XX SERIES THREE POINT LATCH **PANIC & FIRE EXIT DEVICES**



D-1060-B

05-29-2015

Date:

INSTALLATION INSTRUCTIONS

PARTS CHECK

- 1) MAKE SURE THE CORRECT DEVICE IS BEING USED, AND IS THE CORRECT HANDING (SEE PAGE #15 FOR REVERSING INSTRUCTIONS).
- 2) MAKE SURE ALL NEEDED PARTS ARE ON HAND.
 - NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS.

1) (F) XX-TPL DEVICE AND CROSSBAR	4) LATCHES & BOTTOM BOLTS	
	TOP LATCH BOTTOM BOLT	NOTE: MORTISE LOCK IS FIELD REVERSIBLE
NOTE: DEVICE IS FIELD REVERSIBLE	5) SCREW PACK FOR PANIC DEVICE	7) SCREW PACK FOR FIRE DEVICE
2) STRIKE	DOGGING KEY (1 QTY)	#10-24x3/4" FPHMS (6 QTY)
	#10x1-1/4" PPHSMS	#10-24x3/4" PPHSMS (12 QTY)
4163/3788 2130 1279 (F) 1280	(12 QTY)	1/8"x1" COTTER KEY
2126A 4155 1281	1/8"x1" COTTER KEY (1 QTY) ROD GUIDE COVER (2 QTY)	(1 QTY) ROD GUIDE COVER (2 QTY)
(F)18-TPL FIRE TOP 3788	ROD GUIDE BRACKET (2 QTY)	ROD GUIDE BRACKET (2 QTY)
MIDDLE 1279 OPT. MIDDLE F1280 BOTTOM 2130 PANIC TOP 4163 MIDDLE 1279		ROD GUIDE SUPPORT (2 QTY)
BOTTOM 2130 OPT. BOTTOM 4155 OPT. BOTTOM 2126A	#8-32x1/4" UFPHMS (4 FINISHED)	#8-32x1/4" UFPHMS (4 FINISHED)
OPT. MIDDLE 1280 OPT. MIDDLE 1281	#12-24x1/4" UFPHMS (4 FINISHED)	#12-24x1/4" UFPHMS (4 FINISHED)
3) VERTICAL RODS (LENGTHS FOR 7'0" OPENINGS) TOP ROD= 35"	LIFT FINGER (1 QTY)	
BOTTOM ROD = 36-1/2" (WITH DEAD BOLT)	#10-24x1/2" FPHMS w/NYLON PATCH (1 QTY)	#10-24x1/2" FPHMS w/NYLON PATCH (1 QTY)
3) EDGE OF DOOR SHOULD BE PREPARED FOR MORTISE LOCK (SEE PAGE #7). 4) FRAME SHOULD BE PREPARED TO RECEIVE MORTISE STRIKE (SEE PAGE #7). 5) MAKE SURE OUTSIDE TRIM (IF BEING USED) HAS BEEN PROVIDED AND IS THE CORRECT HANDING.		

