



D-1512

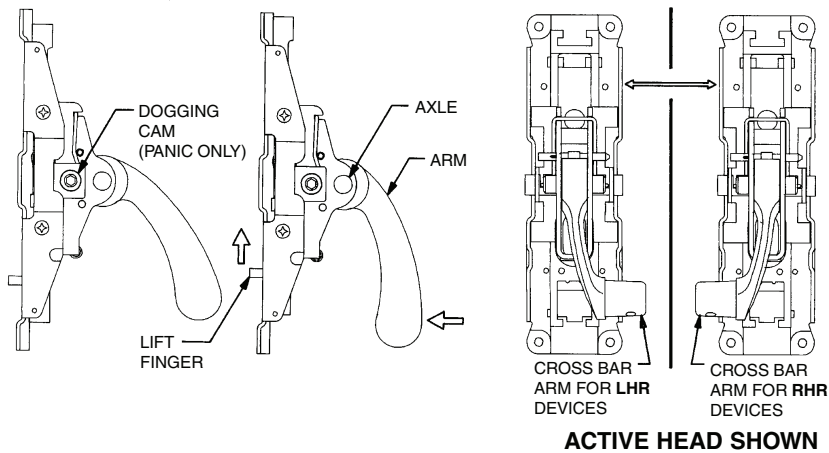
FALCON®

# 8 REVERSING INSTRUCTIONS

## TO REVERSE THE HANDING OF A (F)XX-C-WDC-LBR DEVICE

NOTE: TO REVERSE TRIM, REFER TO SEPARATE INSTALLATION SHEETS.

1. REMOVE FOUR SCREWS (NOT SHOWN) AND CHASSIS COVER FROM BOTH ACTIVE AND INACTIVE HEADS.
2. SLIDE CHASSIS COVERS BACK AND REMOVE AXLE FROM CROSS BAR ARM.
3. REMOVE CHASSIS COVERS FROM HEADS.
4. SWITCH ARMS FROM ACTIVE TO INACTIVE HEADS.
5. RE-INSTALL AXLE THRU HEADS AND CROSS BAR ARMS.
6. CHECK FOR PROPER FUNCTION.
7. PROCEED WITH DEVICE INSTALLATION.



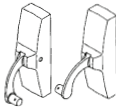
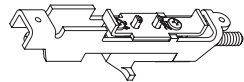
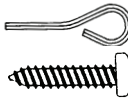

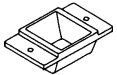



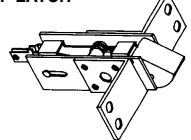
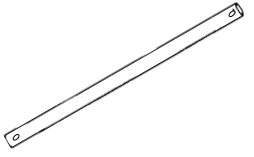
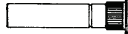





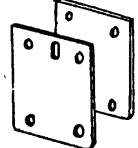

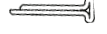

## F-XX-C-WDC-LBR & XX-C-WDC-LBR EXIT DEVICES

### INSTALLATION INSTRUCTIONS

# 1 PARTS CHECK

- 1) MAKE SURE THE CORRECT DEVICE IS BEING USED AND IS THE CORRECT HANDING (SEE PAGE 12 FOR REVERSING INSTRUCTIONS).
- 2) MAKE SURE ALL NEEDED PARTS ARE ON HAND.

NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS

<b>1. (F) XX-C-WDC-LBR DEVICE</b>  NOTE: DEVICE IS FIELD REVERSIBLE	<b>5. CENTERSLIDE</b> 	<b>8. SCREW PACK</b> DOGGING KEY (1 QTY) PANIC ONLY  #10x1-1/4" PPHSMS (8 QTY) 
<b>2. 4188 STRIKE</b> 	<b>6. TOP ROD</b> (37-1/4" FOR 7'0" DOOR) 	#10-24x3/4" FPHMS (4 QTY)  #8-32x3/8" UFPHMS (2 QTY) 
<b>3. TOP LATCH</b> 	<b>7. CROSSBAR</b> 	SEX BOLT (6 QTY) 1/4"-20 THREAD  #10x1-1/4" FPHSMS (9 QTY)  1/4" C'SK FINISH WASHER (4 QTY)  1/4"-20x3/4" FPHMS (4 QTY) 
<b>4. TOP LATCH REINFORCING PLATES &amp; CENTERSLIDE MOUNTING PLATE</b>  CENTERSLIDE MOUNTING PLATE 	 TOP LATCH REINFORCING PLATES	SPECIAL SCREW (P/N 4836 - 2 QTY)  COTTER KEY (1 QTY)  RELEASE BRACKET (1 QTY) 

- 3) MAKE SURE OUTSIDE TRIM (IF BEING USED) HAS BEEN PROVIDED AND IS THE CORRECT HANDING.  
NOTE: L-CONTROL OR S-CONTROL TRIMS CANNOT BE REVERSED

Customer Service

1-877-671-7011 www.allegion.com/us

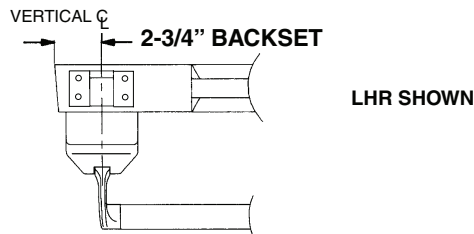


## 2 DOOR LAYOUT

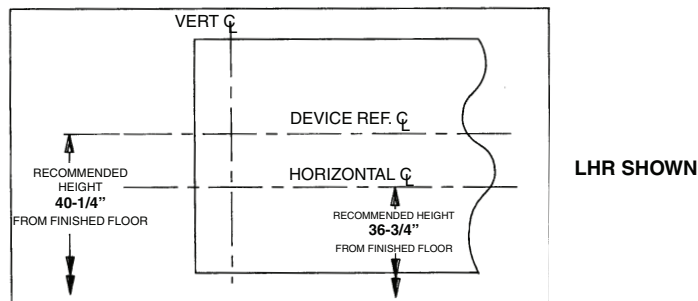
**NOTE: FOR FACTORY PREPARED DOORS, VERIFY LAYOUT.**

