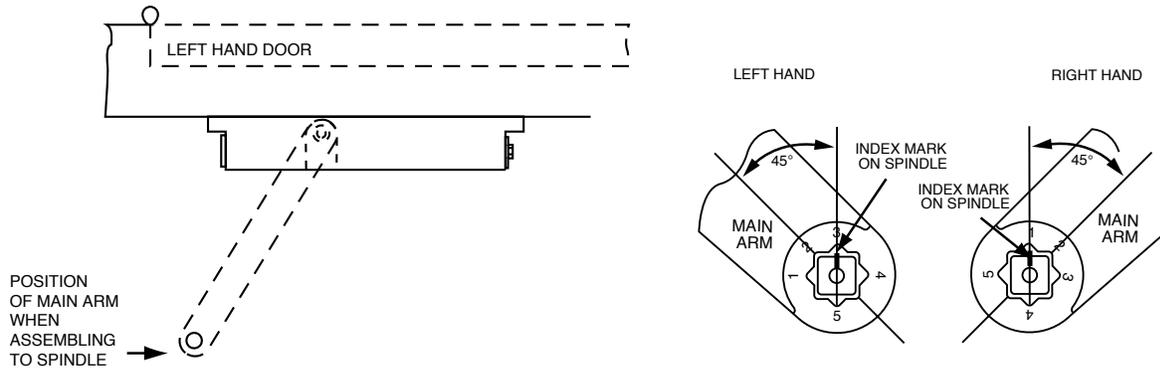
INSTRUCTIONS FOR INSTALLING TOP JAMB

CLOSER MOUNTED ON FRAME
ABOVE STOP SIDE OF DOOR

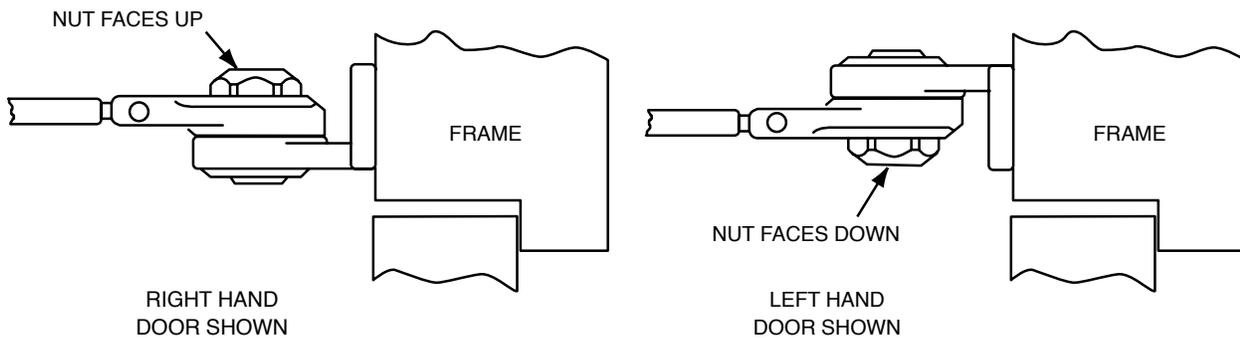
D D1) Install main arm on the closer with the index mark on spindle aligned with the number on the arm

Note: Left Hand Doors -align index mark with the # 3 on the main arm (as shown)

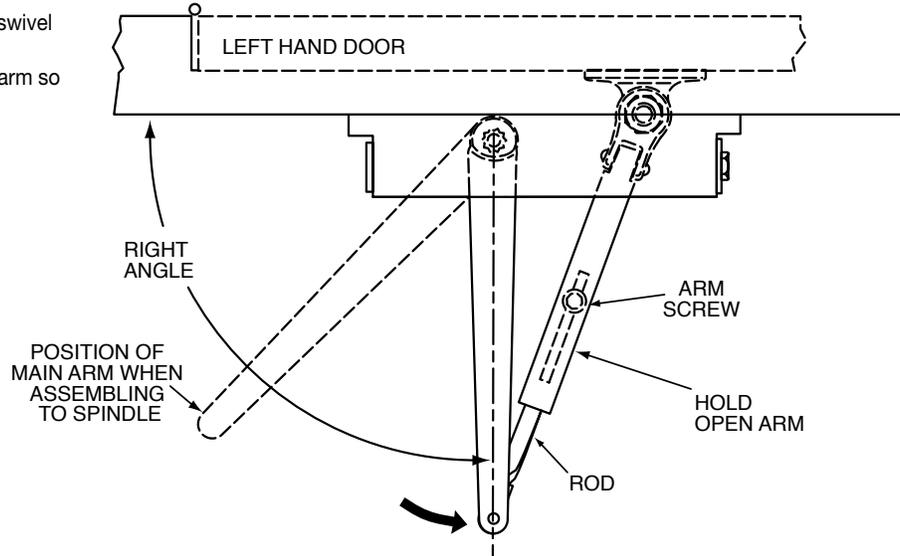
Note: Right Hand Doors -align index mark with the # 1 on the main arm (as shown)



E Attach hold open foot to frame with adjusting nut facing down for left hand door or up for right hand door as illustrated below.



F F1) Opening the door slightly, slide rod into swivel arm and then close the door
F2) With the door closed, position the main arm so it is at 90° to the door surface
F3) Tighten the arm screw securely



G Adjust closer as required. See page 8 for details.

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FINAL ADJUSTMENT AND REGULATING PROCEDURE

Minimum recommended door closing time is 6 Seconds for doors opened to 90 degrees.

