



D-1010

FALCON®

XX-M Series Mortise

Exit Devices

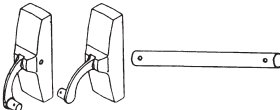
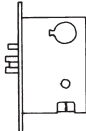
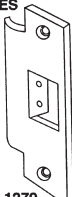
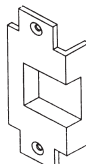
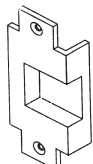
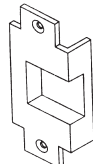
Installation Instructions

- 9) CHECK DOGGING OPERATION (PANIC APPLICATION ONLY)
 - A) DEPRESS CROSSBAR, INSERT AND TURN DOGGING KEY IN BOTH THE ACTIVE AND INACTIVE HEADS.
 - B) REMOVE DOGGING KEY, CROSSBAR SHOULD REMAIN DEPRESSED.
 - C) REINSERT DOGGING KEY AND TURN IN OPPOSITE DIRECTION. CROSSBAR WILL "POP OUT".
 - D) FOR CYLINDER DOGGING, REFER TO D-4085.
- 10) CHECK FOR SMOOTH OPERATION AND SECURE LATCH BOLT ENGAGEMENT.

1 PARTS CHECK

- 1) MAKE SURE THE CORRECT DEVICE, MORTISE LOCK, AND TRIM (IF APPLICABLE) ARE BEING USED, AND ARE THE CORRECT HAND.
- 2) EDGE OF DOOR SHOULD BE PREPARED FOR MORTISE LOCK (SEE PAGE #5)
- 3) FRAME SHOULD BE PREPARED FOR MORTISE STRIKE (SEE PAGE #5)
- 4) MAKE SURE ALL NEEDED PARTS ARE ON HAND.

NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS.

1) (F)-18-M DEVICE AND CROSSBAR  NOTE: DEVICE IS FIELD REVERSIBLE	4) SCREW PACK FOR PANIC DEVICE DOGGING KEY (1 QTY)  #12-24x1/2" FPHMS (4 QTY) 	5) SCREW PACK FOR FIRE DEVICE #12-24x1/2" FPHMS (4 QTY) 
2) MORTISE LOCK  NOTE: MORTISE LOCK IS FIELD REVERSIBLE	#10x1-1/4" PPHSMS (8 QTY) 	#10-24X3/4" PPHMS (8 QTY) 
3) STRIKES		
 1279 STANDARD PANIC AND FIRE	 F1280 OPTIONAL FIRE	 1280 OPTIONAL PANIC
		 1280A OPTIONAL PANIC

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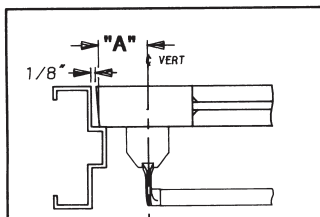
2 DOOR LAYOUT

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

(NOTE: FOR WOOD DOORS, CONSULT FACTORY.)

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

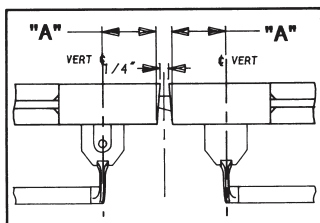
A) VERTICAL ϕ : SINGLE DOOR APPLICATION



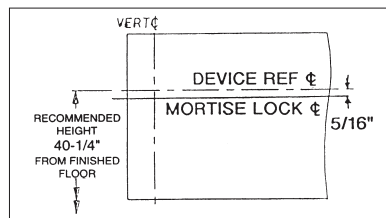
INSTALLATION	"A" BACKSET	MIN. STYLE
SINGLE DOOR MORTISE	2-3/4"	4-1/2"
DOUBLE DOOR: MORTISE x VERTICAL DEVICES		
DOUBLE DOOR: MORTISE x CONCEALED DEVICES		