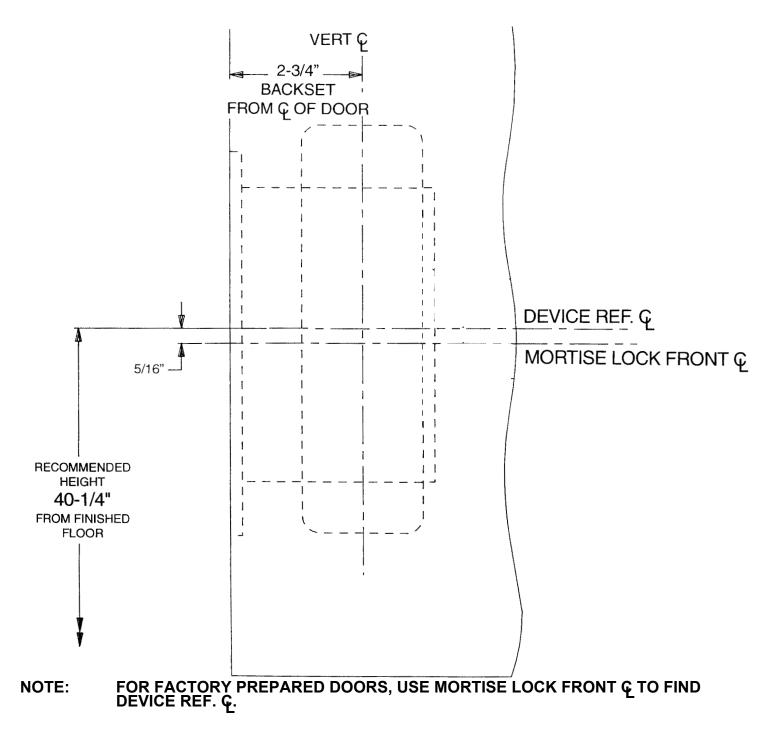


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(NOTE: FOR FACTORY PREPARED DOORS, VERIFY LAYOUT.)

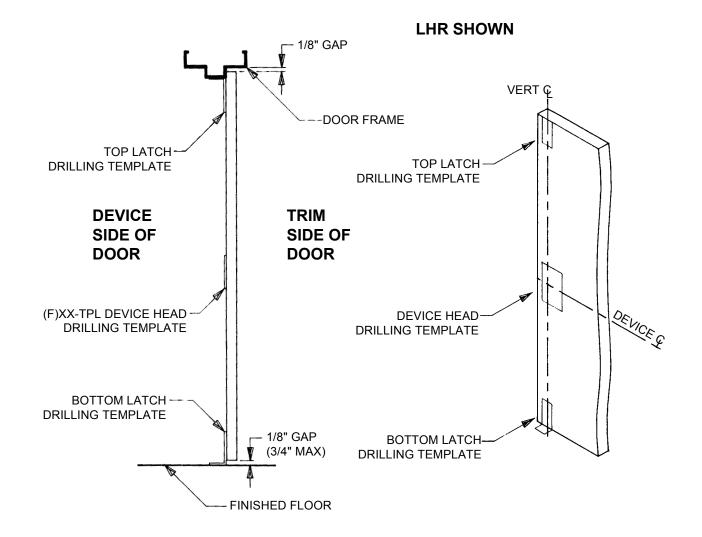
- 1) DOOR MUST BE FITTED AND HUNG PROPERLY BEFORE PROCEEDING.
- 2) MARK VERTICAL & AND DEVICE REF. ON DOOR AND FRAME (SEE FIGURES & CHART BELOW).





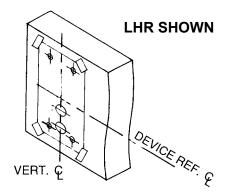
1) CHOOSE CORRECT DRILLING TEMPLATES FROM DRILLING TEMPLATE (DT-1060).

2) TAPE DRILLING TEMPLATE ON DOOR USING VERTICAL Q and Device Ref. Q (Refer to 2).

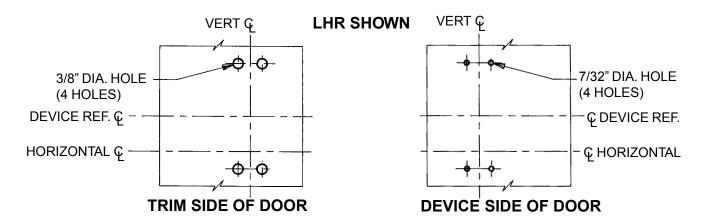


3) PREPARE HOLES FOR DEVICE, STRIKE AND LATCHES. FOR DEVICES WITH TRIM FUNCTIONS, PREPARE THE HOLE(S) ON THE DEVICE TEMPLATE DESCRIBED IN THE CHART BELOW. AFTER DRILLING HOLES, REMOVE THE DRILLING TEMPLATE.