- 1) DOOR MUST BE FITTED AND HUNG PROPERLY BEFORE PROCEEDING.
- 2) MARK VERTICAL  $\mathcal{C}$ , DEVICE REF.  $\mathcal{C}$  AND HORIZONTAL  $\mathcal{C}$  ON DOOR AND FRAME. (SEE FIGURES AND CHART BELOW)

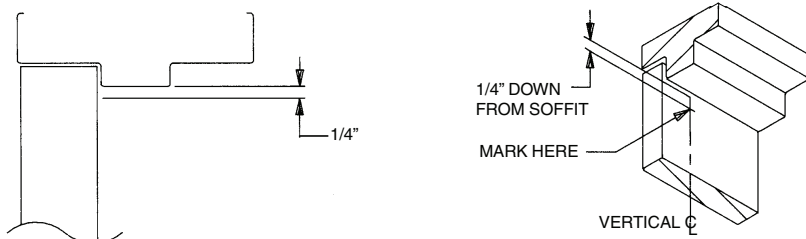
### A. VERTICAL $\mathcal{C}$ .



### B. DEVICE REF. $\mathcal{C}$ AND HORIZONTAL $\mathcal{C}$ .

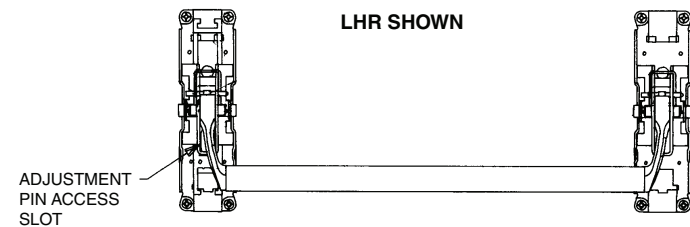


- 3) MARK LOCATION OF RELEASE BRACKET ACCESS HOLE ON VERTICAL  $\mathcal{C}$  AT TOP OF DOOR AS SHOWN BELOW.



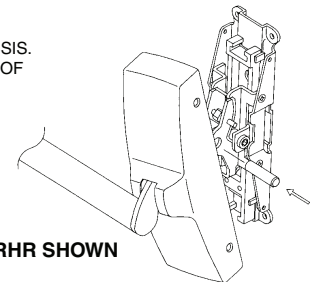
## 7 ADJUSTMENT

- 1) WITH THE LATCH BOLT PROJECTED, **SLOWLY** DEPRESS CROSS BAR. TOP LATCH BOLT SHOULD REMAIN IN RETRACTED POSITION. IF NOT, TURN TOP ADJUSTMENT PIN COUNTER CLOCKWISE BY 1/2 TURN AND **SLOWLY** PUSH CROSS BAR, TOP LATCH BOLT SHOULD REMAIN IN RETRACTED POSITION. IF NOT, REPEAT THIS PROCESS UNTIL TOP LATCH BOLT REMAINS RETRACTED.



- 2) RELEASE TOP LATCH BOLT USING TOOL. OPERATE DEVICE SEVERAL TIMES TO CHECK ADJUSTMENT BY **SLOWLY** PUSHING ON CROSS BAR, CHECKING TOP LATCH BOLT RETRACTION, AND THEN RELEASING THE TOP LATCH BOLT EACH TIME.
- 3) CHECK DOGGING OPERATION (PANIC APPLICATION ONLY).
  - A) PUSH CROSS BAR, THEN INSERT AND TURN DOGGING KEY CLOCKWISE. IF YOU CANNOT TURN DOGGING KEY WHILE PUSHING CROSS BAR, REDUCE THE TOP LATCH BOLT PROJECTION BY USING THE ADJUSTMENT PINS IN THE CENTERSLIDE (REFER TO STEP 1 ABOVE AND PAGE 7, STEP 2B). REPEAT UNTIL CROSS BAR IS DOGGED AND LATCH BOLT IS HELD RETRACTED.
  - B) AFTER REMOVING THE DOGGING KEY, THE CROSS BAR SHOULD REMAIN RETRACTED.
  - C) RE-INSERT THE DOGGING KEY AND TURN IN OPPOSITE DIRECTION. CROSS BAR WILL "POP OUT".
  - D) FOR CYLINDER DOGGING, REFER TO INSTRUCTION D-4085.
- 4) INSTALL RELEASE BRACKET, REFER TO DRILLING TEMPLATE. ALLOW DOOR TO CLOSE TO SEE IF THE PLUNGER WILL RELEASE THE TOP LATCH BOLT. IF THE PLUNGER STOPS THE DOOR FROM SWINGING TO THE DOOR STOP, ADJUST THE PLUNGER IN USING AN ALLEN WRENCH; IF THE TOP LATCH BOLT DOES NOT RELEASE, ADJUST THE PLUNGER OUT.
- 5) CHECK DEVICE FOR SMOOTH OPERATION AND LATCH BOLT ENGAGEMENT.
- 6) RE-INSTALL CHASSIS COVER.
  - A) REMOVE AXLES FROM BOTH ACTIVE AND INACTIVE CHASSIS.
  - B) REMOVE CROSSBAR AND CROSSBAR ARMS FROM BOTH CHASSIS.
  - C) SLIDE CROSSBAR ARMS INTO RECTANGULAR CUT-OUT IN TOP OF CHASSIS COVER.

- NOTE: THE 1/2" DIA. HOLE IN THE CHASSIS COVER ON BOTH COVERS SHOULD FACE EACH OTHER.**
- D) INSERT CROSSBAR ARMS INTO CHASSIS AND INSERT AXLES.
  - E) SLIDE CHASSIS COVER OVER CHASSIS AND ATTACH WITH 4 (PER HEAD) #8-32x1/4" UFPHMS.

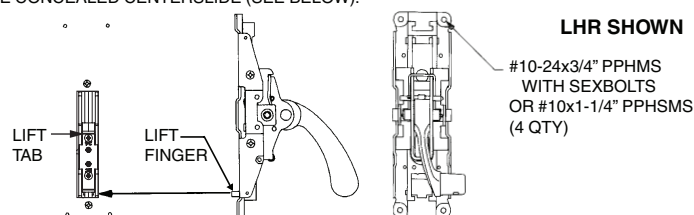


- 7) FOR FIRE RATED DEVICES ONLY, REFER TO INSTRUCTION W-5494 FOR SPRING BOLT ASSEMBLY.