NOTE: VERTICAL ϕ TAKEN FROM CENTER OF DOOR THICKNESS

B) VERTICAL ϕ : DOUBLE DOOR APPLICATION WITH MULLION



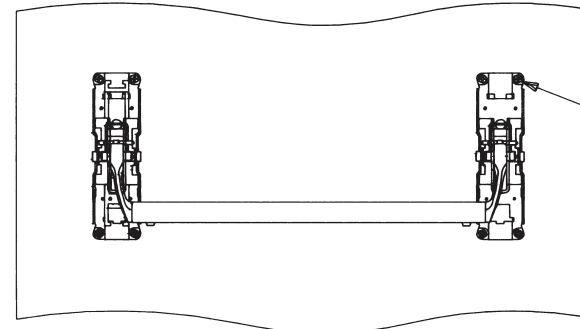
C) DEVICE REF. ϕ (HORIZONTAL)



FOR FACTORY PREPARED DOORS:
USE MORTISE LOCK ϕ TO FIND
DEVICE REF. ϕ

5) LOCATE, MARK, AND DRILL INACTIVE HEAD MOUNTING HOLES

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



LHR SHOWN

#10x1-1/4" PPHSMS OR
#10-24x3/4" PPHMS (SURFACE
MOUNTED OR SEXBOLTS)
(4 QTY)

6) TIGHTEN ALL DEVICE AND MORTISE LOCK MOUNTING SCREWS.

7) INSTALL STRIKE.

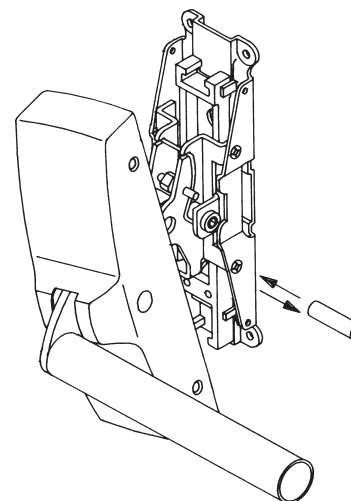
8) ATTACH CHASSIS COVER

- 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) #32x1/4" UFPHMS.



LHR ACTIVE HEAD SHOWN

NOTE: 1/2" DIA. HOLE IN EACH CHASSIS
COVER SHOULD FACE AWAY FROM
DOOR STOPS WHEN ASSEMBLED TO
CHASSIS (HOLES WILL FACE TOWARDS
EACH OTHER)

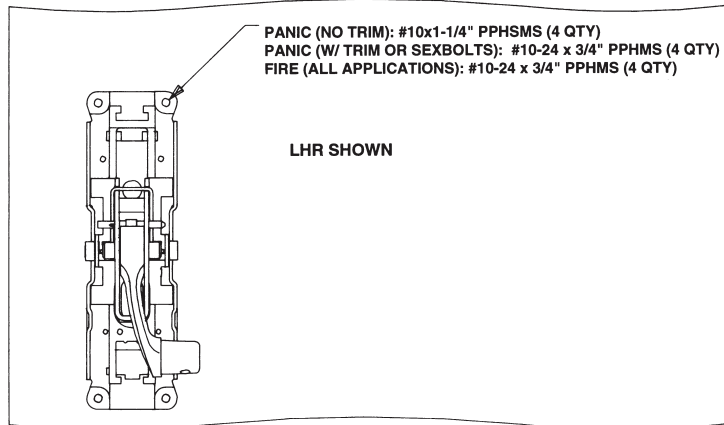
4 HARDWARE INSTALLATION

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

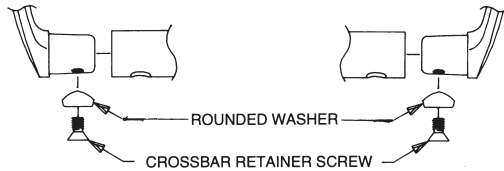
(NOTE: LEAVE SCREWS LOOSE FOR EASIER DEVICE AND TRIM INSTALLATION)

2) IF USING OUTSIDE TRIM OR SEXBOLTS, MOUNT TRIM PER DIRECTIONS IN TRIM BOX, OR INSTALL OUTSIDE SEXBOLTS.

