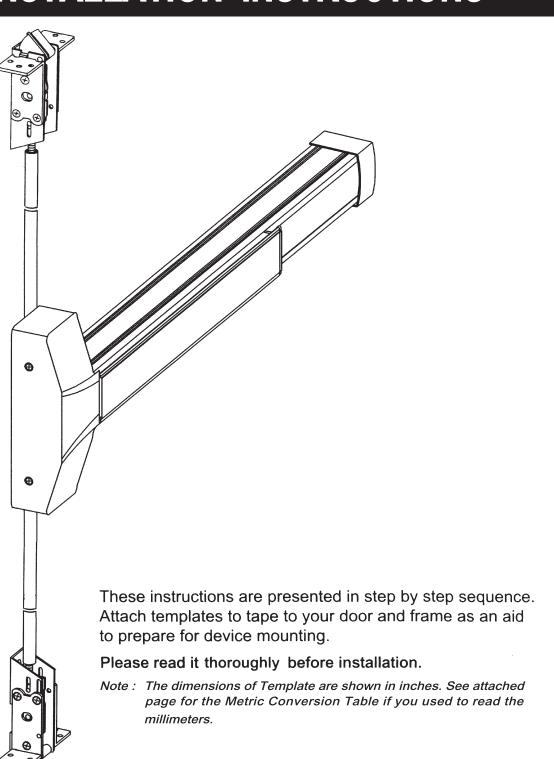
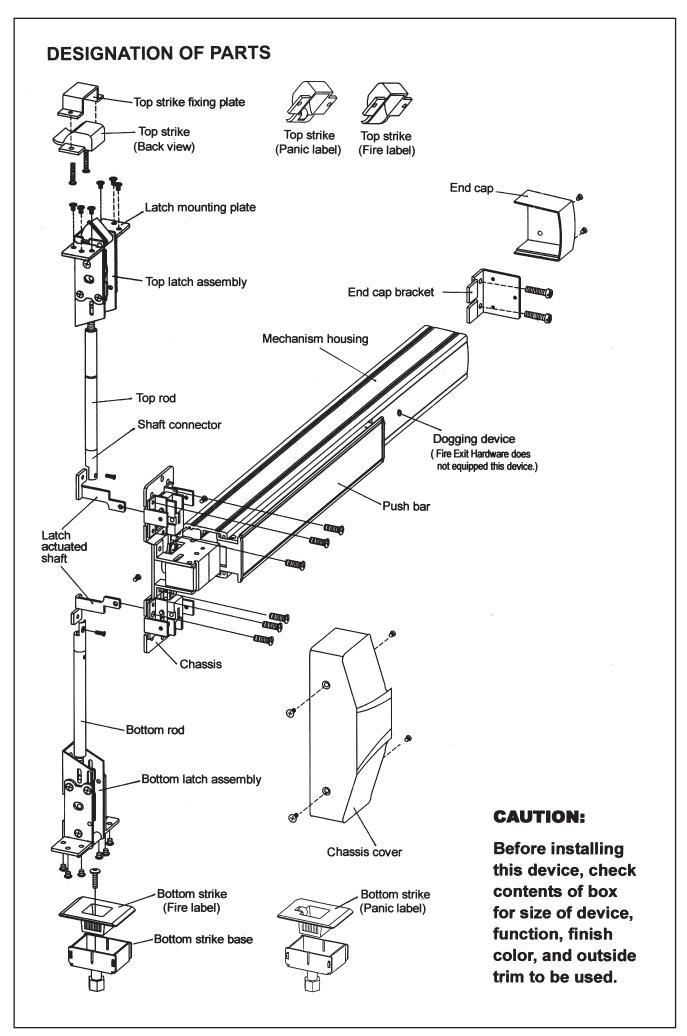
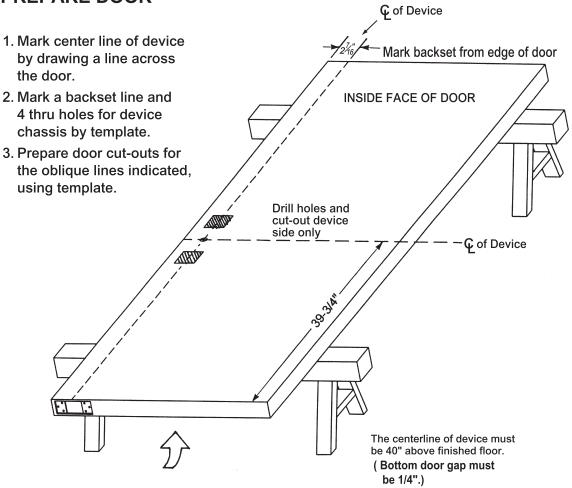
# PANIC / FIRE EXIT CONCEALED VERTICAL ROD DEVICES