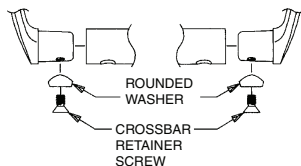
- 13) INSERT A TOOL INTO THE RELEASE BRACKET ACCESS HOLE AND PUSH THE TOP LATCH BOLT RETAINER. THE LATCH BOLT SHOULD RELEASE, PULL DOWN ON THE LIFT TAB AND THE LATCHBOLT SHOULD GO INTO THE FULLY PROJECTED POSITION.
- 14) REPEAT STEPS 12 AND 13 SEVERAL TIMES, CHECKING FOR BINDS OR ROUGH ACTION IN THE CENTERSLIDE AND TOP LATCH.
- 15) RE-HANG THE DOOR IN THE OPENING

## 6 DEVICE AND STRIKE INSTALLATION

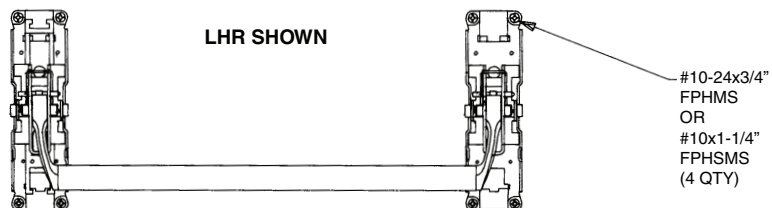
- 1) SURFACE MOUNT DEVICE USING FOUR #10x1-1/4" PPHSMS (OR MOUNT TO SEXBOLTS USING #10-24x3/4" PPHSMS) NOTING THE ALIGNMENT BETWEEN THE LIFT FINGER ON THE DEVICE HEAD AND THE LIFT TAB ON THE CONCEALED CENTERSLIDE (SEE BELOW).



- 2) REMOVE CROSSBAR RETAINER SCREW AND ROUNDED WASHER FROM XX CROSSBAR ARMS. SLIDE THE CROSSBAR OVER BOTH THE ACTIVE AND INACTIVE ARMS AND ATTACH WITH CROSSBAR RETAINER SCREW AND ROUNDED WASHER.



- 3) LOCATE, MARK AND DRILL INACTIVE HEAD MOUNTING HOLES.
  - A) LEVEL CROSSBAR ON DOOR AND MARK CENTER OF FOUR MOUNTING HOLES.
  - B) PREPARE HOLES FOR MOUNTING SCREWS:
    - FOR SHEET METAL SCREWS: DRILL 9/64" DIA. HOLES
    - FOR MACHINE SCREWS WITH SEXBOLTS: DRILL 7/32" DIA. HOLE THRU DOOR AND DRILL 3/8" DIA. HOLE ON OPPOSITE SIDE OF DOOR USING 7/32" DIA. HOLE AS PILOT.

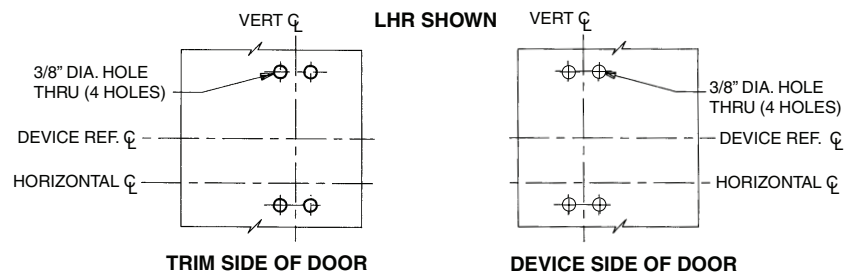


- 4) INSTALL TOP STRIKE USING TWO #10-24x3/4" FPHMS, REFER TO DRILLING TEMPLATE.

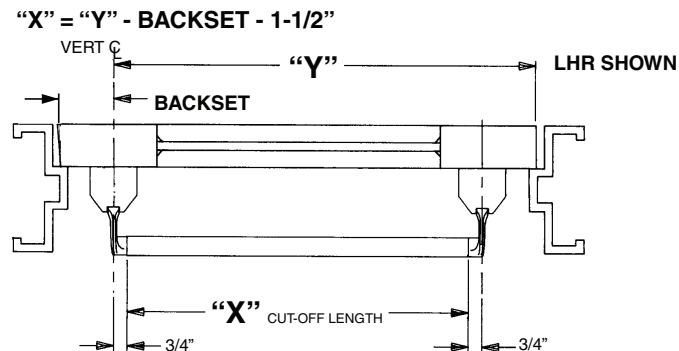
PAGE 10

## 3 DOOR & HARDWARE PREPARATION

- 1) REMOVE DOOR FROM OPENING AND LAY FLAT.
- 2) LAY OUT DRILLING TEMPLATES FROM THE CENTER OF THIS BOOK ALONG HORIZONTAL AND VERTICAL CENTERLINES. CENTER PUNCH AND PREPARE HOLES AS SPECIFIED.
- 3) PREPARE DOOR FOR TOP LATCH AND TOP LATCH REINFORCING PLATES AS SHOWN ON DRILLING TEMPLATES.
- 4) PREPARE FRAME FOR TOP STRIKE PER DRILLING TEMPLATES.
- 5) DRILL 1/2" DIA. RELEASE BRACKET ACCESS HOLE AT LOCATION SPECIFIED ON PAGE 2, STEP 3.
- 6) IF USING OUTSIDE TRIM, PREPARE TRIM SIDE OF DOOR USING SEPARATE TRIM DIRECTION SHEET. FOR SEXBOLT INSTALLATIONS, PREPARE DOOR AS SHOWN BELOW.