3) EITHER SURFACE MOUNT DEVICE, OR THROUGHBOLT DEVICE TO TRIM OR SEXBOLTS.



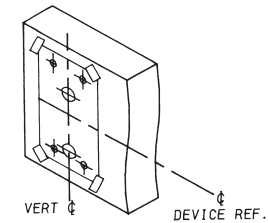
4) REMOVE CROSSBAR RETAINER SCREW AND ROUNDED WASHER FROM XX CROSSBAR ARMS. SLIDE CROSSBAR OVER BOTH ACTIVE AND INACTIVE CROSSBAR ARMS AND ATTACH WITH CROSSBAR RETAINER SCREW AND ROUNDED WASHER.



3 DOOR & HARDWARE PREPARATION

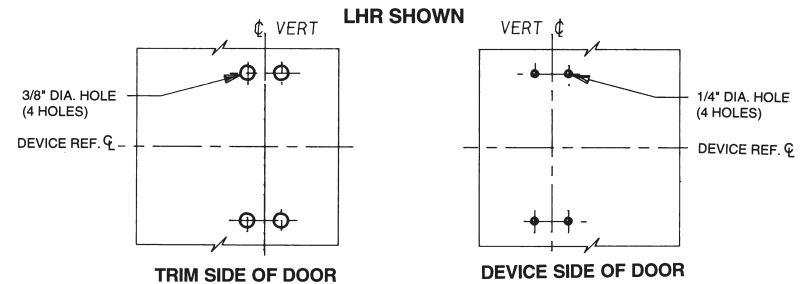
1) CHOOSE CORRECT DRILLING TEMPLATE FROM THE CENTER OF THIS BOOK.

2) TAPE DRILLING TEMPLATE ON DOOR USING VERTICAL ϕ AND DEVICE REF. ϕ (REFER TO 2), CENTERPUNCH AND DRILL HOLES, TAP IF REQUIRED, FOR DEVICE MOUNTING. AFTER DRILLING HOLES, REMOVE DRILLING TEMPLATE.



LHR SHOWN

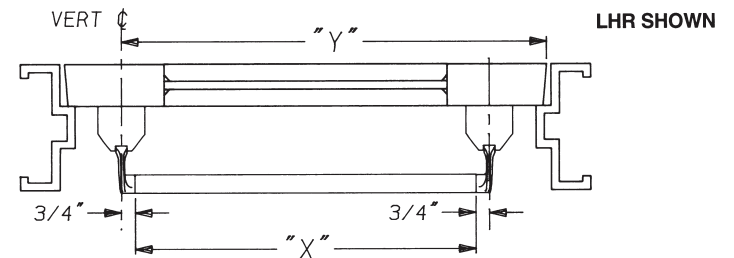
3) CHOOSE CORRECT DRILLING TEMPLATE FROM THE CENTER OF THIS BOOK. FOR SEXBOLT INSTALLATIONS, DRILL 3/8" DIAMETER HOLES ON TRIM SIDE OF DOOR ONLY. (SEE DIAGRAM BELOW)



4) DETERMINE CROSSBAR LENGTH:

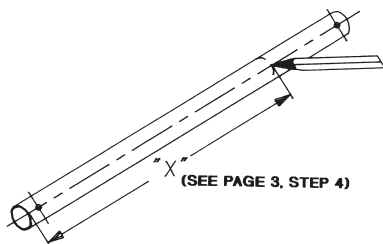
A) MEASURE DISTANCE BETWEEN VERTICAL ϕ AND EDGE OF DOOR. (DIMENSION "Y" BELOW)

B) CALCULATE CROSSBAR LENGTH "X" USING FORMULA BELOW.

