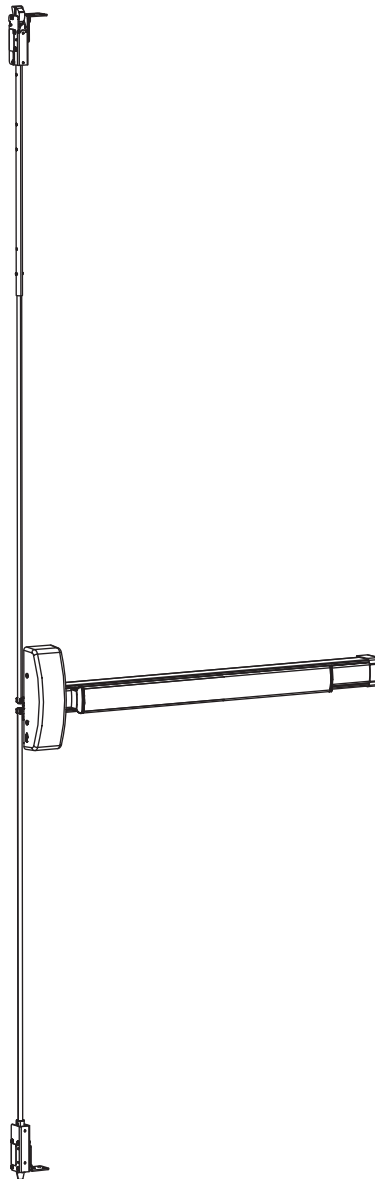


# Concealed Vertical Rod Exit Device

Series 2700 | FL2700 | 2700LBR | FL2700LBR (reversible)

Installation Instructions



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# 1 Important safety information

## 1.1 Safety warnings

1.1.1 Safety instructions: To reduce risk of injury or damage, carefully read and follow safety warnings, cautions and notices provided.

1.1.2 Safety warnings: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **WARNING**

1.1.3 Safety cautions: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **CAUTION**

1.1.4 Notice: Indicates information considered important but not directly hazard-related.

**NOTICE**

- Protect inside of device from metal shavings.

# 2 Technical specifications

## 2.1 Tools needed

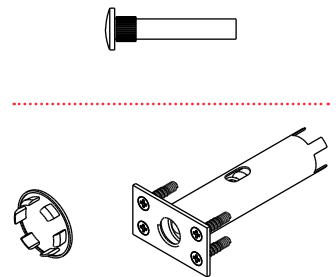
Phillips head screwdriver	Level	Drill bits: 3/32", #25, 7/32", 1/4", 5/16", 13/32", 3/8", 9/16", 5/8", 3/4", 1"	Hacksaw
Flat head screwdriver	Drill	Hole saw: 1-1/8", 1-3/8", 1-1/2", 1-3/4"	Tap: #10-24

## 2.2 Important information

### For fire exit devices series FL2700 and FL2700LBR:

Six bolts or through bolts are required for composite (wood, plastic and steel covered), wood core, sheet metal and hollow metal doors without reinforcement unless door manufacturer has an alternate mounting method. Fire doors with steel reinforcement, mount devices with machine screws.