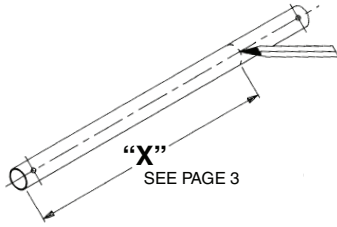


- 7) DETERMINE CROSSBAR LENGTH.
  - A. MEASURE DISTANCE BETWEEN VERTICAL CL AND EDGE OF DOOR (DIMENSION "Y" BELOW).
  - B. CALCULATE CROSSBAR LENGTH "X" USING FORMULA BELOW:

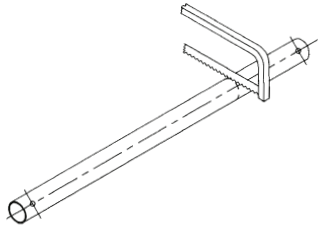


PAGE 3

- 8) IF CROSSBAR IS LONGER THAN "X", CUT THE DEVICE.  
 A. MARK CROSSBAR TO LENGTH "X".

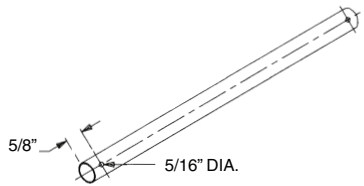


- B. CUT CROSSBAR TO MARKED DIMENSION AND REMOVE BURRS.



**NOTE: FACTORY RECOMMENDS SAWING RATHER THAN CUT GRIND TO SIZE. GRINDING CAN DAMAGE THE FINISH OF THE DEVICE AND SAWING RESULTS IN LESS DAMAGE TO THE DEVICE'S FINISH.**

- C. DRILL A 5/16" DIA. HOLE 5/8" FROM THE JUST CUT END OF THE CROSSBAR.



- 9) IF DOOR OPENING IS NOT 7'0", DETERMINE TOP ROD LENGTH BASED ON A 40-1/4" DEVICE REF.  $\zeta$  FROM THE FINISHED FLOOR.

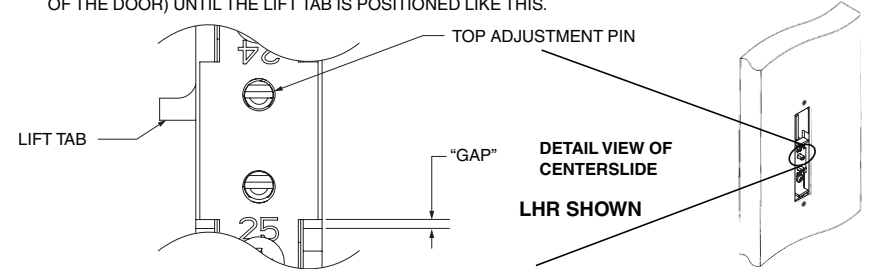
- A. FOR DOOR OPENINGS UNDER 7'0":

1. SUBTRACT DOOR OPENING FROM 7'0".
2. SUBTRACT ANSWER FROM PREVIOUS STEP FROM 37-1/4" TO DETERMINE TOP ROD LENGTH.  
 (EXAMPLE: 6'8" OPENING: 7'0" - 6'8" = 4"; 37-1/4" - 4" = 33-1/4" TOP ROD)

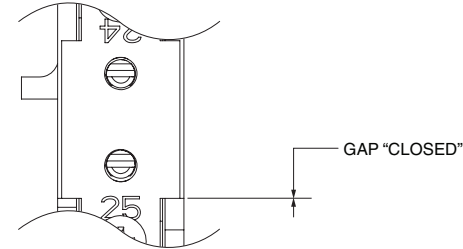
- B. FOR DOOR OPENINGS OVER 7'0":

1. SUBTRACT 7'0" FROM DOOR OPENING.
2. ADD ANSWER FROM PREVIOUS STEP TO 37-1/4" TO DETERMINE TOP ROD LENGTH.  
 (EXAMPLE: 8'10" OPENING: 8'10" - 7'0" = 22"; 37-1/4" + 22" = 59-1/4" TOP ROD)

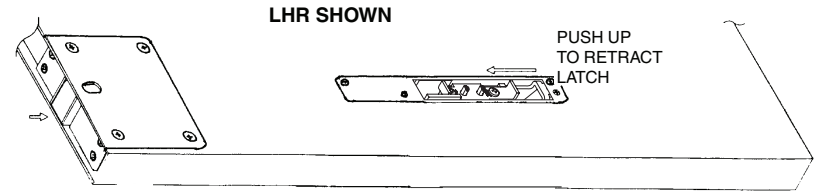
- 10) WITH THE TOP LATCH PROJECTED, TURN THE TOP ADJUSTMENT PIN CLOCKWISE (MOVING THE LIFT TAB TOWARDS THE TOP LATCH) OR COUNTER-CLOCKWISE (MOVING THE LIFT TAB TOWARDS THE BOTTOM OF THE DOOR) UNTIL THE LIFT TAB IS POSITIONED LIKE THIS.



- 11) TURN THE TOP ADJUSTMENT PIN COUNTER-CLOCKWISE UNTIL THE LIFT TAB MOVES TOWARDS THE BOTTOM OF THE DOOR AND CLOSSES THE "GAP".

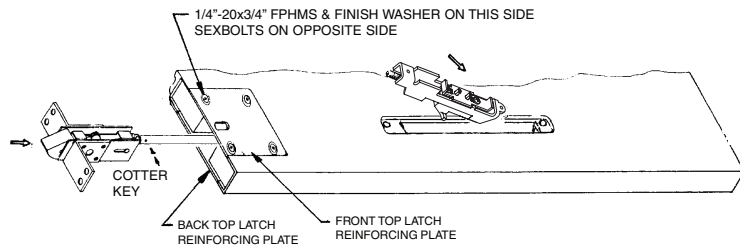


- 12) LIFT UP ON THE LIFT TAB UNTIL THE TOP LATCH BOLT IS FULLY RETRACTED. THEN, ATTEMPT TO SLIDE THE CENTERSLIDE THE OPPOSITE DIRECTION, THE CENTERSLIDE SHOULD NOT MOVE AND THE TOP LATCH BOLT SHOULD REMAIN IN THE RETRACTED POSITION. IF NOT, TURN THE TOP ADJUSTMENT PIN ONE QUARTER TURN COUNTER-CLOCKWISE AND TRY AGAIN. REPEAT UNTIL THE TOP LATCH BOLT REMAINS RETRACTED.

