

FALCON

2) TO CHANGE FROM STANDARD LOCKING TRIM TO EITHER NIGHTLATCH FUNCTION OR BLANK ESCUTCHEON, FOLLOW THE PROCEDURE BELOW:

A) FOR NIGHTLATCH FUNCTION:

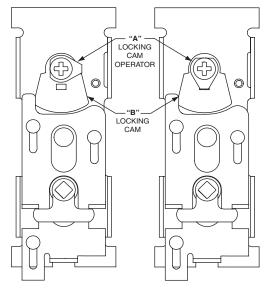
- 1) REMOVE AXLE SUPPORT ASSEMBLY (WITH AXLE AND CROSSBAR ARM) FROM CHASSIS (4 SCREWS NOT SHOWN).
- 2) REMOVE SLIDEBAR (NOT SHOWN).
- 3) REMOVE RETAINING RING FROM LOCKING CAM OPERATOR (ON BACKSIDE OF ACTIVE HEAD).
- 4) TURN LOCKING CAM OPERATOR SO THAT TAB ON OPERATOR FITS INTO RECTANGULAR SLOT IN LOCKING CAM (SEE BELOW) AND REATTACH RETAINING RING TO LOCKING CAM OPERATOR.
 5) REPLACE SLIDEBAR (NOT SHOWN).
- 6) REATTACH AXLE SUPPORT ASSEMBLY (WITH AXLE AND CROSSBAR ARM) TO CHASSIS (4 SCREWS NOT SHOWN).
- 7) CONTINUE WITH DEVICE INSTALLATION.
- B) FOR BLANK ESCUTCHEON DEVICES:
 - 1) REMOVE AXLE SUPPORT ASSEMBLY (WITH AXLE AND CROSSBAR ARM) FROM CHASSIS (4 SCREWS NOT SHOWN).
 - 2) REMOVE SLIDEBAR (NOT SHOWN).
 - 3) REMOVE RETAINING RING FROM LOCKING CAM OPERATOR (ON BACKSIDE OF ACTIVE HEAD). REMOVE LOCKING CAM AND LOCKING CAM OPERATOR FROM ACTIVE HEAD.
 - 4) IF DEVICE IS (F)XX-V-TP, GO TO STEP 9; IF DEVICE IS (F)XX-V-K/L, CONTINUE TO STEP 5.
 - 5) REMOVE RETAINING RING FROM KNOB HUB AND REMOVE KNOB HUB.
 - USING PUNCH, DRIVE OUT RIVETS (FROM BACKSIDE) HOLDING LOCKING PLATE TO CHASSIS.
 - 7) REMOVE LOCKING PLATE.
 - 8) REPLACE KNOB HUB USING RETAINING RING.
 - 9) REPLACE SLIDEBAR (NOT SHOWN).
 - 10) REATTACH AXLE SUPPORT ASSEMBLY (WITH AXLE AND CROSSBAR ARM) TO CHASSIS (4 SCREWS
 - NOT SHOWN).

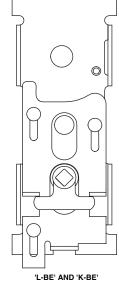
'L' AND 'K'

COVER PLATE ASSEMBLY

FIGURE 1

11) CONTINUE WITH DEVICE INSTALLATION.





'L-NL' AND 'K-NL' (NIGHT LATCH) COVER PLATE ASSEMBLY FIGURE 2

(BLANK ESCUTCHEON) COVER PLATE ASSEMBLY FIGURE 3

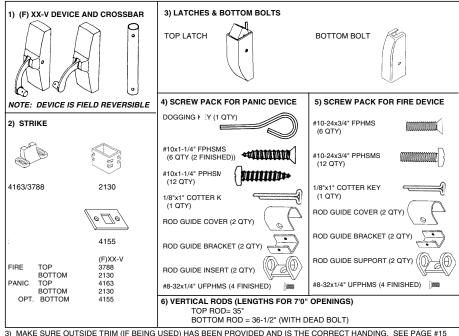
F-XX-V & XX-V EXIT DEVICES

INSTALLATION INSTRUCTIONS

PARTS CHECK

1) MAKE SURE THE CORRECT DEVICE IS BEING USED, AND IS THE CORRECT HANDING (SEE PAGE #14 FOR REVERSING INSTRUCTIONS).