**NOTE: Fire rated device with less bottom rod applications must use fire bolt.**

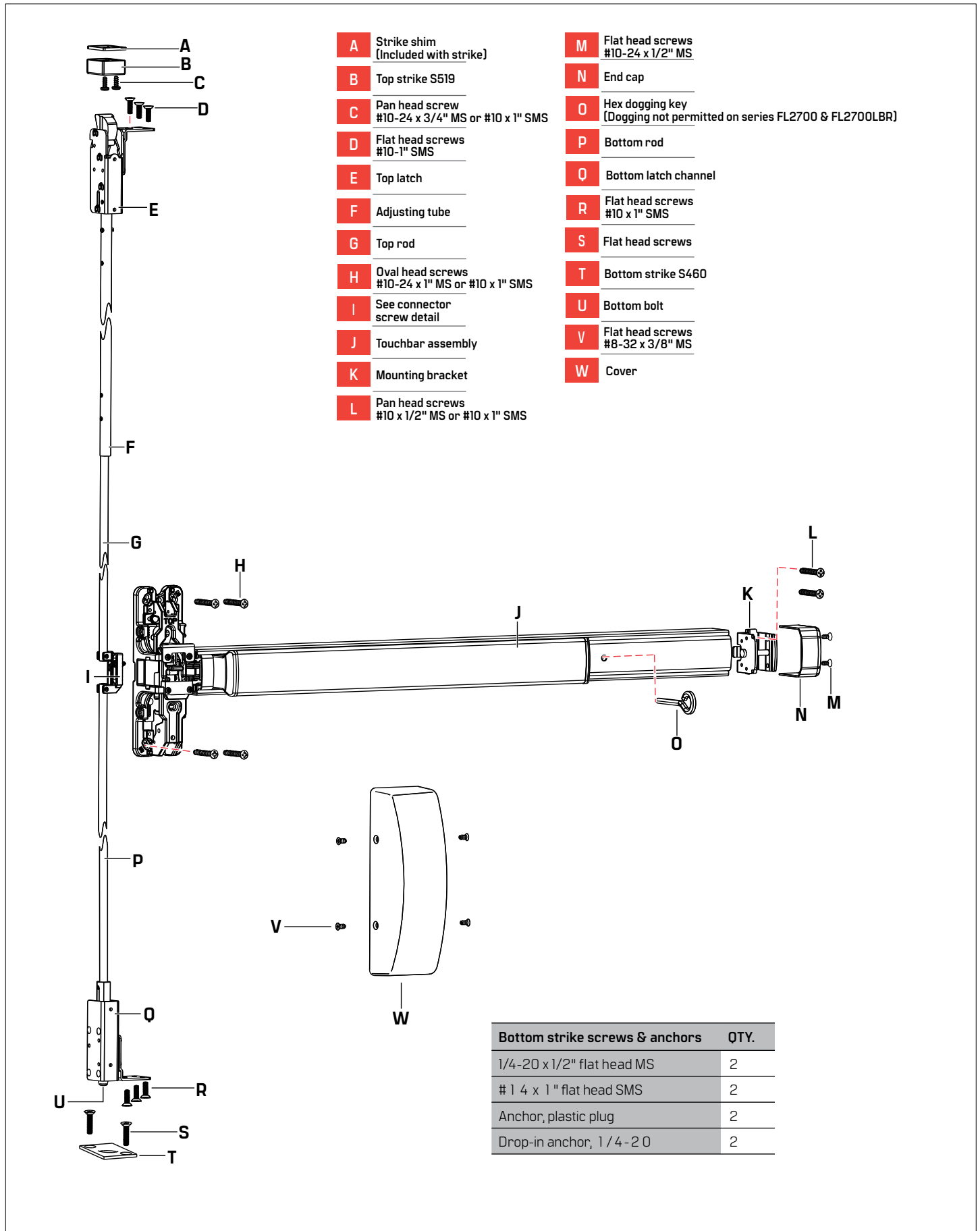


## 2.3 Measurements

2.3.1 All dimensions are given in inches [millimeters].

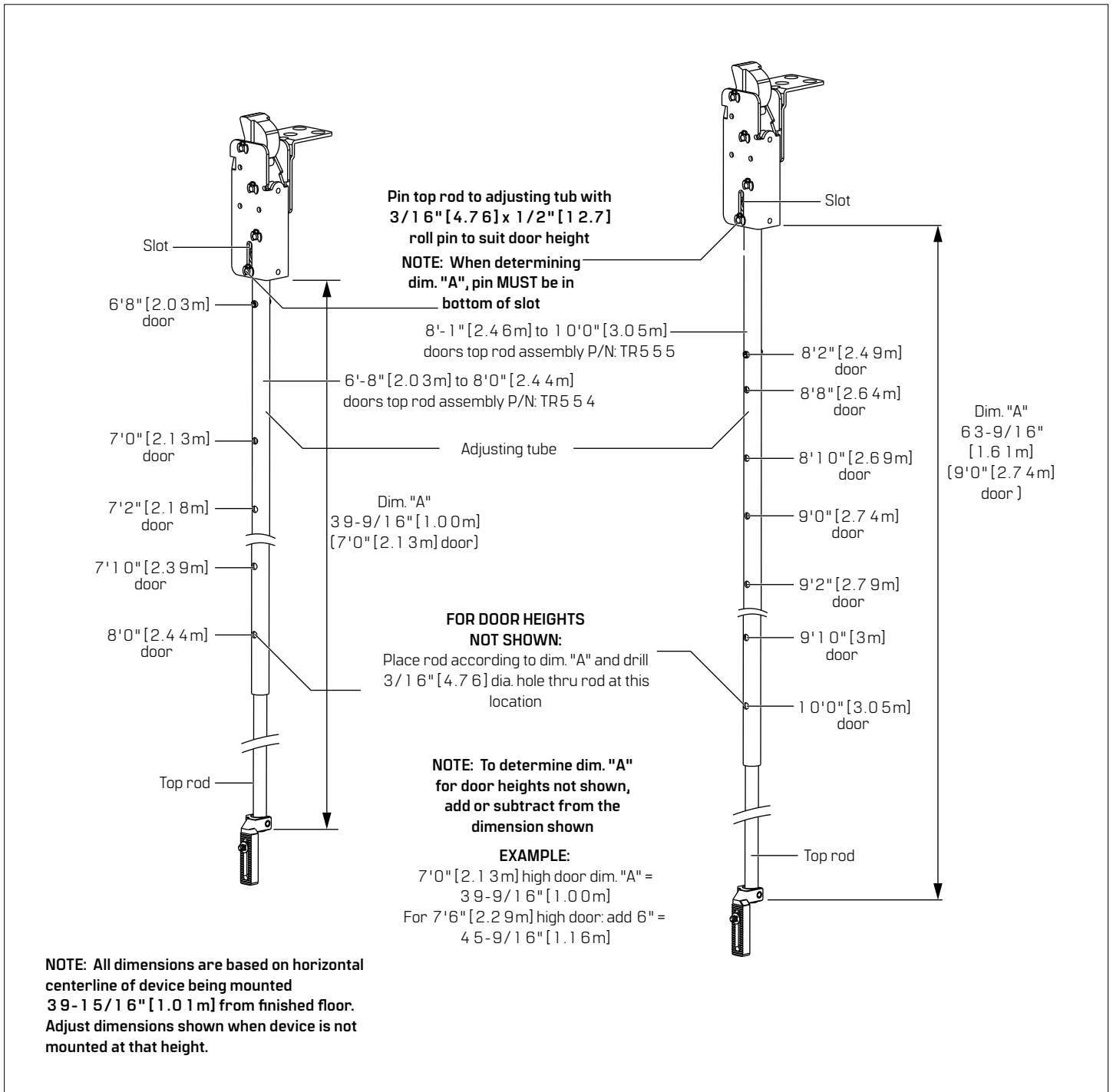
## 2.4 Overview and parts list

Fig. 1



## 2.5 Rod height adjustment

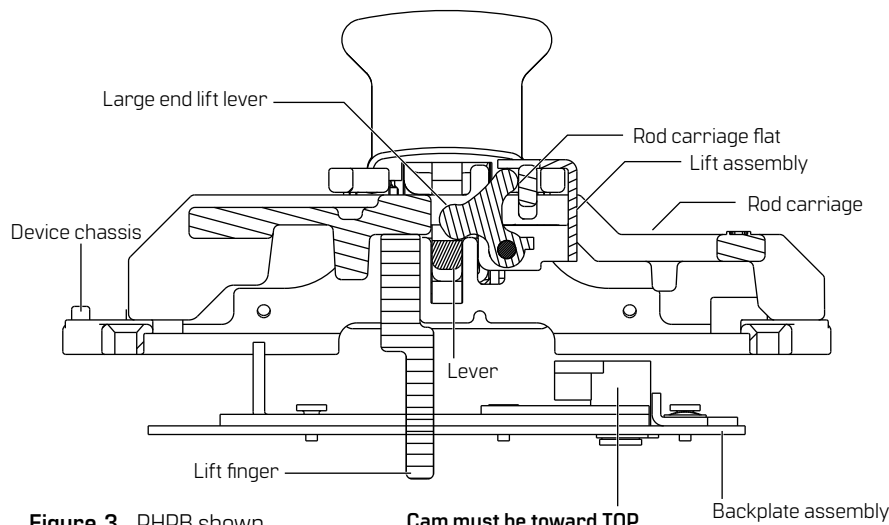
Fig. 2



# 3 Device preparation

## 3.1 Changing handing (if necessary)

Fig. 3, Fig. 4, Fig. 5

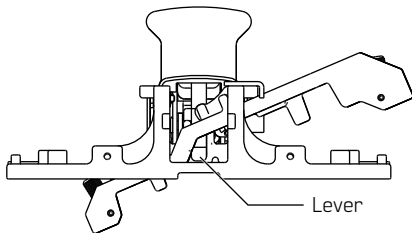


**Figure 3** RHRB shown

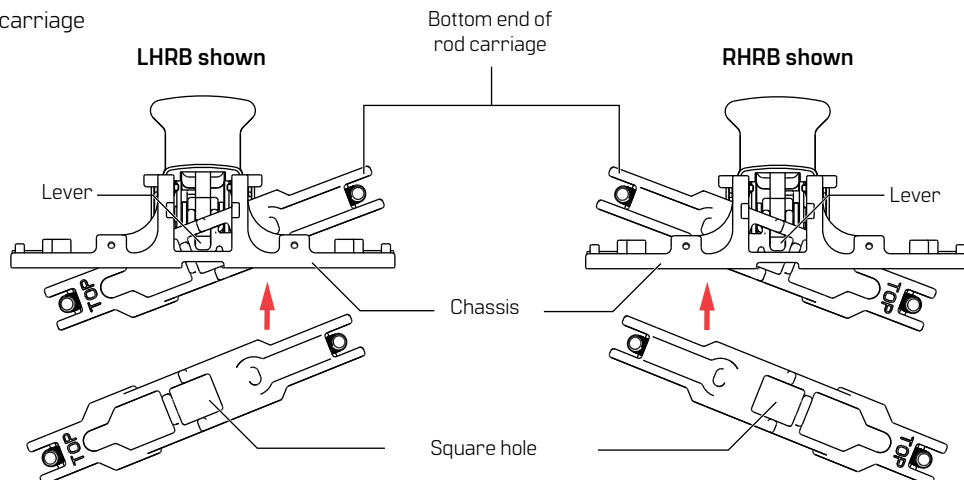
**Cam must be toward TOP  
marked on rod carriage**

- 3.1.1 Remove backplate assembly [ 4 screws].
- 3.1.2 Place device on a bench so device chassis is off edge.
- 3.1.3 Remove lift assembly [ 2 screws].
- 3.1.4 Slide rod carriage end marked TOP toward lever. Rod carriage will begin to fall, as shown in Fig. 4.

- 3.1.5 Rotate rod carriage until it falls out.
- 3.1.6 Insert bottom end of rod carriage into the opposite side of the chassis, as shown in Fig. 4.
- 3.1.7 With lever in square hole, rotate rod carriage 90° so it is in the same position, as step 3.1.4.
- 3.1.8 Push up and slide rod carriage onto chassis.
- 3.1.9 Insert lift assembly into rod carriage, making sure large end of lift lever is on top of lever and other end is against rod carriage flat.
- 3.1.10 Attach with two screws.
- 3.1.11 Secure backplate assembly with four screws.



**Figure 4** Rod carriage



**Figure 5** Lift lever

## 3.2 Changing function (if necessary)

Fig. 6

- 3.2.1 Remove backplate assembly [ 4 screws].
- 3.2.2 Remove cam and rotate 180°.