DEVICE FUNCTION	DRILLING TEMPLATE HOLES
(F)XX-TPL-N	В
(F)XX-TPL-KE	A,B
(F)XX-TPL-LE	A,B

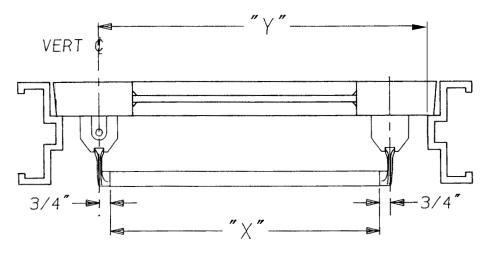


4) IF USING OUTSIDE TRIM, PREPARE DOOR USING SEPARATE TRIM DIRECTION SHEET. FOR SEXBOLT INSTALLATIONS, DRILL 3/8" DIAMETER HOLES ON TRIM SIDE OF DOOR ONLY (SEE DIAGRAM BELOW).



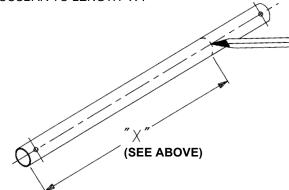
5) DETERMINE CROSSBAR LENGTH.

- A) MEASURE DISTANCE BETWEEN VERTICAL & AND EDGE OF DOOR.
- B) CALCULATE CROSSBAR LENGTH "X" USING FORMULA BELOW.

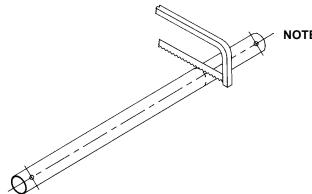


"X" = "Y" - 3-3/4"

6) IF CROSSBAR IS LONGER THAN "X", CUT THE CROSSBAR TO THE CORRECT LENGTH. A) MARK CROSSBAR TO LENGTH "X".

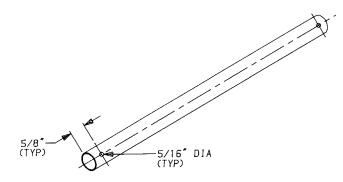


B) CUT CROSSBAR TO MARKED DIMENSION AND REMOVE BURRS.



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

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



NOTE: HOLE SHOULD BE IN-LINE WITH HOLE AT OPPOSITE END OF THE CROSSBAR.

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

A) FOR DOOR OPENINGS UNDER 7'0":

1) SUBTRACT DOOR OPENING FROM 7'0" OPENING.

2) SUBTRACT ANSWER FROM PART 1 FROM 35" TO DETERMINE TOP ROD LENGTH.

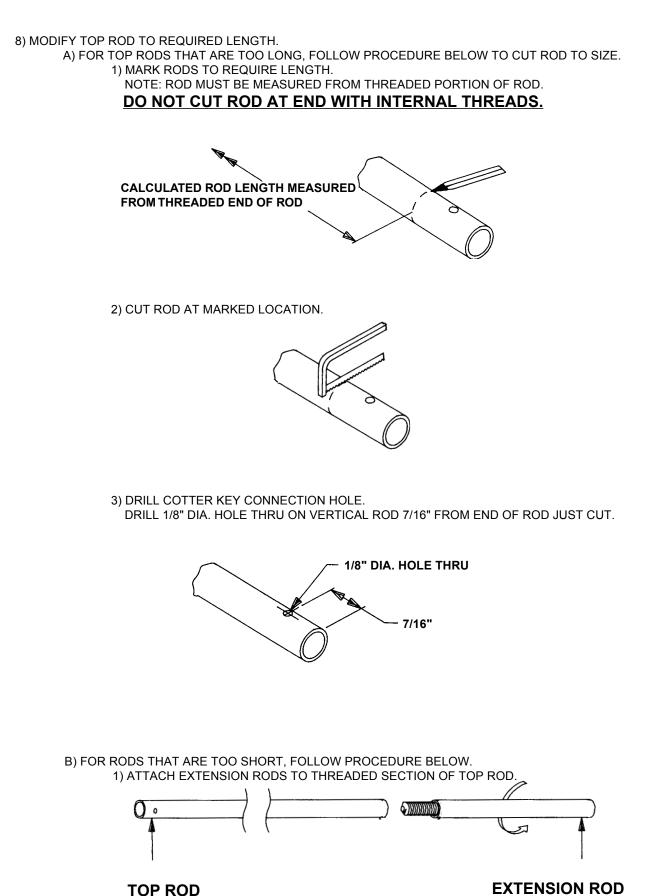
(EXAMPLE: 6'8" OPENING - 7'0"-6'8"= 4", 35"-4"=31" TOP ROD).