- 2) MAKE SURE ALL NEEDED PARTS ARE ON HAND.
 - NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS.



3) MAKE SURE OUTSIDE TRIM (IF BEING USED) HAS BEEN PROVIDED AND IS THE CORRECT HANDING. SEE PAGE #1: FOR LOCKING CAM AND LOCKING CAM OPERATOR POSITION.





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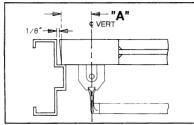
(NOTE: FOR FACTORY PREPARED DOORS, VERIFY LAYOUT.)

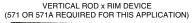
1) DOOR MUST BE FITTED AND HUNG PROPERLY BEFORE PROCEEDING. 2) MARK VERTICAL $\mathcal Q$ AND DEVICE REF. $\mathcal Q$ ON DOOR AND FRAME (SEE FIGURES & CHART BELOW).

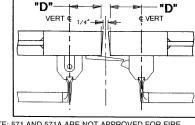
A) VERTICAL G :

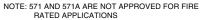
INSTALLATION	PANELED DOOR	FLUSH DOOR	MINIMUM STILE
SINGLE: (F)XX-V	"A" = 1/2 OF STILE	"A" = 2-3/4"	2-3/4"
PAIR: (F)XX-V	"B" = 1/2 OF STILE	"B" = 2-3/4"	
(F)XX-V x (F)XX-M WITH OPEN BACK STRIKE	"C" = 2-3/4"	"C" = 2-3/4"	4-1/2"
XX-V x XX-R WITH 571 STRIKE	"D" = 2-3/4"	"D" = 2-3/4"	3-7/8"
XX-V x XX-R WITH 571A STRIKE	"D" = 2-1/4"	"D" = 2-1/4"	3-3/8"

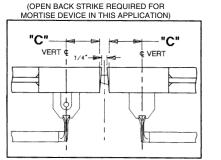












TWO VERTICAL ROD DEVICES

VERTICAL ROD x MORTISE DEVICE

1/4-

"B"

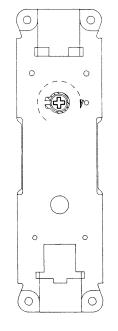
VERT

"B"

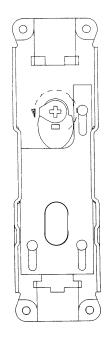
VERT ¢

6 LOCKING FUNCTIONS

1) IF USING STANDARD LOCKING TRIM, ROTATE LOCKING CAM OPERATOR COMPLETELY TO FULLY-LOCKED POSITION AS SHOWN IN THE FIGURES BELOW. THIS WILL ENSURE PROPER TIMING BETWEEN THE LOCKING FEATURE AND THE CYLINDER.



BACKSIDE VIEW OF (F)XX-V DEVICE



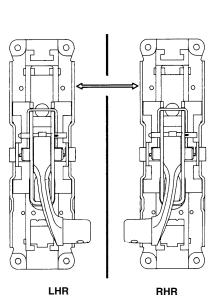
FRONTSIDE VIEW OF (F)XX-V DEVICE SHOWN WITHOUT AXLE SUPPORT AND SLIDEBAR FOR CLAIRITY

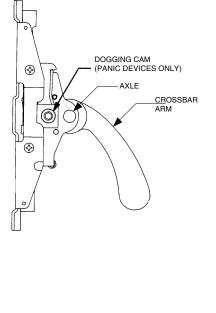


TO REVERSE THE HANDING OF A (F)XX-V DEVICE

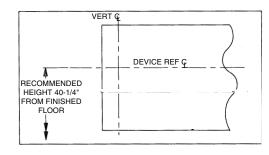
NOTE: DEVICES WITH CYLINDER DOGGING CANNOT BE REVERSED

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.
 REINSERT AXLES INTO BOTH ACTIVE AND INACTIVE HEADS.
 PROCEED WITH INSTALLATION.



