

421 CAM ACTION DOOR CLOSER (CTB, CTHB) PULL SIDE TRACK APPLICATION INSTALLATION INSTRUCTIONS

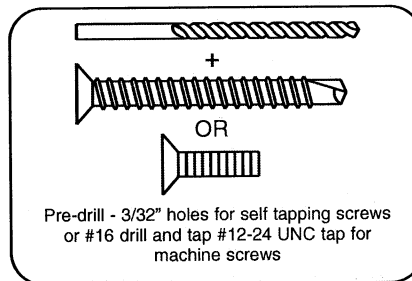
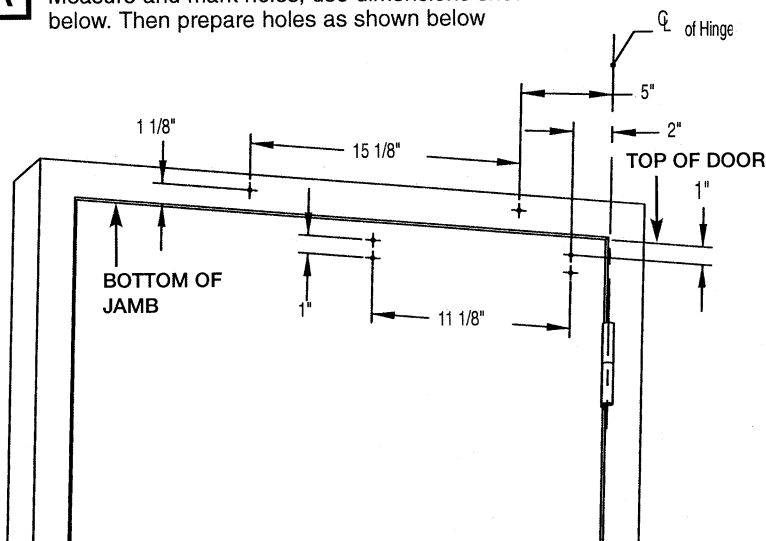
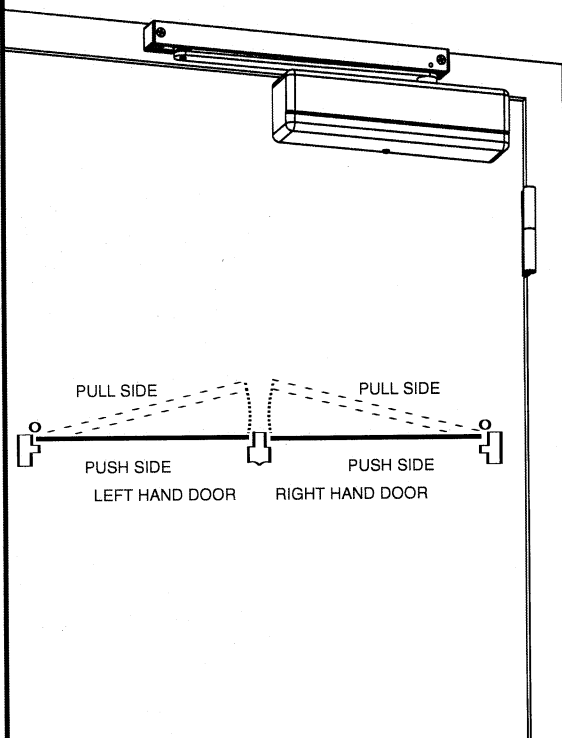


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**CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY OR DAMAGE.
FOR ASSISTANCE CALL SARGENT AT 1-800-727-5477**

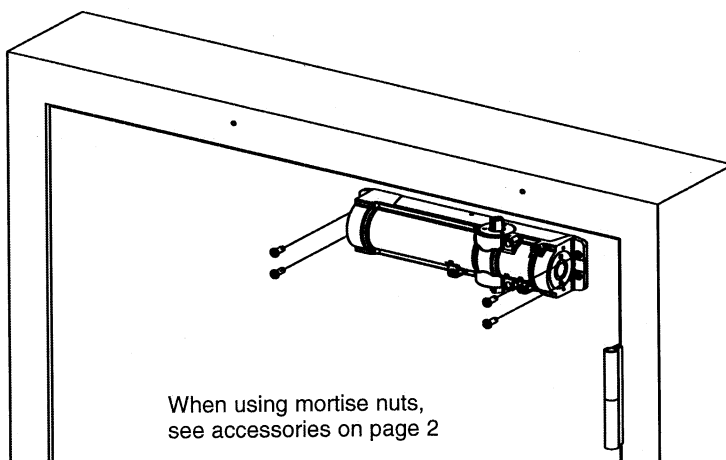
A

Measure and mark holes, use dimensions shown below. Then prepare holes as shown below