B) FOR DOOR OPENINGS ABOVE 7'0":

1) SUBTRACT 7'0" FROM DOOR OPENING.

2) ADD ANSWER FROM PART 1 TO 35" TO DETERMINE TOP ROD LENGTH.

(EXAMPLE: 8'10" OPENING - 8'10"-7'0" = 22", 35"+22"= 57" TOP ROD).

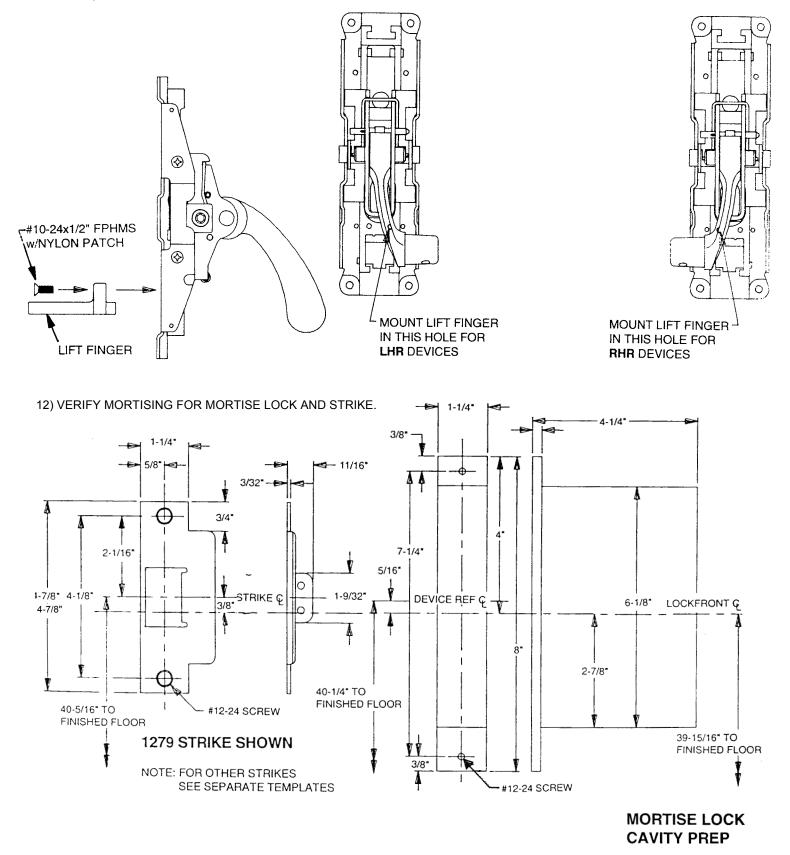


2) FOLLOW INSTRUCTIONS TO MARK, CUT & DRILL TOP ROD (SEE ABOVE).

11) INSTALL LIFT FINGER ONTO SLIDEBAR

A) PLACE LIFT FINGER INTO RECESS IN SLIDEBAR (ACCESSIBLE THROUGH CUTOUT IN BACK OF CHASSIS). B) POSITION LIFT FINGER AS SHOWN FOR HANDING REQUIRED.

C) ASSEMBLE LIFT FINGER WIHT #10-24x1/2" FPHMS WITH NYLON PATCH AND TIGHTEN SECURELY.

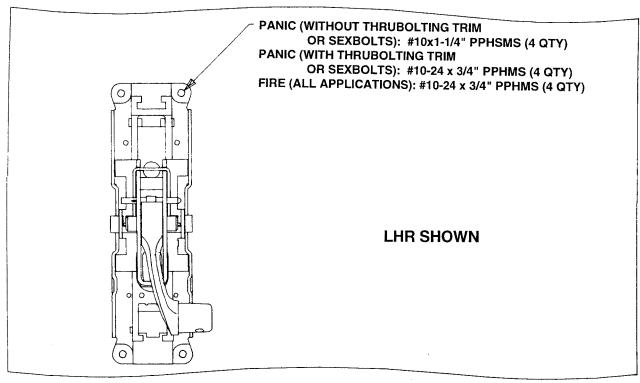


4 HARDWARE INSTALLATION

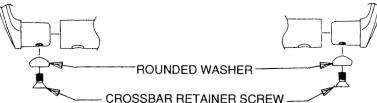
1) INSTALL MORTISE LOCK WITH 2 #12-24x1/2" UFPHMS SCREWS.