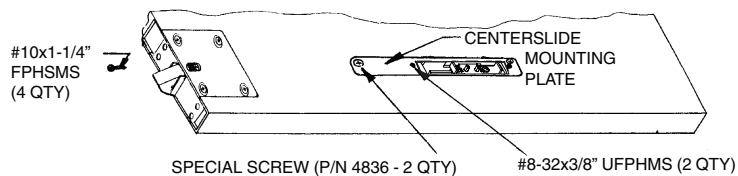


# 5 CONCEALED VERTICAL ROD ASSEMBLY INSTRUCTION

- 1) INSTALL TOP LATCH REINFORCING PLATES WITH 1/4"-20x3/4" FPHMS, 1/4" FINISH WASHER AND SEXBOLTS. BE SURE THAT THE TOP LATCH REINFORCING PLATE WITH THE OVAL CUT-OUT, AS WELL AS THE FINISH WASHERS, ARE ON THE INTERIOR SIDE OF THE DOOR.
- 2) LAY CENTERSLIDE ASSEMBLY INTO CENTERSLIDE PREP AREA OF DOOR. SHIFT UNIT DOWN (INSIDE OF DOOR) UNTIL IT WILL NOT GO ANY FURTHER.
- 3) CONNECT TOP LATCH TO TOP ROD USING COTTER KEY. SECURE ASSEMBLY BY BENDING COTTER KEY.
- 4) SLIDE IN TOP LATCH & TOP ROD ASSEMBLY FROM TOP OF DOOR UNTIL IT CONTACTS CENTERSLIDE SCREW.
- 5) CHECK ALIGNMENT OF TOP LATCH & TOP ROD ASSEMBLY TO CENTERSLIDE CONNECTOR SCREW. WHEN PROPERLY ALIGNED, TURN ADJUSTMENT SCREW FOR TOP ROD ADJUSTMENT CLOCKWISE, WHICH WILL THREAD THE TOP LATCH & TOP ROD ASSEMBLY ONTO THE CENTERSLIDE SCREW. TURN THE ADJUSTMENT SCREW ABOUT 10 TURNS.



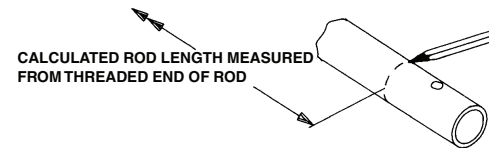
- 6) INSTALL CENTERSLIDE TO CENTERSLIDE MOUNTING PLATE WITH #8-32x3/8" UFPHMS.
- 7) IF USING OUTSIDE TRIM, INSTALL PER SEPARATE DIRECTIONS; OTHERWISE, INSERT SEXBOLTS INTO 3/8" DIA. HOLES. THRU-BOLT CENTERSLIDE MOUNTING PLATE TO TRIM OR SEXBOLTS USING SPECIAL SCREW (P/N 4836).
- 8) TURN TOP ADJUSTMENT SCREW UNTIL TOP LATCH IS SEATED INTO TOP PREPARATION.
- 9) INSTALL TOP LATCH USING #10x1-1/4" FPHSMS (QTY. 4).



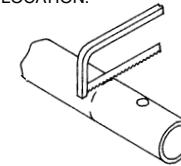
## 10) MODIFY TOP ROD TO REQUIRED LENGTH.

A. FOR TOP RODS THAT ARE TOO LONG, FOLLOW PROCEDURE BELOW TO CUT ROD TO SIZE.

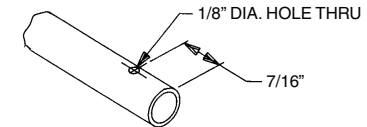
1. MARK ROD TO REQUIRED LENGTH.  
NOTE: ROD MUST BE MEASURED FROM THREADED PORTION OF ROD.  
**DO NOT CUT ROD AT END WITH INTERNAL THREADS.**



2. CUT ROD AT MARKED LOCATION.



3. DRILL COTTER KEY CONNECTION HOLE.  
DRILL 1/8" DIA. HOLE THRU ON VERTICAL ROD 7/16" FROM END OF ROD JUST CUT.



B. FOR TOP RODS THAT ARE TOO SHORT, FOLLOW PROCEDURE BELOW:  
1. ATTACH EXTENSION RODS TO THREADED SECTION OF TOP ROD.

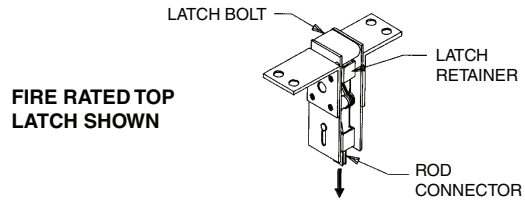


2. CHECK TOP ROD AND EXTENSION ROD ASSEMBLY FOR STRAIGHTNESS.
3. FOLLOW INSTRUCTIONS TO MARK, CUT AND DRILL TOP ROD (SEE ABOVE).

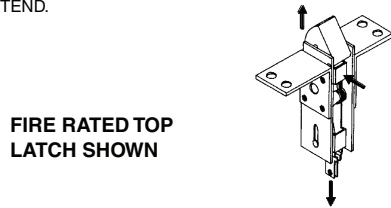
# 4 OPERATIONAL REVIEW

## 1) TOP LATCH FUNCTION.

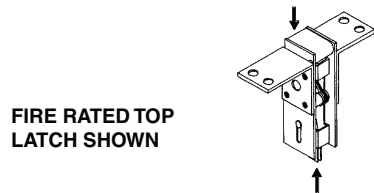
A. WITH THE LATCH BOLT RETRACTED, PULL DOWN ON THE ROD CONNECTOR. THE LATCH BOLT WILL REMAIN RETRACTED.