# **INSTALLATION INSTRUCTIONS**





#### 1 PREPARE DOOR



See Trim Installation Instructions for outside face of door preparation.

Figure 1-1

- 4. Cut out the top edge and bottom edge of the door, then weld two 5mm thick-mouting plates on both edges for Top Latch Assembly and Bottom Latch Assmbly as per Figure 1-2.
- 5. Drill holes and tap #10-24 for the mounting plates on top and bottom of door.

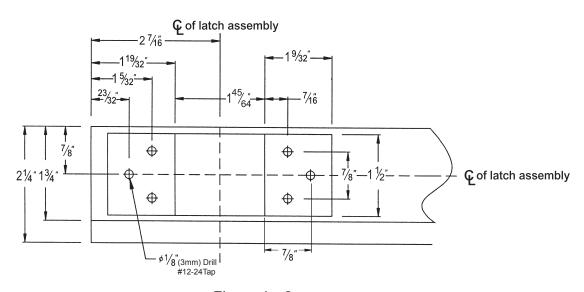
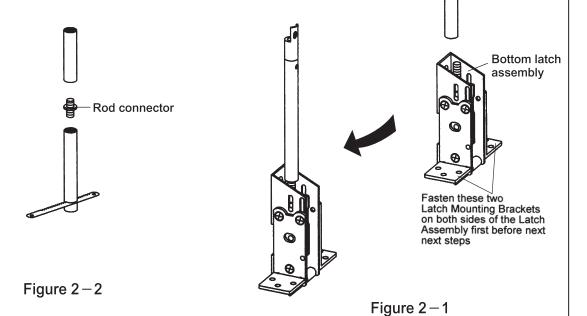


Figure 1-2

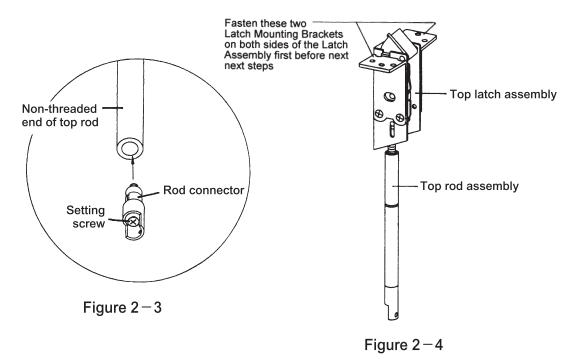
### 2 ASSEMBLE RODS AND LATCHES

- 1. Screw bottom rod into bottom latch assembly. (See Figure 2-1.)
- 2. Assemble top rod:
  - 2-1 Connect short top rod with long top rod by rod connector. (See Figure 2-2.)
  - 2-2 Measure and cut the length of top rod if it is too long.