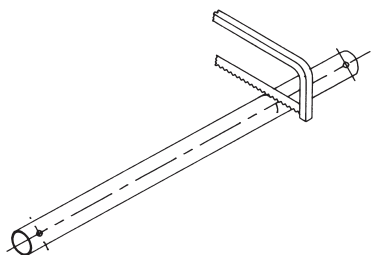


$$"X" = "Y" - 4-1/4"$$

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

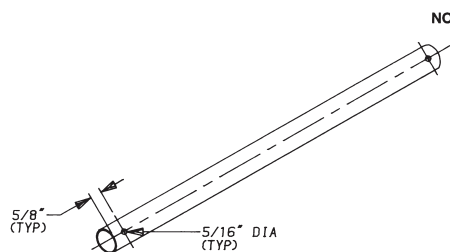


- B) CUT CROSSBAR TO MARKED DIMENSION AND REMOVE BURRS.



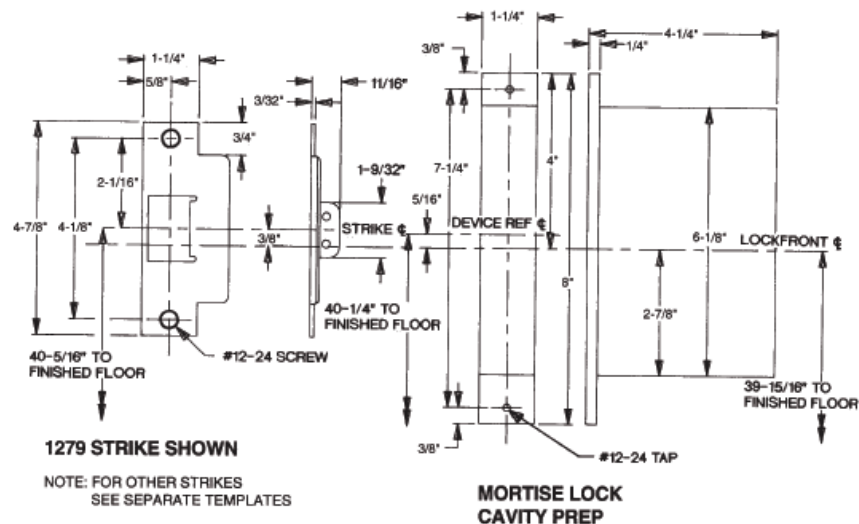
NOTE: FACTORY RECOMMENDS SAWING RATHER THAN GRIND CUT TO SIZE. GRINDING CAN DAMAGE THE FINISH OF THE DEVICE AND SAWING RESULTS IN LESS DAMAGE TO THE DEVICES'S FINISH.

- 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 CROSSBAR.

- 6) VERIFY MORTISING FOR MORTISE LOCK AND STRIKE



NOTE:
THIS PRODUCT IS FACTORY HANDED. IF YOU HAVE RECEIVED THE WRONG HANDING, A REPLACEMENT MUST BE ORDERED.

BACKSET
SEE PAGE 2, D-1010

VERT $\varnothing$

3-7/8"

1-13/16"

7-3/4"

2-13/16"

DEVICE REF $\varnothing$

MORTISE LOCK FRONT $\varnothing$

5/16"

**(F)XX-M DEVICE HEAD
DRILLING TEMPLATE
LHR**

1-1/4" DIA. HOLE
(1" DEEP FOR WOOD DOORS)
ONLY FOR
(F)XX-M-K2
(F)XX-M-L2
(F)XX-M-TP2

1-1/4" DIA. HOLE
(1" DEEP FOR WOOD DOORS)
FOR ALL FUNCTIONS

DRILL AND TAP FOR #10-24 MACHINE
SCREW OR DRILL 9/64" DIA. HOLE FOR
#10 SHEET METAL SCREW OR DRILL
1/4" DIA. HOLE INSIDE AND 1/2" DIA. HOLE
OUTSIDE FOR THRU-BOLTED TRIM OR
DRILL 1/4" DIA. HOLE INSIDE AND 3/8"
DIA. HOLE OUTSIDE FOR SEXBOLT
(4 HOLES)

1-3/4"

(F)XX-M DEVICE HEAD DRILLING TEMPLATE RHR