B. PULL DOWN ON THE ROD CONNECTOR AND PUSH ON THE LATCH RETAINER. THE LATCH BOLT WILL EXTEND.

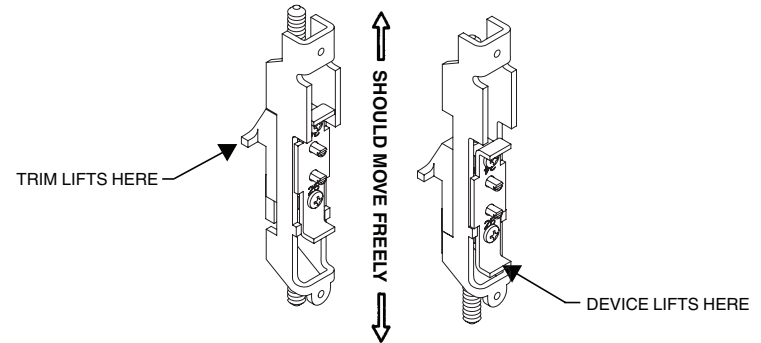


C. PUSH UP ON ROD CONNECTOR. THE LATCH BOLT WILL RETRACT AND REMAIN RETRACTED.

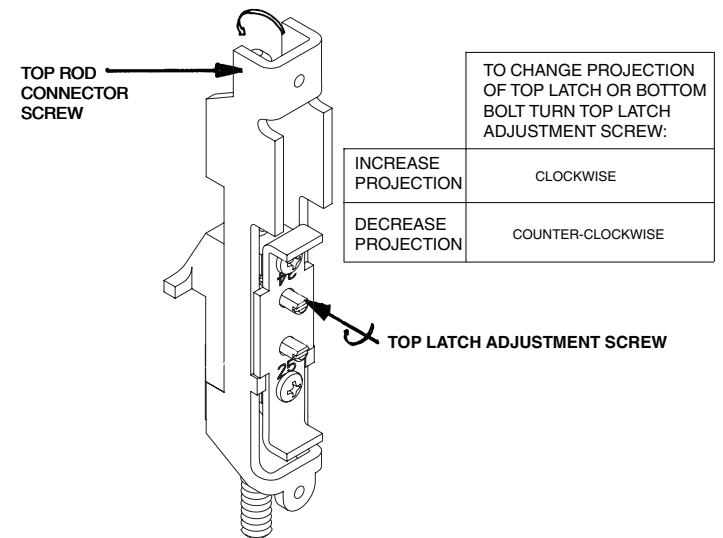


## 2. CENTERSLIDE FUNCTION.

A. PLACE THE CENTERSLIDE IN YOUR HAND. LIFT UP ON THE LIFT TAB TO CHECK IF THE CENTERSLIDE CAN MOVE FREELY (AS SHOWN BELOW). ALSO, NOTE THE LOCATIONS SHOWN FOR DEVICE LIFTING AND TRIM LIFTING.



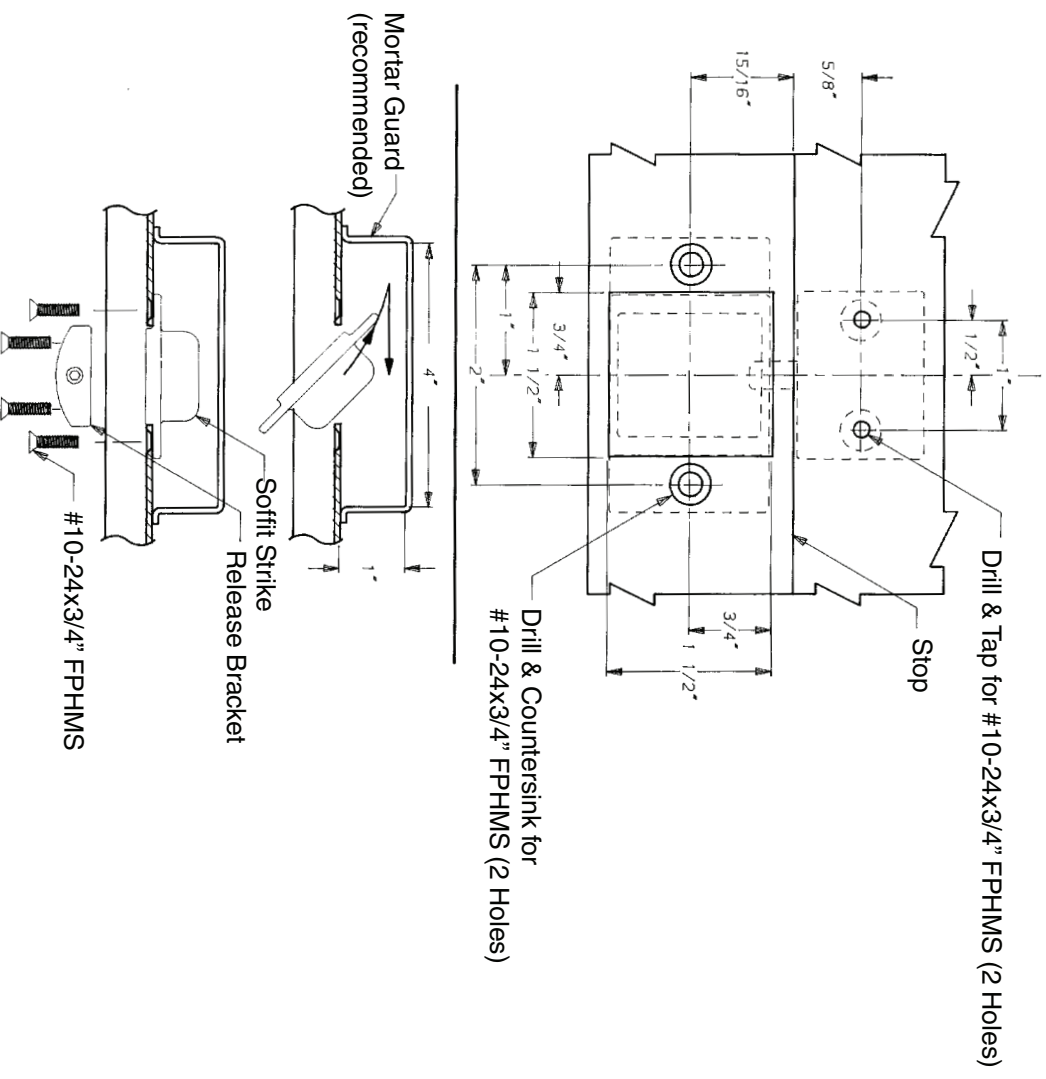
B. USING A SMALL FLAT-BLADE SCREW DRIVER, PUSH IN GENTLY ON THE TOP ADJUSTMENT PINS AND TURN. THE ROD CONNECTOR SCREW WILL ROTATE. (THIS IS THE VERTICAL ROD ADJUSTMENT FEATURE).