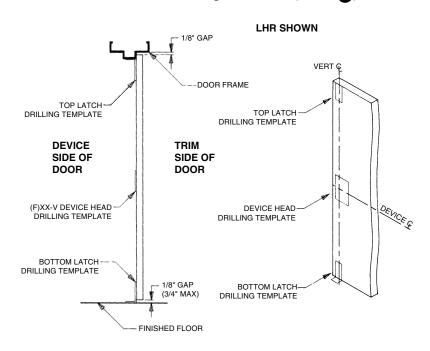


B) DEVICE REF.Ç (HORIZONTAL).

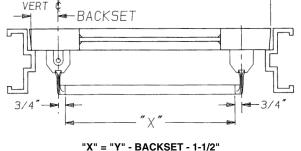


3 DOOR & HARDWARE PREPARATION

1) CHOOSE CORRECT DRILLING TEMPLATES FROM THE CENTER OF THIS BOOK. 2) TAPE DRILLING TEMPLATE ON DOOR USING VERTICAL QAND DEVICE REF. Q (REFER TO 2).



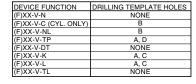
FRONT VIEW OF ACTIVE HEAD SHOWN

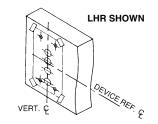


5) DETERMINE CROSSBAR LENGTH. A) MEASURE DISTANCE BETWEEN VERTICAL ${\bf \xi}$ AND EDGE OF DOOR. B) CALCULATE CROSSBAR LENGTH "X" USING FORMULA BELOW.

LHR SHOWN VERT Ç VERT G 7/32" DIA. HOLE 3/8" DIA. HOLE (4 HOLES) (4 HOLES) DEVICE REF. Ç င့ DEVICE REF. € HORIZONTAL HORIZONTAL ငူ Φ¦Φ 1 TRIM SIDE OF DOOR DEVICE SIDE OF DOOR

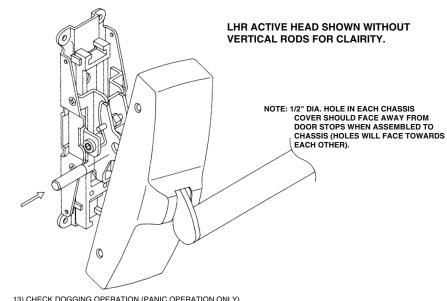
4) IF USING OUTSIDE TRIM, PREPARE DOOR USING SEPARATE TRIM DIRECTION SHEET. FOR SEXBOLT INSTALLATIONS, DRILL 3/8" DIAMETER HOLES ON TRIM SIDE OF DOOR ONLY (SEE DIAGRAM BELOW).





DRILLING TEMPLATE.

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



A) REMOVE AXLES FROM BOTH ACTIVE AND INACTIVE CHASSIS.
 B) REMOVE CROSSBAR AND CROSSBAR ARMS FROM BOTH CHASSIS.

D) INSERT CROSSBAR ARMS INTO CHASSIS AND INSERT AXLES.

C) SLIDE CROSSBAR ARMS INTO RECTANGULAR CUT-OUT IN TOP OF CHASSIS COVER.

E) SLIDE CHASSIS COVER OVER CHASSIS AND ATTACH WITH 4 (PER HEAD) #8-32x1/4" UFPHMS.

NOTE: THE 1/2" DIA. HOLE IN THE CHASSIS COVER ON BOTH COVERS SHOULD FACE EACH OTHER.

12) ATTACH CHASSIS COVER.