NOTE: LEAVE SCREWS LOOSE FOR EASIER DEVICE AND TRIM INSTALLATION.

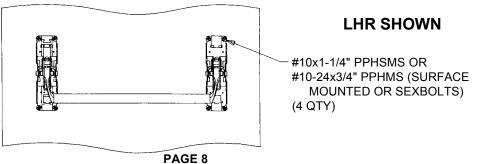
2) IF USING OUTSIDE TRIM OR SEXBOLTS, MOUNT TRIM PER DIRECTIONS IN TRIM BOX, OR INSTALL OUTSIDE SEX BOLTS.
3) EITHER SURFACE MOUNT DEVICE, OR THROUGHBOLT DEVICE TO TRIM OR SEXBOLTS (NOTE: FOR LOCKING TRIM, SEE PAGE #15 FOR LOCKING CAM AND LOCKING CAM OPERATOR POSITION).



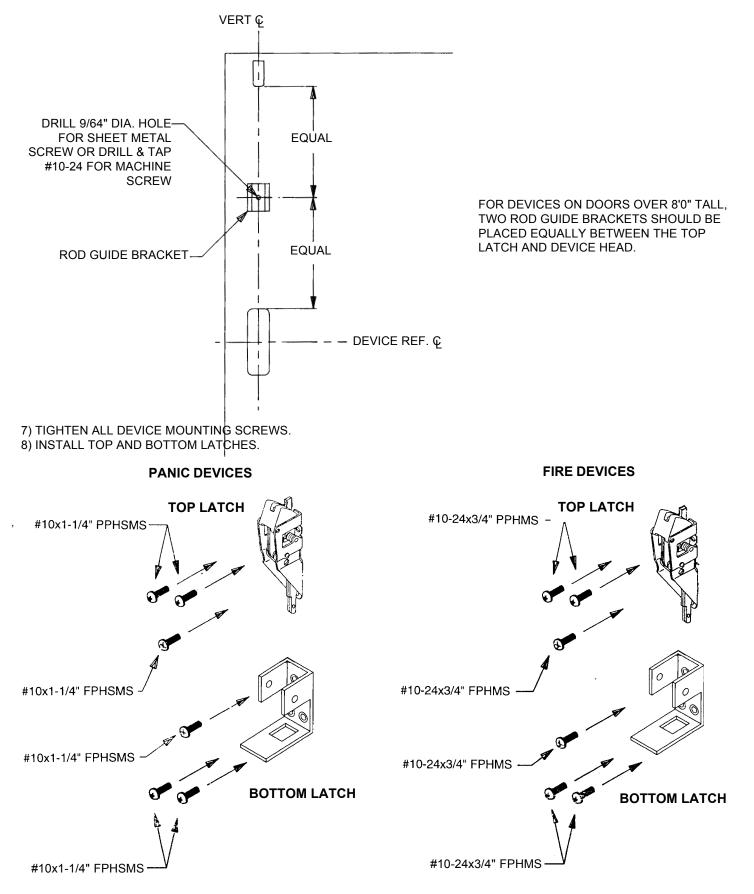
4) REMOVE CROSSBAR RETAINER SCREW AND ROUNDED WASHER FROM XX CROSSBAR ARMS. SLIDE THE CROSSBAR OVER BOTH THE ACTIVE AND INACTIVE ARMS AND ATTACH WITH CROSSBAR RETAINER SCREW AND ROUNDED WASHER.