# F-XX-C-WDC-LBR & XX-C-WDC-LBR

## DRILLING TEMPLATE

---



# AUXILIARY FIRE LATCH FOR LBR DEVICES

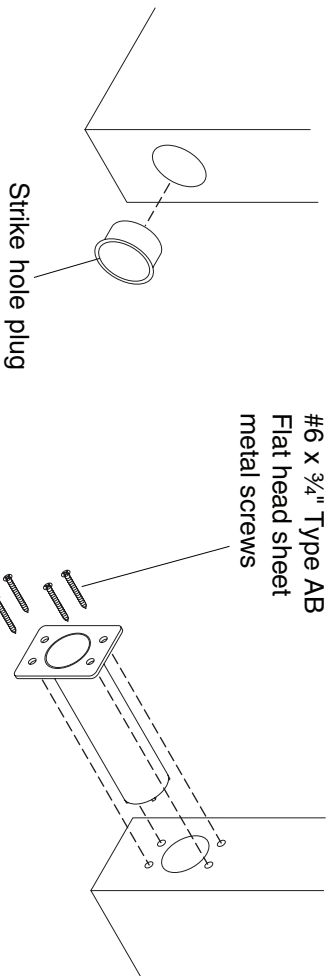
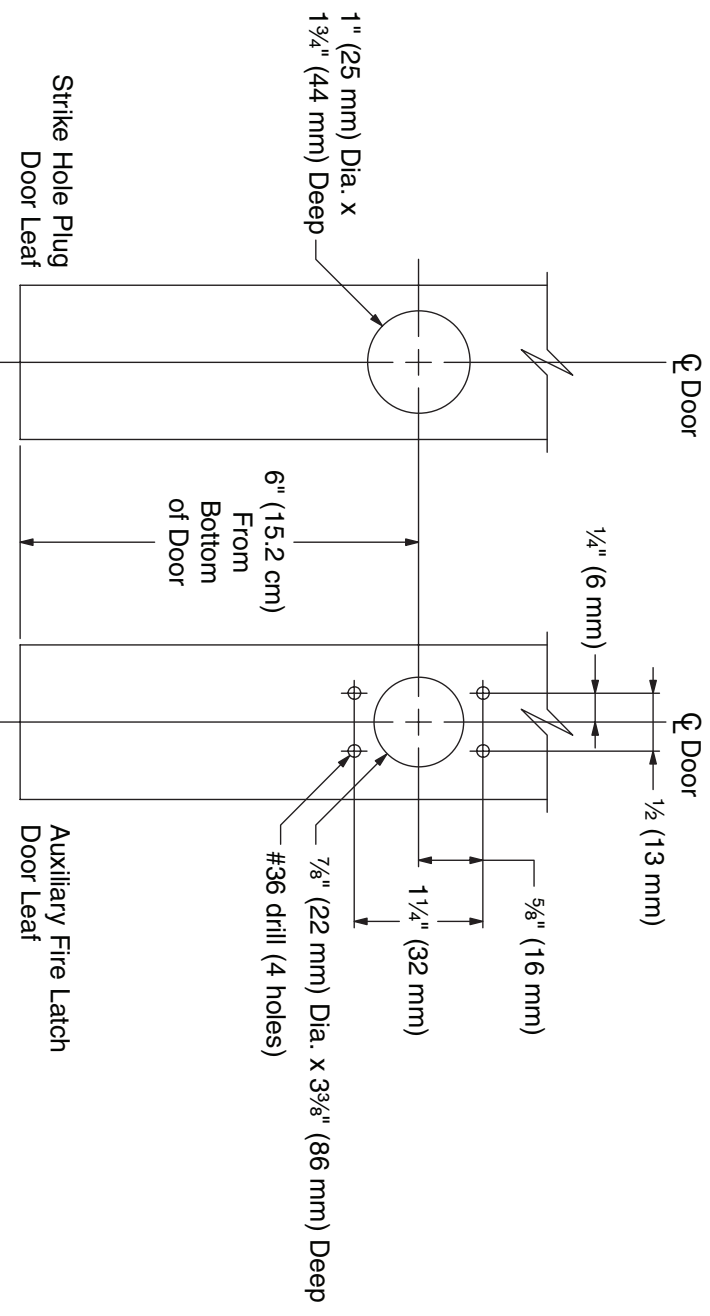
## INSTRUCTIONS

1. Prepare edge of door for auxiliary fire latch, and prepare edge of opposite door with strike hole (Figure A). It does not matter which door the auxiliary fire latch is installed on.
2. Install auxiliary fire latch with four #6 x 3/4" Type AB flat head sheet metal screws (Figure B).
3. Install strike hole plug (Figure B).