Use 1/8" hex (Allen) wrench to adjust valves as needed.

Closing and latching speeds:

Turn valves clockwise to slow down or counterclockwise to speed up door movement.

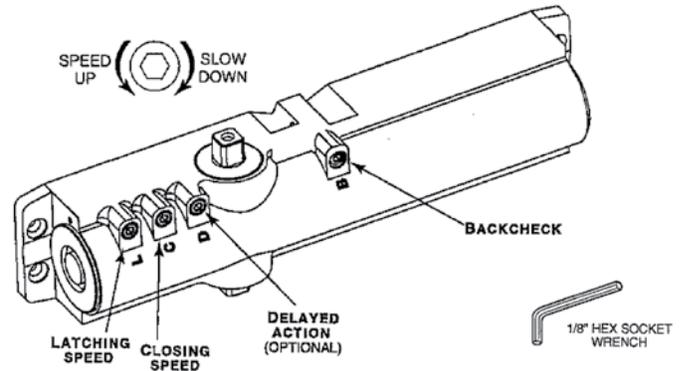
Backcheck:

To regulate the intensity of back check action, turn valve clockwise to increase or counterclockwise to decrease checking.

CAUTION: Set valve for slight cushioning effect; closer can be damaged if the checking action is too abrupt. Never use the backcheck as a door stop. Always use a door stop to stop the door.

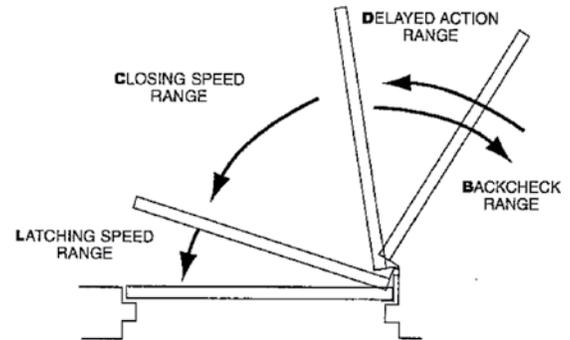
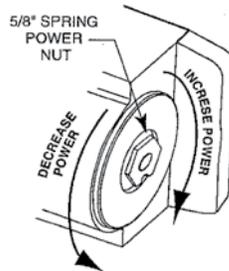
Delayed action feature (Optional feature on some models):

"Delayed action" provides slow door closing through the delayed action range. Turn valve clockwise to slow down or counterclockwise to speed up door movement.



NUMBER OF TURNS OF SPRING POWER ADJUSTING NUT	
DOOR WIDTH (INCHES)	1431 DOOR CLOSER
24-30	TURN nut 1-3
30-36	FACTORY SET
36-42	TURN nut 1-4
42-48	TURN nut 7-9

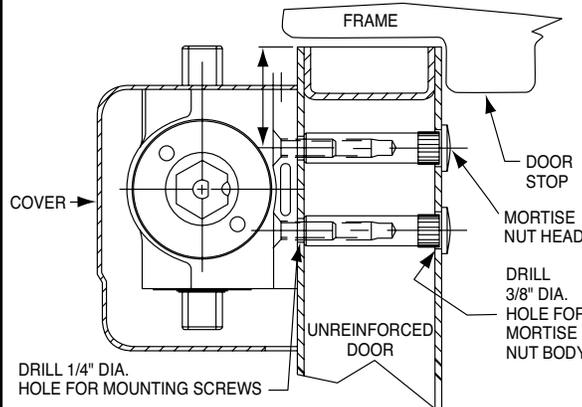
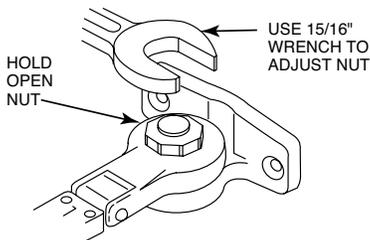
Adjusting door to close due to high draft conditions may exceed ADA standards. Consult local ordinances when fire doors are involved



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 position but not beyond the max. door opening shown on instructions.



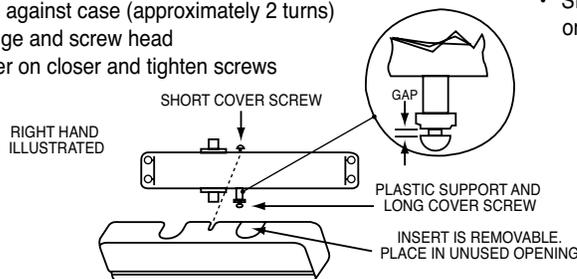
1. For top jamb and corner bracket applications: The door closer foot will be attached to the door in a manner similar to that shown for mounting the closer body.

2. The appropriate mortise nuts and screws will be supplied based on door thickness. Door construction must provide a bridge type reinforcement to prevent the door rail from collapsing when through-bolts are tightened.

INSTALL COVER AS FOLLOWS:

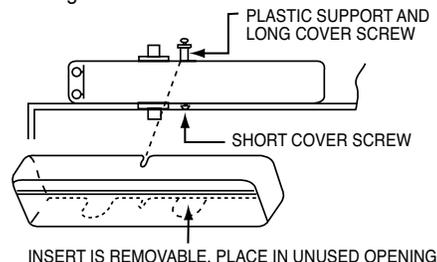
FOR STANDARD AND PARALLEL ARM APPLICATION

- 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 (approximately 2 turns) between flange and screw head
- Position cover on closer and tighten screws



FOR TOP JAMB APPLICATION

- Assemble plastic support and long cover screw (#8-32 X 1 1/4") into top 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



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