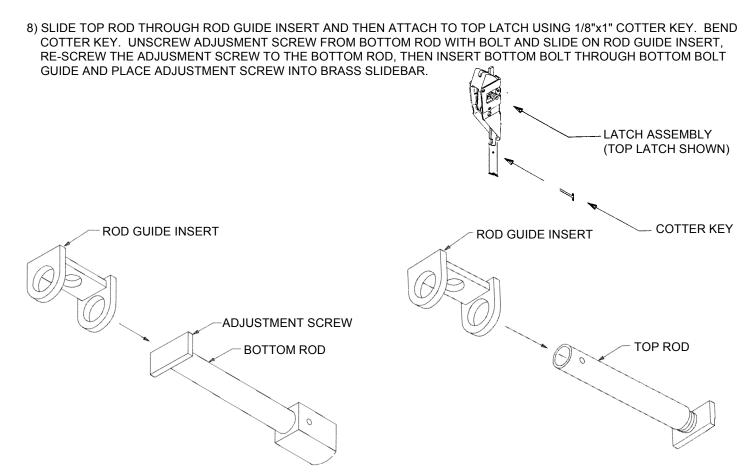


- 5) LOCATE, MARK, AND DRILL INACTIVE HEAD MOUNTING HOLES.
 - A) LEVEL CROSSBAR ON DOOR AND MARK CENTER OF FOUR MOUNTING HOLES.
 - B) DRILL 9/64" DIA. HOLES IF USING SHEET METAL SCREWS OR DRILL & TAP #10-24 IF USING MACHINE SCREWS OR DRILL 1/4" DIA. HOLE INSIDE AND 3/8" DIA. HOLE OUTSIDE FOR SEXBOLTS.

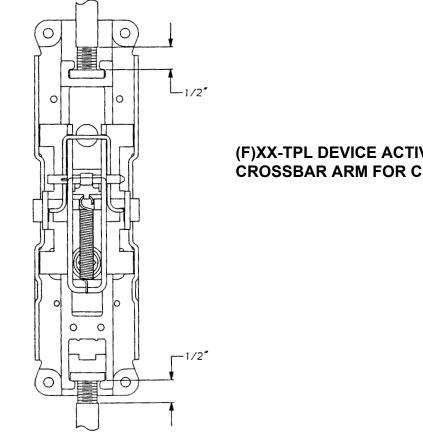


6) ATTACH ROD GUIDE BRACKETS TO DOOR ON VERTICAL & EQUIDISTANT BETWEEN THE LATCHES AND DEVICE HEAD.





9) TURN ADJUSTMENT SCREW UNTIL IT IS APPROXIMATELY 1/2" INTO THE VERTICAL ROD. SWING RODS SO THAT THE ADJUSMENT SCREW IS IN THE BRASS SLIDEBAR IN THE ACTIVE HEAD AS SHOWN BELOW.

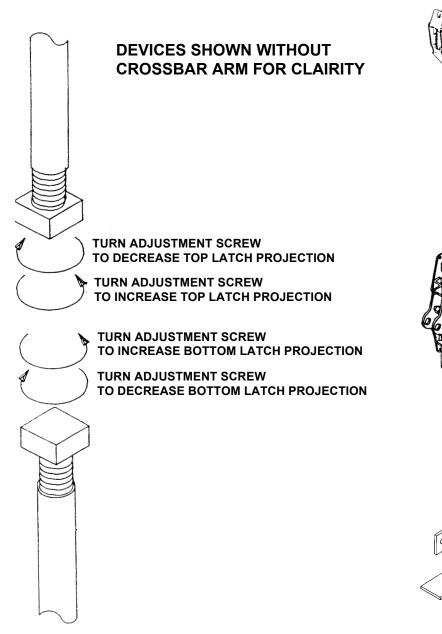


(F)XX-TPL DEVICE ACTIVE HEAD SHOWN WITHOUT CROSSBAR ARM FOR CLAIRITY.