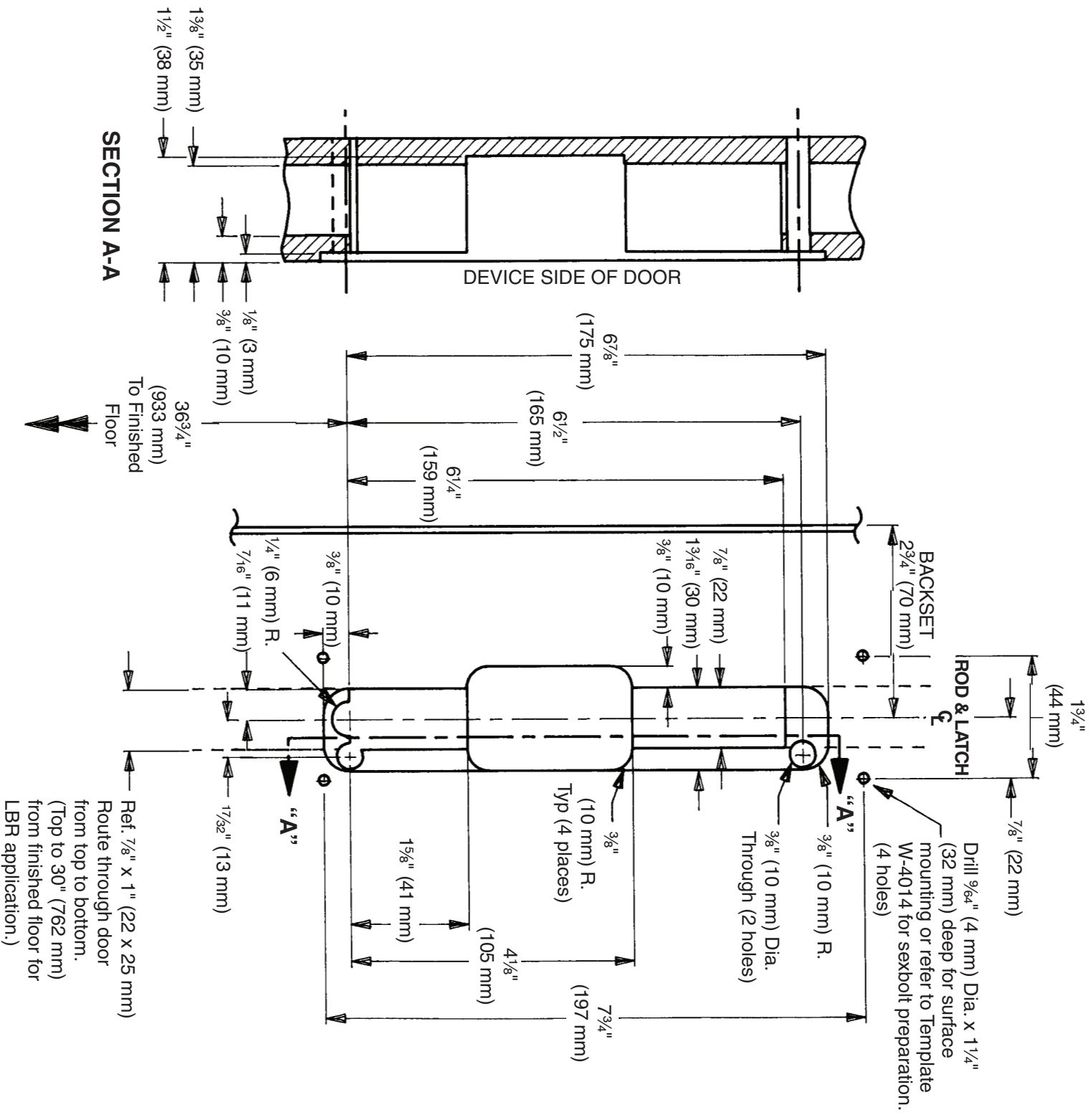
## NOTE

The auxiliary fire latch assembly keeps doors in alignment during a fire. In a fire, the black cap on the face of the auxiliary fire latch and the strike hole plug melt to allow the auxiliary bolt to extend into the strike hole in the opposite door leaf. **Do not cover the door gap at the auxiliary fire latch with a door edge guard or similar device.**



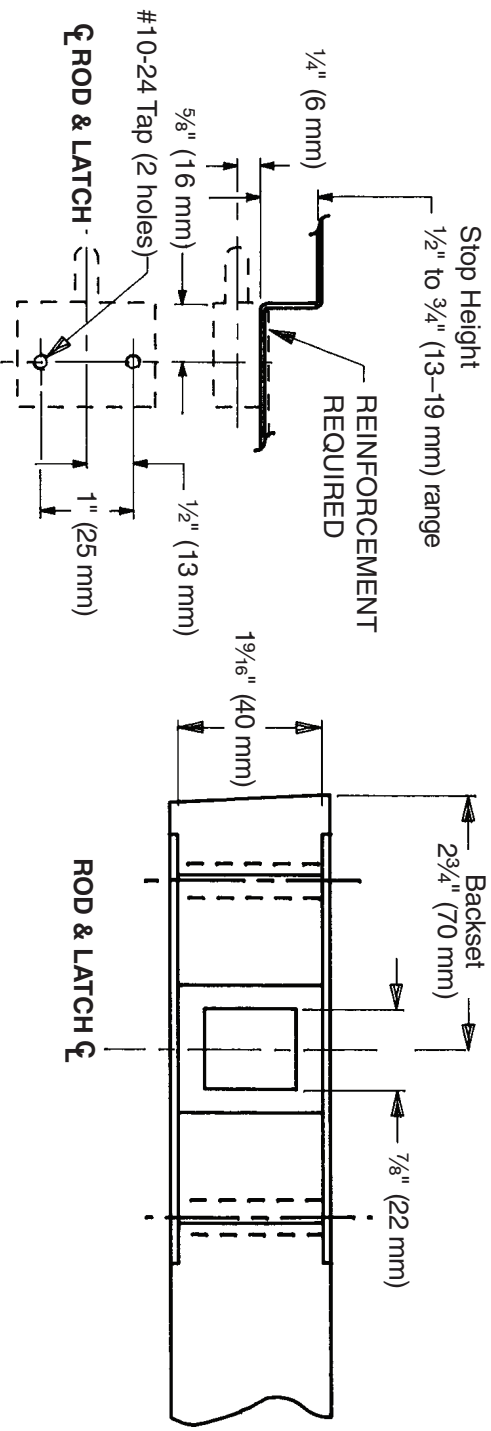


# CENTER SLIDE PREPARATION



- Device Ref.  $\bar{C}$  is 40 1/4" (102.2 cm) from the finished floor.
- Crossbar is 37 1/4" (94.6 cm) from the finished floor.

# TOP LATCH PREPARATION



RELEASE PLUNGER DETAIL