B

With provided fastener, secure closer body to door with power adjustment away from hinge

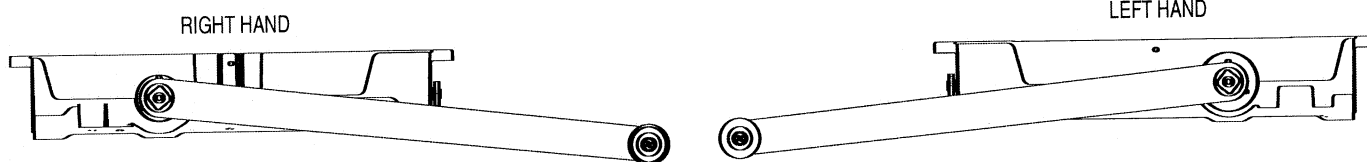


When using mortise nuts,
see accessories on page 2

C

Install arm to spindle to match hand of door. Secure arm to spindle with screw and washer provided.
(Left hand door shown)

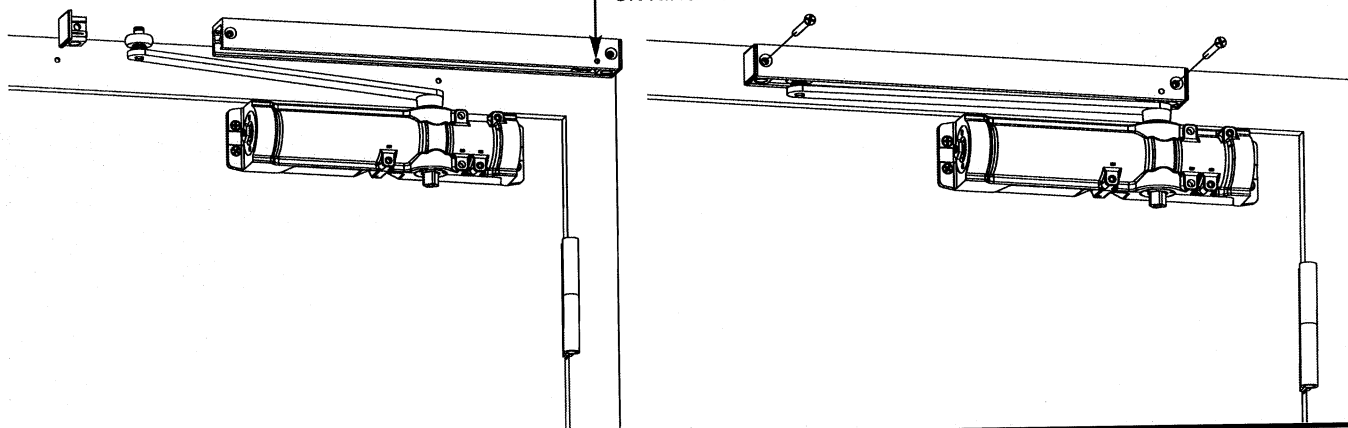
!!Warning: If not properly indexed, door closer will not operate properly!!



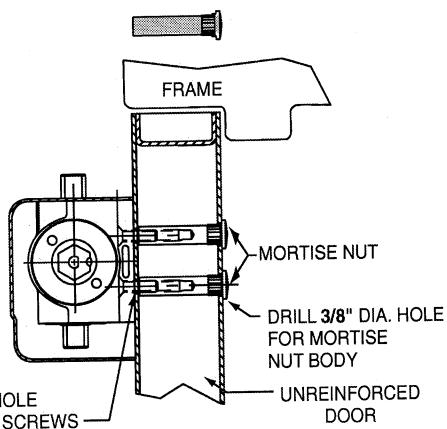
D

Slide track over roller with stop pin toward hinge and install end caps. Secure track to frame with screws provided.