10) VERTICAL ROD ADJUSTMENT

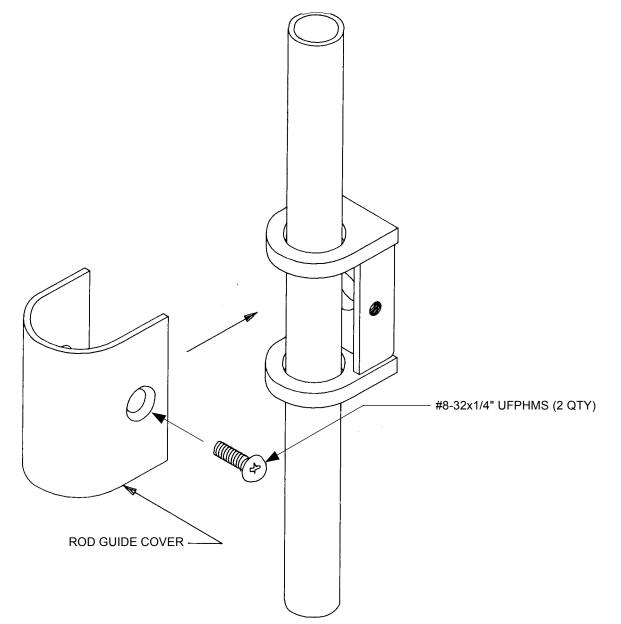
A) TOP ROD ADJUSTMENT WITH DOOR OPEN.

- 1) RELEASE TOP LATCH BOLT USING RELEASE TRIGGER.
- 2) CHECK TOP LATCHBOLT PROJECTION, LATCHBOLT PROJECTION SHOULD BE 5/8" TO 3/4".
- 3) IF THE TOP LATCH BOLT DOES NOT PROJECT THIS MUCH, SWING OUT THE TOP ROD FROM THE BRASS SLIDEBAR AND TURN THE ADJUSTMENT SCREW ONE FULL TURN (SEE BELOW). RETURN THE RODTOTHE SLIDEBAR AND RECHECK THE LATCH BOLT PROJECTION. REPEAT UNTIL TOP LATCH BOLT PROJECTION IS 5/8" TO 3/4".
- 4) SLOWLY DEPRESS THE TOUCHBAR AND RELEASE, THE LATCH BOLT SHOULD REMAIN IN THE RETRACTED POSITION.
- 5) IF THE LATCH BOLT DOES NOT REMAIN RETRACTED, DECREASE TOP LATCH BOLT PROJECTION BY ROTATING THE ADJUSTMENT SCREW ONE-HALF TURN (SEE BELOW).
- 6) REPEAT PROCESS UNTIL LATCHBOLT REMAINS IN RETRACTED POSITION.
- B) BOTTOM BOLT ADJUSTMENT WITH DOOR OPEN AND TOP LATCH BOLT SHOULD REMAIN IN THE RETRACTED POSITION.
 - 1) ROTATE ROD TO ALLOW BOTTOM BOLT TO CLEAR FINISHED FLOOR. (SEE BELOW).
- C) IF TRIM IS BEING USED, RELEASE TOP LATCH BOLT USING RELEASE TRIGGER, OPERATE TRIM AND CHECK FOR FULL LATCH BOLT RETRACTION. IF TOP LATCH BOLT DOES NOT REMAIN IN RETRACTED POSITION, DECREASE TOP LATCH BOLT PROJECTION (SEE BELOW).



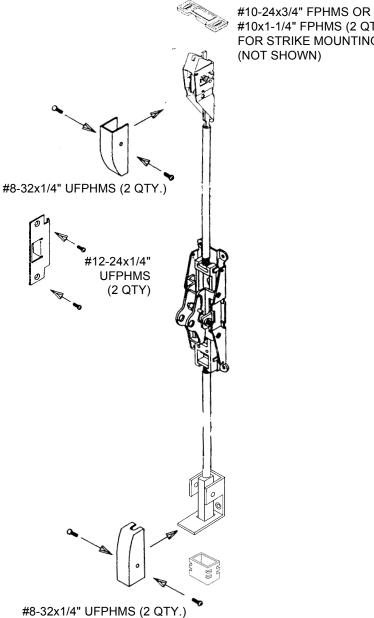
11) INSTALL ROD GUIDE COVER.

A) SLIDE ROD GUIDE INSERT INTO ROD GUIDE BRACKET. B) PLACE ROD GUIDE COVER OVER ROD GUIDE INSERT. C) INSTALL ROD GUIDE COVER TO ROD GUIDE BRACKET USING #8-32x1/4" UFPHMS (2 QTY, PER ROD GUIDE).



11) APPLY STRIKES AND COVERS.

A) ATTACH TOP AND BOTTOM LATCH COVERS USING (2) #8-32x1/4" UFPHMS SCREWS. B) INSTALL STRIKES TO TOP OF DOOR FRAME AND TO FLOOR OR THRESHOLD.