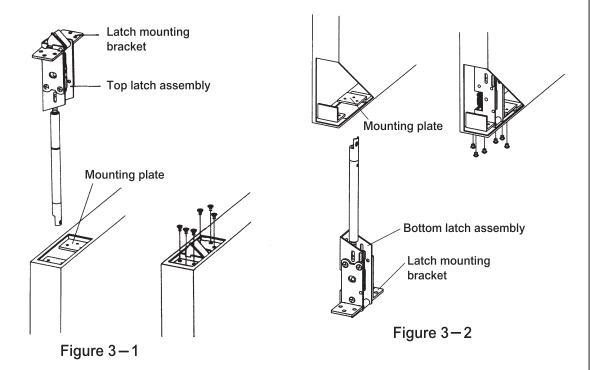
**Bottom rod** 

- 2-3 Insert shaft connector into the non-threaded end of top rod and fasten setting screw to it. (See Figure 2-3.)
- 3. Screw top rod assembly into top latch assembly. (See Figure 2-4.)



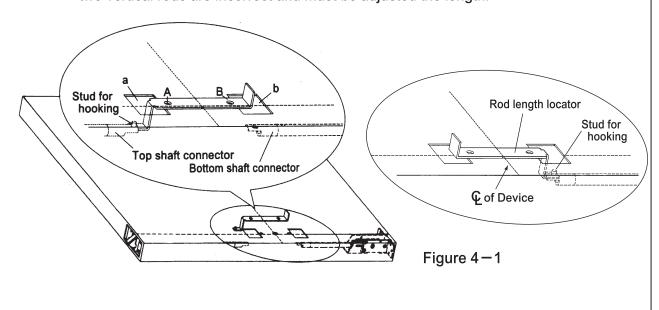
#### 3 MOUNT LATCH ASSEMBLIES

- 1. Insert top latch assembly into top of the door and fasten top latch mounting brackets on the mounting plates at top of the door by supplied fixing screws. (See Figure 3-1.)
- 2. Insert bottom latch assembly into bottom of the door and fasten bottom latch mounting brackets on the mounting plates at bottom of the door. (See Figure 3-2.)



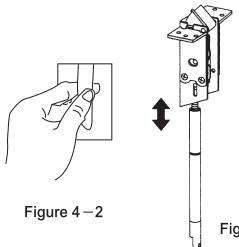
# 4 ADJUST VERTICAL RODS

- 1. Place the rod length locator into cut-out holes of the door, hook up the holes of both shaft connectors in turn using the small stud of locator as shown the figures below. When the shaft connector is raised up, check A and B holes whether these 2 holes match with a, b holes which have been cut out on the door. (See Figure 4-1.)
- 2. If A, B holes does not match in alignment with a, b holes that means the length of two vertical rods are incorrect and must be adjusted the length.



#### 3. The adjustment procedure

Have thumb and first finger enter the cut-out holes to adjust the lengths of two vertical rods. (See Figure 4-2.)



Turn the rod into latch assembly for shorten the overall length, or turn the rod out of the latch assembly for longer until the holes of both shaft connectors matched the holes of locator. (See Figure 4-3.)

Figure 4 -3

#### 5 **INSTALL LATCH ACTUATOR SHAFTS**

- 1. Connect Latch Actuated Shafts with Top Shaft Connector and Bottom Shaft Connector one each with supplied screws. (See Figure 5.)
- 2. Make sure Top Latch Actuated Shaft in parallel with Bottom Latch Actuated Shaft.

# **INSTALL DEVICE AND TRIM IF USING**

- 1. Remove device chassis cover from the chassis assembly and end cap from end cap bracket.
- 2. Lay device in place on door and have top and bottom Latch Actuated Shafts insert into X, Y positions on chassis assembly then fasten with supplied screws. (See Figure 6-1.)

