

Proceed to STEP 3.

packaged in trim carton FOR HAND REVERSAL Remove actuator pin.
 Remove pin-bracket. 3. Remove actuator. 4. Rotate chassis 180 degrees 5. Reinstall actuator & pin-bracket in top

hole of bracket.

180 degrees. 8. Move screw to lower hole.

STEP 3

Refer to carton label for model

enclosed, (tape to door). Horizontal center line and center

and trim numbers before drilling.
Prepare door by using the templat

line of chassis (vertical reference) on template MUST be on horizontal

and vertical reference line on door

is not maintained, vertical rods will not fit.

A. If no cutting is required; proceed to Step 5.
 B. If cutting is required: Determine length by measuring "A" (hinge si door stop to center of chassis), then subtract 2" (51 mm) to de-

termine "B" (length of touch bar and rail dim.) Mark length on RAIL, (Cut with touch bar depressed, packing block rotated on edge), then remove packing block and any burrs.

Not Center Line Of Cylinder.

STEP 4

CENTER LINE OF CHASSIS

1 3/16" (30 mm) MIN.

Verify door width.

Reinsert actuator pin in actuator
 Rotate cam on rear of chassis

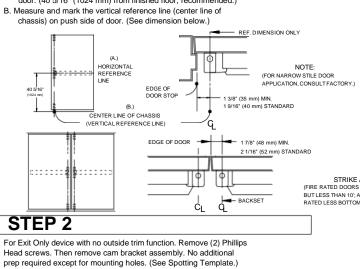
NOTES: SURFACE OF DOOR WHERE EXIT DEVICE IS TO BE INSTALLED MUST BE FLAT. PROPER RE-INFORCEMENT OF DOOR IS ALSO REQUIRED.
BEFORE STARTING INSTALLATION:

1. DOOR SHOULD BE FITTED AND HUNG. 2. VERIFY DOOR WIDTH WITH BOX LABEL FOR CORRECT LENGTH.

FOR LESS BOTTOM ROD DEVICES DELETE BOTTOM LATCH LATCH INSTALLATION STEPS.

LESS BOTTOM ROD DEVICES SHOULD NOT BE USED WHERE SECURITY IS A PRIMARY CONCERN.

A. Measure and mark horizontal reference line on push side of door, (40 5/16" (1024 mm) from finished floor, reco



On device using outside trim with rim cylinder, tailpiece should be trimmed 1/8" (3 mm) to 3/16" (5 mm) less than inside face

of door. When using lever trim refer to additional instructions

8400/F8400 SERIES **SURFACE VERTICAL ROD EXIT DEVICES** 

Will fit 48" (1219 mm) door opening without cutting. Can be cut to fit a 34" (864 mm) door opening.

Will fit 36" (914 mm) door opening without cutting. Can be cut to fit a 28" (711 mm) door opening.

Will fit 36" (914 mm) door opening without cutting. Can be cut to fit a 22" (557 mm) door opening.

> INSTALLATION OF OPTIONAL CYLINDERS 1. Thread mortise cylinder into touch bar

2. Snug (1) #4-40 x 7/16" set screw with allen wrench. (DO NOT OVER TIGHTEN.)

NOTE: Cylinder must be installed with top of

cylinder away from chassis. (See above.)



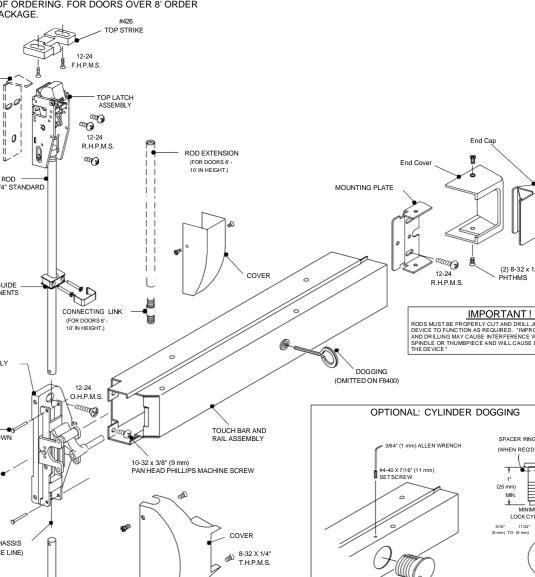
**INSTRUCTIONS** 

FOR INSTALLING

STANDARD RODS SHIPPED FOR 7' FOOT DOORS 8' FOOT PACKAGE AVAILABLE, MUST BE NOTED AT TIME OF ORDERING. FOR DOORS OVER 8' ORDER

ROD GUIDE -

8-32 X 1/4" T.H.P.M.S.



## STEP 5

trim using screws as noted on the spotting templat

A. Level touch bar/chassis assembly on door, hold mounting plate against touch bar, mark (2) holes and drill.

No. 25 drill 1" (25 mm) deep for wood doors.

No. 14 drill 12-24 tap for metal doors.

3/8" (10 mm) DIA. Drill thru door for sex bolts.

B. Fasten mounting plate (against rail) to door with (2) round

C. For electronic options; drill addtional 5/16" (8 mm) DIA. hole per detail above.

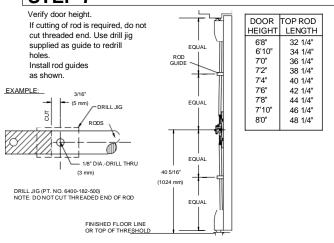
## STEP 6

Install top and bottom latch cases using screws as noted on the spotting template. Install strike angle behind top latch on FIRE rated less bottom rod devices or FIRE doors over 8 foot.

Install top and bottom strikes using fasteners as noted

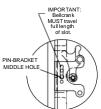
NOTE: If installing less bottom rod units on fire rated doors, additional popper must be used. See instruction sheet packed with popper for installation.

# STEP 7



#### STEP 8

- A. Install threaded ends of rods to top and bottom latches
- B. Install top and bottom latch covers with (4)
  No. 8-32 Truss Head Phillips Machine Screws.
- C. Install rod guides over rods. Secure rod guides to door equal distance between top and bottom latches & chassis. (See step



- D. Push upward on top rod allowing top latch bolt to retract and be captured by tripping lever fully.
- E. Depress and hold touch bar to hold actuator
- fully upward.

  F. Rotate rod right (clockwise) to shorten and left (counter clockwise) to lengthen until hole in rod aligns with hole in top of bell crank. Insert rod pin. Do not bend, pin will be captured by cover once installed. Release touch bar
- G. Lift up on bottom rod and align hole in rod and bell crank. Insert pin only.
- \* H. Feel to see if bottom of latchbolt is flush across cover. If so, install cover. If not, remove pin, then lengthen or shorten rod as required until latchbolt is flush. Reinsert
- pin & secure by installing cover.

  I. Depress tripping lever, allowing latches to extend.

  J. Depress touch bar slowly. Release touch bar, latches should remain retracted, being held by tripping lever. Both latchbolts should be flush across covers. Bell crank should travel full length of slot. (See Sec. A.) If outside trim is used check to insure its function at this time.

  K. Adjust strikes if necessary.
- \* Omit Step G. and H. when installing less bottom rod device (LBR).

## STEP 9

Install chassis cover, latch covers & endcover using (10) 8-32 x 1/4" (6 mm) THPHMS & endcap with (2) #8 x 1" (25mm) PHFHTS screws.

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