NOTE: POSITION TRACK SO STOP PIN IS ON HINGE SIDE OF DOOR



Accessories information



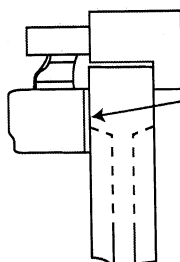
DRILL 1/4" DIA. HOLE FOR MOUNTING SCREWS

MORTISE NUT

DRILL 3/8" DIA. HOLE FOR MORTISE NUT BODY

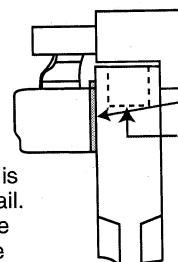
UNREINFORCED DOOR

Using optional mortise nuts when through-bolting



1431-J COVER PLATE

For use when closer is installed on narrow rail. Improves appearance when closer is visible through window.



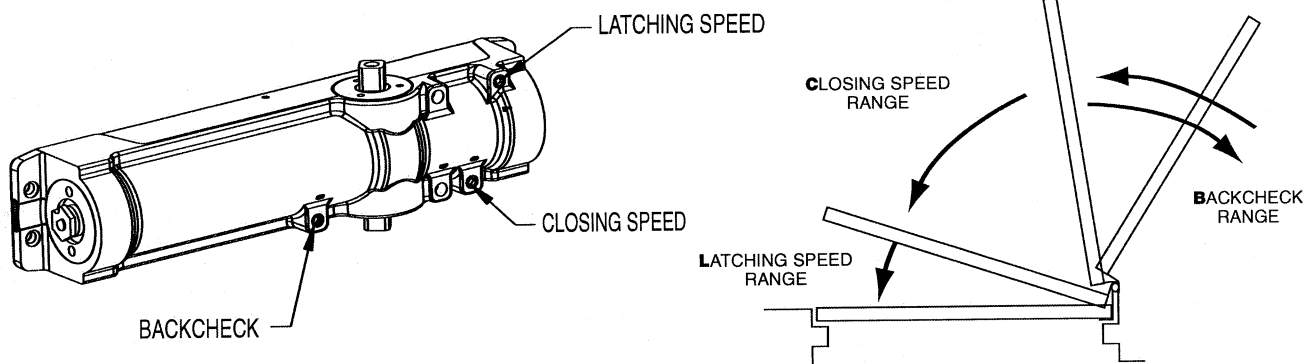
1431-B PLATE

For use with closer and concealed overhead stop

690 shown

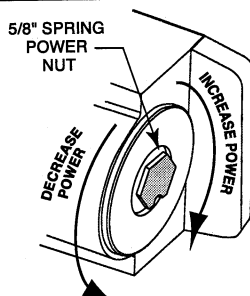
FINAL ADJUSTMENT AND REGULATING PROCEDURES

- E**
- 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 is required on doors subjected to abuse.
 - If closer is equipped with delayed action, regulate valve to achieve the desired delay.



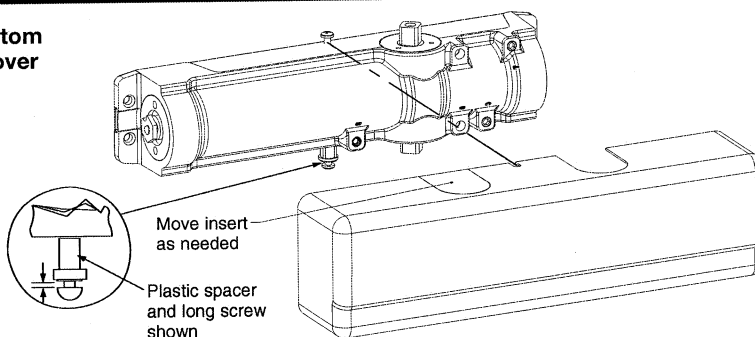
F **Adjust power to minimum required to reliably close and latch door**

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



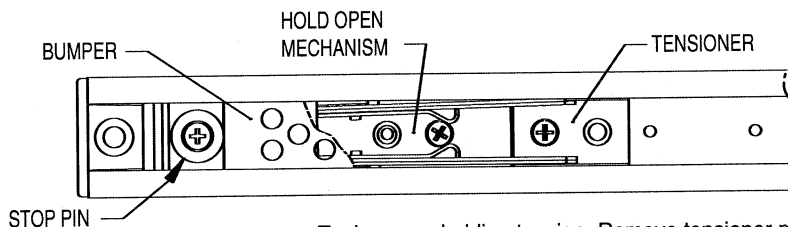
421 CLOSERS ARE FIELD ADJUSTABLE FOR SIZES 1-6

G **Install screws and bottom spacer. Then install cover as shown**



(CTHB) Hold Open Adjustments

The holder device is set for 85° door holding position at the factory. Tension is set at the highest setting.