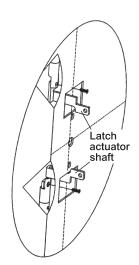
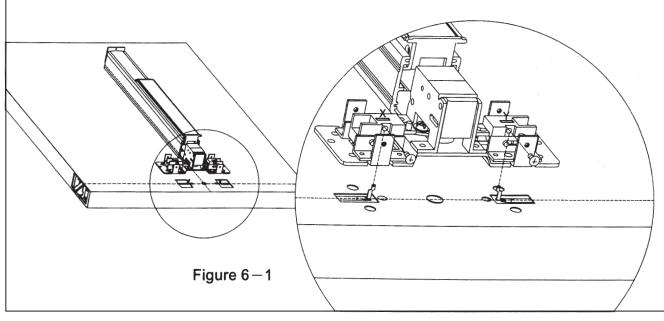


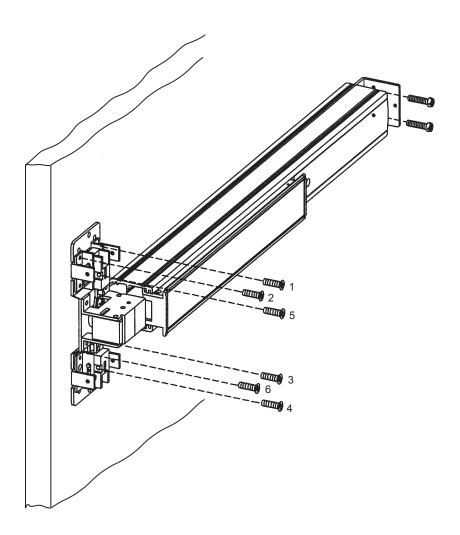
Figure 5



- 3. Cut the length if required:
  - 3-1 The device length is precut for use on 36", or 48" wide door, no additional cutting is necessary. If narrow door installation is needed, cut device "A" portion to door width minus 2" to fit properly.
  - 3-2 Remove device from door, measure and mark (with end cap removed) then cut it if required.

Note: Device must be cut plain and clean all burrs for proper and cap fit.

- 4. Mount device horizontally to the drilled position by security supplied mounting screws, and bolt device chassis to trim or sex bolt (if using).
- 5. Mark hole locations by holding end cap bracket lip into end of device body after device is level.
- 6. Drill and tap two mounting holes (no need to drill holes for wood door unless use SNB).
- 7. Install end cap bracket and end cap.



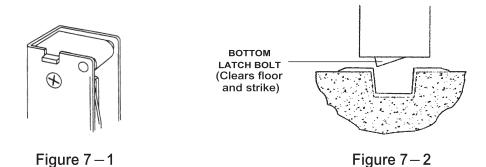
Screw # 1, 2, 3, 4: To fasten with sex bolts for installing device chassis

Screw # 5, 6: To fasten device outside trim use

Figure 6 –2

### 7 TEST OPERATION AND HANG DOOR

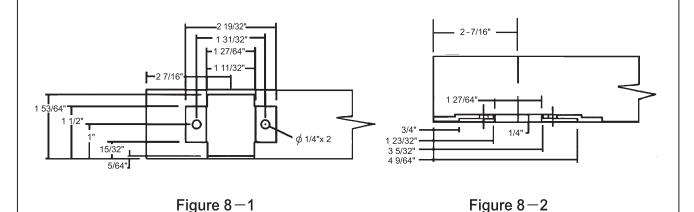
1. Depress push bar, top latch bolt should be retracted as shown in Figure 7-1, and bottom latch bolt clears floor and bottom strike as shown in Figure 7-2.



- 2. Release push bar, make sure both top latch bolt and bottom latch bolt should be fully extended.
- 3. Depress deadlock plate to check top latch bolt for deadlocking by thumb pressing, latch bolt should not be pushed in.
- 4. Check device operation by depressing and releasing push bar for several times to assure final correct installation.
- 5. Hang door (with device) and repeat operation check with outside lever.
- 6. Redo rod length adjustment if either top latch bolt is not held retracted or bottom latch bolt does not clear floor and bottom strike.

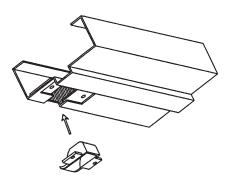
# 8 INSTALL TOP STRIKE

- 1. Prepare frame
  - 1-1 Cut out a square hole on the frame for top strike as per Figure 8-1.
  - 1-2 To weld two 3mm thick-hold plates on the frame as per Figure 8-2.
  - 1-3 Drill holes and tap # M5-0.8 on the hold plates.