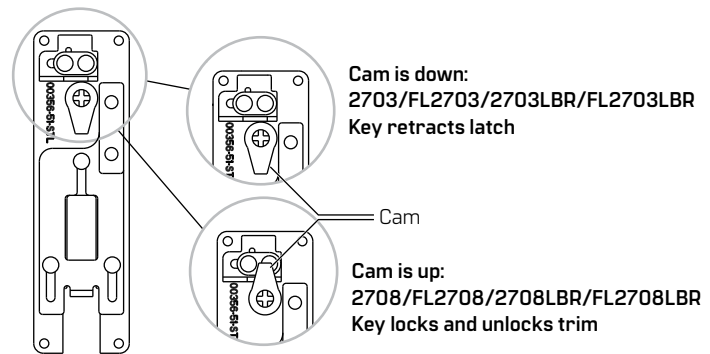


Figure 6 Cam rotation

## 3.3 Cutting device (if necessary)

Fig. 7, Fig. 8

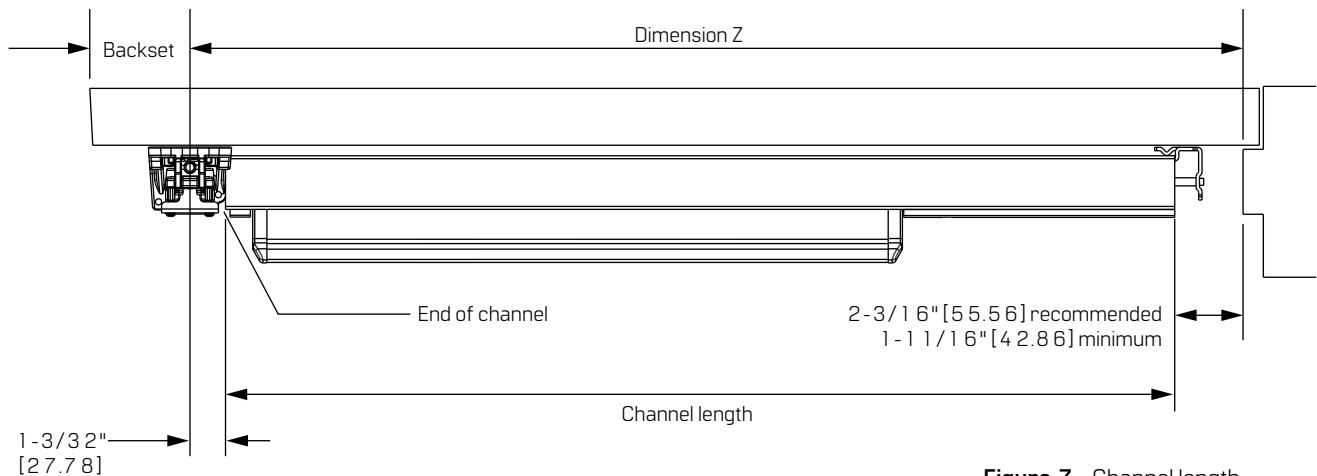


Figure 7 Channel length

- 3.3.1 Determine proper channel length by subtracting 3- 1/4 " [8 2.5 5] from dimension Z.
- 3.3.2 Mark cut-off point  
**NOTE: Hinge side filler must be all the way inside of channel.**
- 3.3.3 Cut off channel and hinge side filler and deburr.

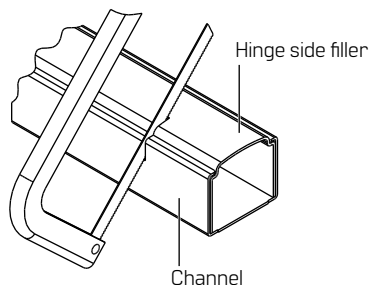


Figure 8 Cutting device

### NOTICE

Protect inside of device from metal shavings.

### NOTICE

If your device is equipped with ALK, CD, DE, or DS refer to instruction sheet listed below prior to cutting device.