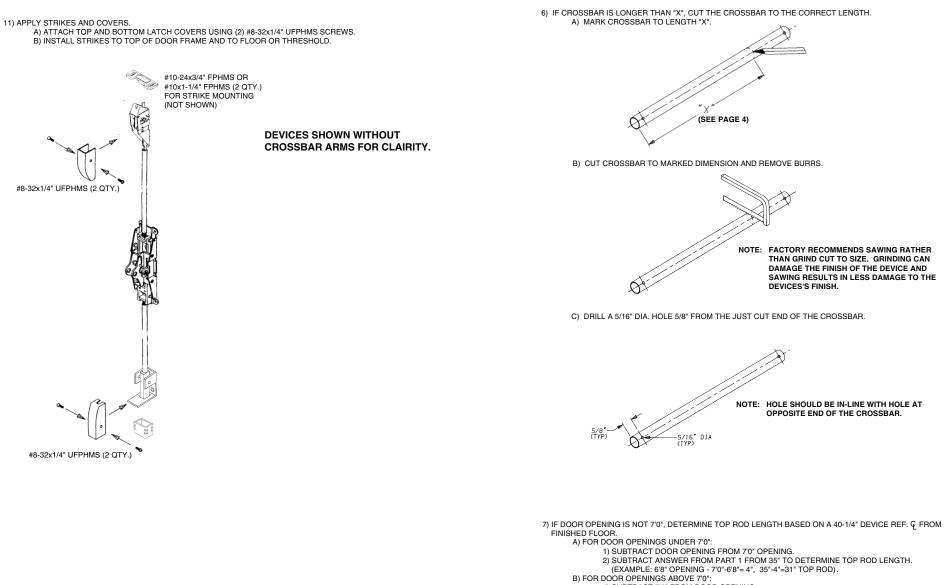
13) CHECK DOGGING OPERATION (PANIC OPERATION ONLY). A) DEPRESS CROSSBAR, INSERT AND TURN DOGGING KEY IN BOTH ACTIVE AND INACTIVE HEADS.

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.

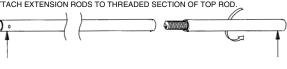
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- 2) ADD ANSWER FROM PART 1 TO 35" TO DETERMINE TOP ROD LENGTH. (EXAMPLE: 8'10" OPENING 8'10"-7'0" = 22", 35"+22"= 57" TOP ROD).

PAGE 5

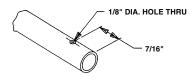
2) FOLLOW INSTRUCTIONS TO MARK, CUT & DRILL TOP ROD (SEE ABOVE).



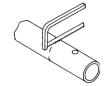
EXTENSION ROD

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

TOP ROD



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

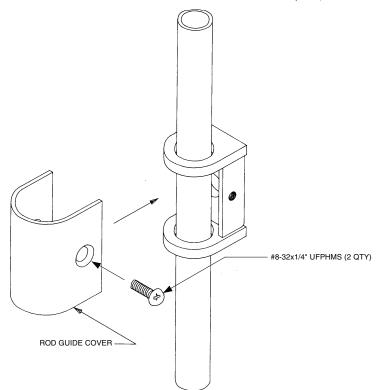


2) CUT ROD AT MARKED LOCATION.



NOTE: ROD MUST BE MEASURED FROM THREADED PORTION OF ROD. DO NOT CUT ROD AT END WITH INTERNAL THREADS.

8) MODIFY TOP ROD TO REQUIRED LENGTH. A) FOR TOP RODS THAT ARE TOO LONG, FOLLOW PROCEDURE BELOW TO CUT ROD TO SIZE. 1) MARK RODS TO REQUIRE LENGTH.



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).

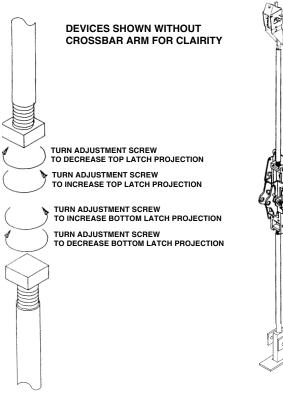
11) INSTALL ROD GUIDE COVER.

10) VERTICAL ROD ADJUSTMENT

A) TOP ROD ADJUSTMENT WITH DOOR OPEN.