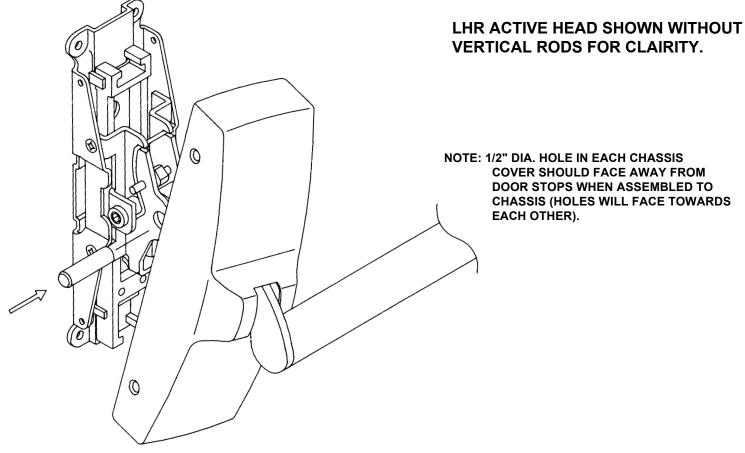
#10x1-1/4" FPHMS (2 QTY.) FOR STRIKE MOUNTING (NOT SHOWN)

> **DEVICES SHOWN WITHOUT CROSSBAR ARMS AND COVER FOR** CLAIRITY.

LHR SHOWN

12) ATTACH 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.



13) CHECK DOGGING OPERATION (PANIC OPERATION ONLY).

- A) DEPRESS CROSSBAR, INSERT AND TURN DOGGING KEY IN BOTH ACTIVE AND INACTIVE HEADS.
- B) REMOVE DOGGING KEY, CROSSBAR SHOULD REMAIN DEPRESSED.
- C) REINSERT DOGGING KEY AND TURN IN OPPOSITE DIRECTION (BOTH HEADS). CROSSBAR WILL SWING OUT.
- D) FOR CYLINDER DOGGING, REFER TO INSTALLATION D-4085.

14) CHECK FOR SMOOTH OPERATION AND SECURE LATCHBOLT ENGAGEMENT. ADJUST STRIKE IF REQUIRED.

5 REVERSING INSTRUCTIONS

TO REVERSE THE HANDING OF A MONARCH (F)XX-TPL DEVICE

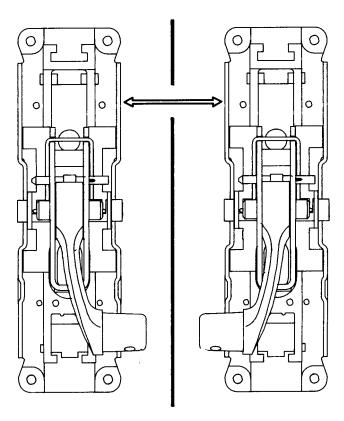
NOTE: TO REVERSE THE HANDING OF THE MORTISE LOCK, REFER TO INSTALLATION D-4010.

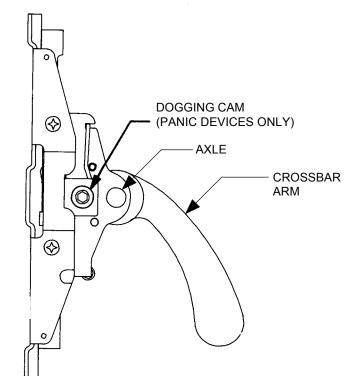
NOTE: DEVICES WITH CYLINDER DOGGING CANNOT BE REVERSED.

REMOVE CHASSIS COVER FROM BOTH HEADS (4 SCREWS EACH).
REMOVE AXLES FROM BOTH ACTIVE AND INACTIVE HEADS.
SWAP CROSSBAR ARMS FROM ACTIVE HEAD TO INACTIVE HEAD.

4) REINSERT AXLES INTO BOTH ACTIVE AND INACTIVE HEADS.

5) PROCEED WITH INSTALLATION.







LHR



FRONT VIEW OF ACTIVE HEAD SHOWN