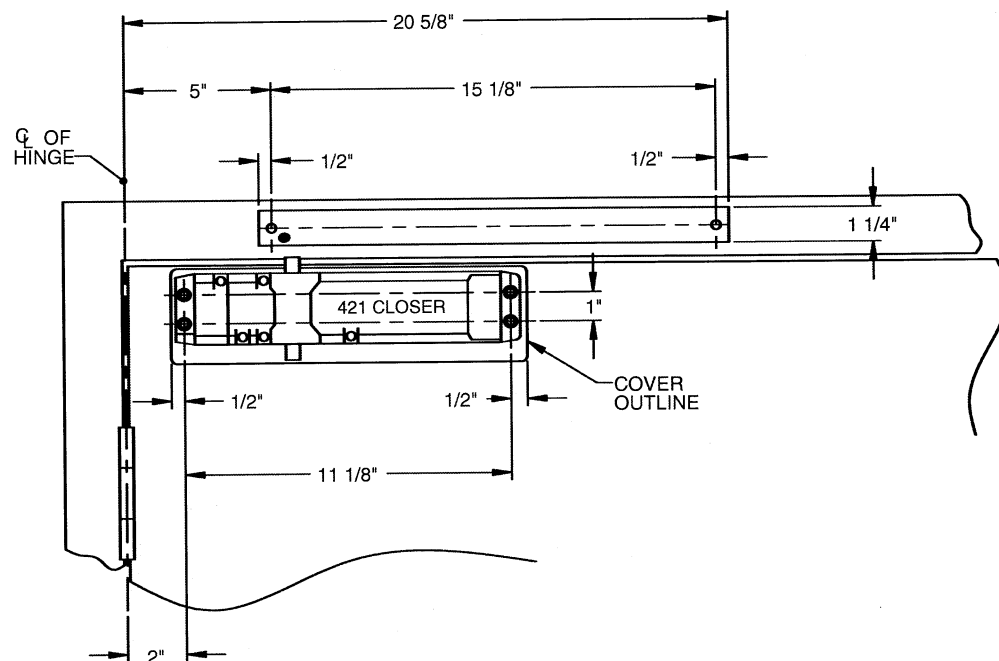


- To decrease holding tension: Remove tensioner mounting screw and move tension adjuster away from hold open mechanism by using either of the two hole locations.
- To change hold open position: Remove hold open mechanism and tensioner mounting screws. Slide both to desired position and reinstall screws.
- To decrease the degree of door opening, move stop pin to desired position

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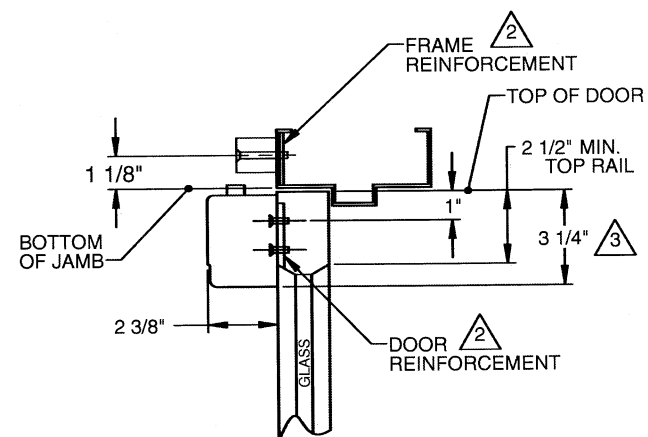


NOTES:

1. RIGHT HAND DOOR SHOWN, LEFT HAND OPPOSITE
2. REINFORCE METAL DOORS AND FRAMES PER ANSI A250.8 AND SDI-100, 12 GAUGE RECOMMENDED.
3. USE 1431-J PLATE WHEN CLOSER IS VISIBLE THROUGH GLASS
4. MAXIMUM OPENING POSITION: 125°
5. HOLD OPEN RANGE: 80° - 115° (HOLDER MODELS ONLY)
6. AUXILIARY STOP REQUIRED

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DATA SHEET

421 SERIES DOOR CLOSER WITH CTB OR
CHTB ARMS - PULL SIDE APPLICATION

RELEASE DATE
8 MAY 2007
TEMPLATE NO. A7960 A