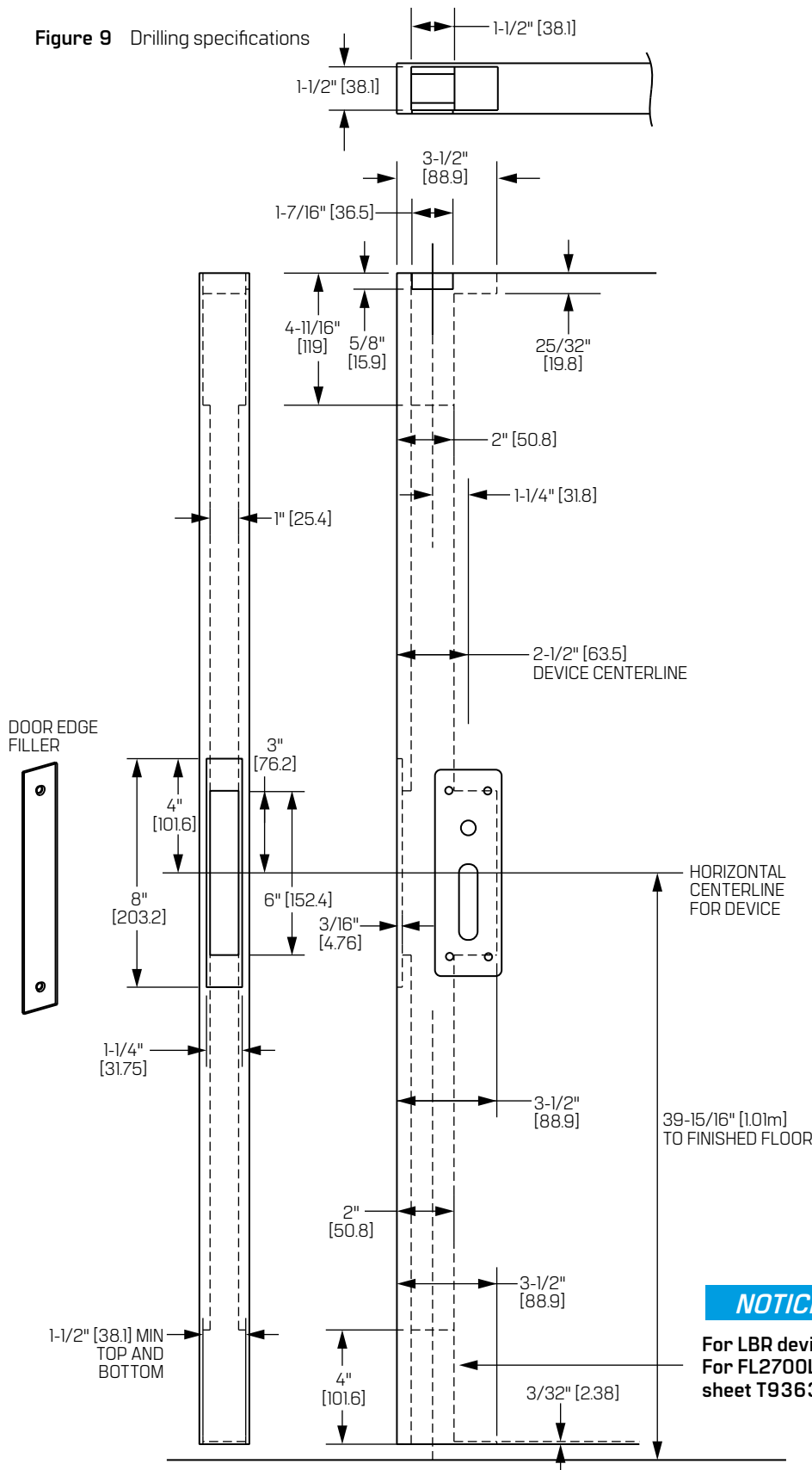
<b>ALK</b>	Alarm kit	T93642
<b>CD</b>	Cylinder dogging	T93616
<b>DE</b>	Delayed egress	T93654
<b>DS</b>	Door position	T93668