8

2. Install the Top Strike on the strike site (see Figure 8-3), and fasten with supplied screws (see Figure 8-4).



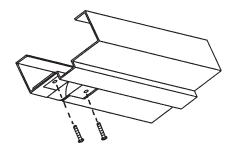
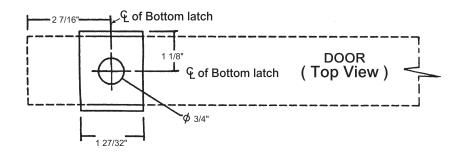


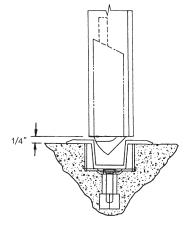
Figure 8-3

Figure 8-4

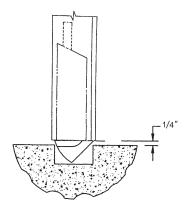
## 9 INSTALL BOTTOM STRIKE

- 1. Bore the hole on finished floor or threshold as per the figure below.
- 2. Install bottom strike into the hole.





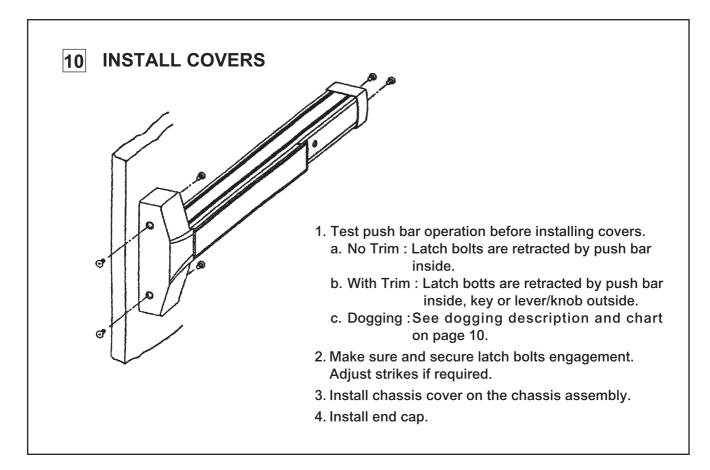
Strike application

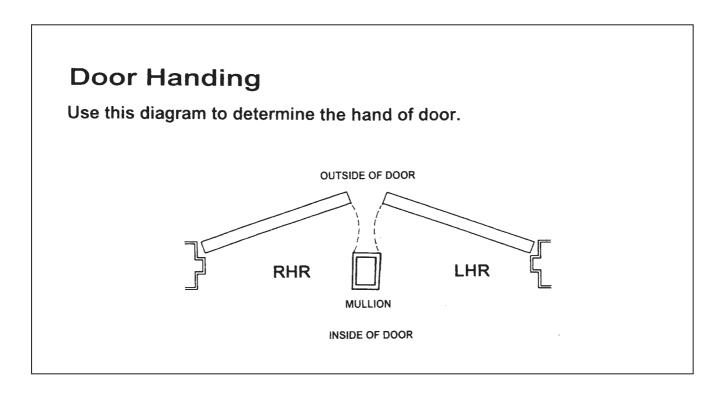


Flat threshold application (Panic Device Only)

#### NOTE:

For flat thresholds the clearance must be provided in sill to accommodate full 9/16"(15mm) throw of latch bolt.





# **NOTE:**

For extending the life of this device, dogging device during high traffic period of the day (Panic device only).

#### Dogging:

Depress push bar, insert dogging hex wrench, and turn clockwise 30 degrees. The push bar will remain depressed and the latch will stay retracted.

#### Release Dogging:

Hold push bar, insert dogging hex wrench, and turn counterclockwise 30 degrees. The push bar will return to the up position and latch will extend to lock door.