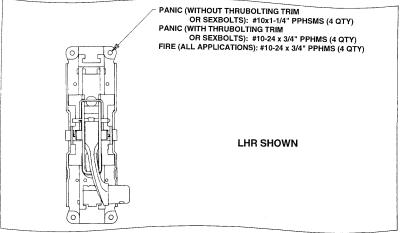
- 1) RELEASE TOP LATCH BOLT USING RELEASE TRIGGER.
- 2) CHECK TOP LATCHBOLT PROJECTION, LATCHBOLT PROJECTION SHOULD BE 5/8" TO 3/4".
- 3) IF THE TOP LATCH BOLT DOES NOT PROJECT THIS MUCH, SWING OUT THE TOP ROD FROM THE BRASS SLIDEBAR AND TURN THE ADJUSTMENT SCREW ONE FULL TURN (SEE BELOW). RETURN THE 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.
- SIF 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).

() ROTATE ADD TO ALLOW BOLT TO CLEAR FINISHED FLOOD. (SEE BELOW).
() 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).





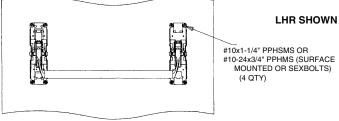
- IF USING OUTSIDE TRIM OR SEXBOLTS, MOUNT TRIM PER DIRECTIONS IN TRIM BOX, OR INSTALL OUTSIDE SEX BOLTS.
- 2) EITHER SURFACE MOUNT DEVICE, OR THROUGHBOLT DEVICE TO TRIM OR SEXBOLTS
- (NOTE: FOR LOCKING TRIM, SEE PAGE #15 FOR LOCKING CAM AND LOCKING CAM OPERATOR POSITION).

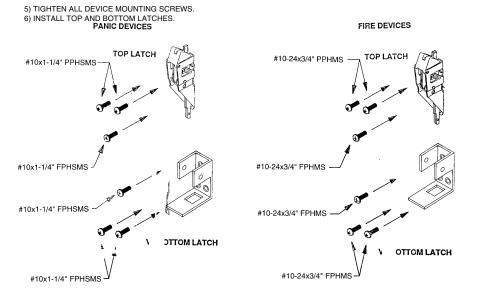


3) REMOVE CROSSBAR RETAINER SCREW AND ROUNDED WASHER FROM XX CROSSBAR ARMS. SLIDE THE CROSSBAR OVER BOTH THE ACTIVE AND INACTIVE ARMS AND ATTACH WITH CROSSBAR RETAINER SCREW AND ROUNDED WASHER.

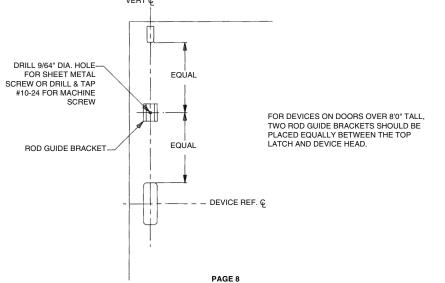


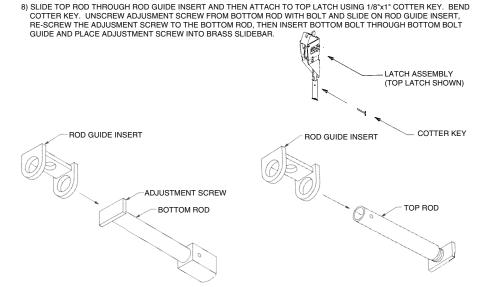
4) LOCATE, MARK, AND DRILL INACTIVE HEAD MOUNTING HOLES.
 A) LEVEL CROSSBAR ON DOOR AND MARK CENTER OF FOUR MOUNTING HOLES.
 B) DRILL 9/64" DIA. HOLES IF USING SHEET METAL SCREWS OR DRILL & TAP #10-24 IF USING MACHINE SCREWS OR DRILL 1/4" DIA. HOLE INSIDE AND 3/8" DIA. HOLE OUTSIDE FOR SEXBOLTS.



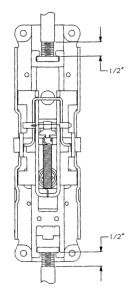








9) TURN ADJUSTMENT SCREW UNTIL IT IS APPROXIMATELY 1/2" INTO THE VERTICAL ROD. SWING RODS SO THAT THE ADJUSMENT SCREW IS IN THE BRASS SLIDEBAR IN THE ACTIVE HEAD AS SHOWN BELOW.



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