# 4 Installation instructions

## 4.1 Prepping door

Fig. 9

Figure 9 Drilling specifications

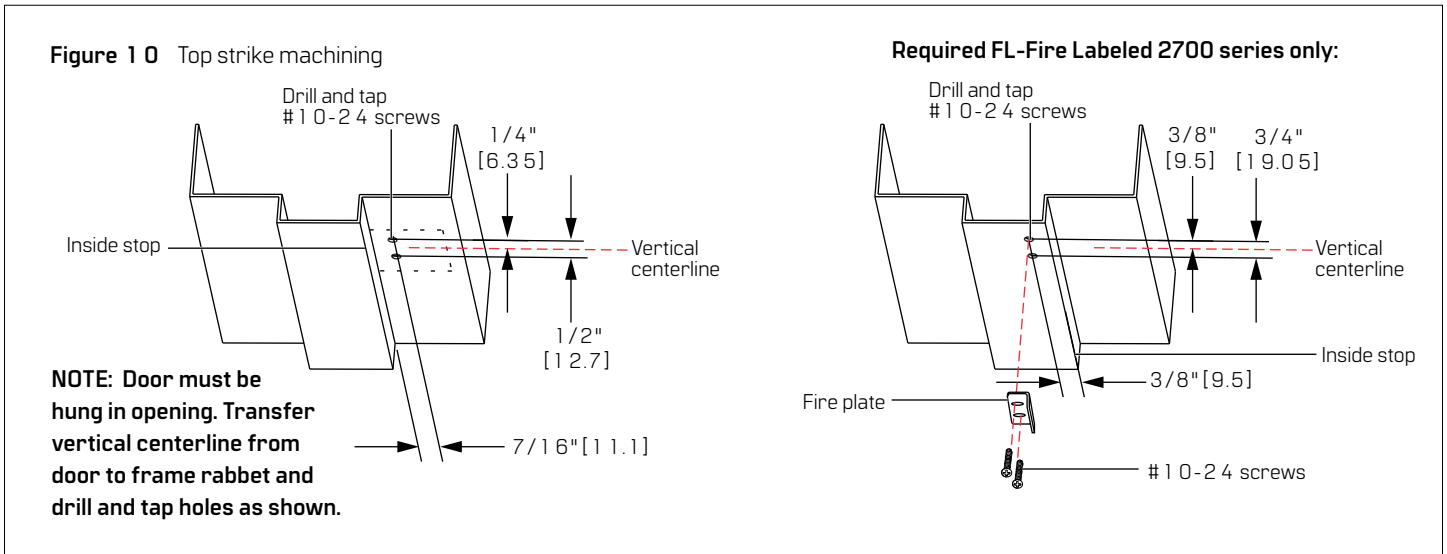


- 4.1.1 Circle trim number, if specified, at various locations for hole B and hole C on trim template.
- 4.1.2 Mark horizontal centerline on inside face of door 39 - 1 5 / 1 6" [1.01m] from finished floor.  
**NOTE: Continue horizontal centerline to outside face of door if trim is specified.**
- 4.1.3 Mark vertical centerline with 2 - 1 / 2" [63.5] backset indicated at lock side 6" [152.4] above and below horizontal centerline.  
**NOTE: If trim is specified, mark vertical centerline at lock side using same backset dimension on outside face of door.**  
**NOTE: Vertical centerlines on both sides of the door should be the same dimension from the edge of the door.**
- 4.1.4 Mark vertical latch centerline 1 - 1 / 4" [31.8] from device vertical centerline 6" [152.4] from top edge of door (see Fig. 10).
- 4.1.5 Tape lock stile case, and trim template if trim specified, to door so that the centerlines on the template line up with centerlines on door.
- 4.1.6 Mark centers and drill required holes as indicated on templates.

### NOTICE

For LBR device, omit prep for bottom latch.  
For FL2700LBR devices, see fire bolt installation sheet T93637.

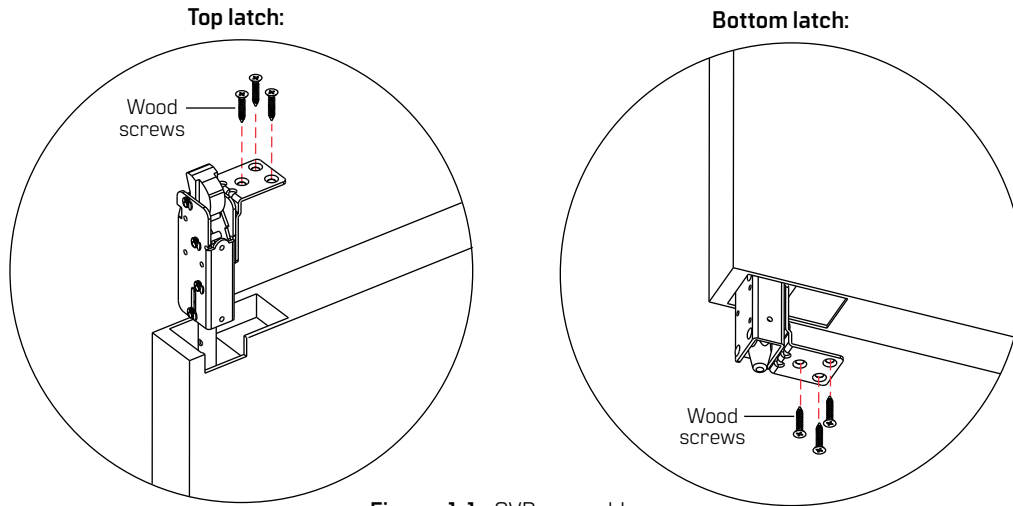
Fig. 1 0



## 4.2 Installing latches

Fig. 1 1

4.2.1 Mount top and bottom latches using three wood screws.



**Figure 1 1** CVR assembly

## 4.3 Installing device

Fig. 1 2, Fig. 1 3

**NOTE:** If trim is specified, see trim installation instructions packaged with trim. If exit device has electrical or other options, see specific option instructions packaged in exit device carton.

### 4.3.1 Lock stile case mounting:

- **Device with trim:** See trim instructions.
- **Cylinder only:** Install cylinder with cylinder backplate, as shown. Make sure tailpiece is extending 1/2" [1 2.7] to 7/8" [2 2.2] from inside face of door. Insert tailpiece into cam in lock stile case and mount to door with four screws.
- **Exit only:** Mount lock stile case to door with four screws.

### 4.3.2 Insert mounting bracket into touch bar assembly tight against channel.

### 4.3.3 Level device, mark and drill two holes for # 1 0 sheet metal screws or # 1 0-2 4 machine screws.

### 4.3.4 Fasten mounting bracket to door and attach endcap with two flat head screws.

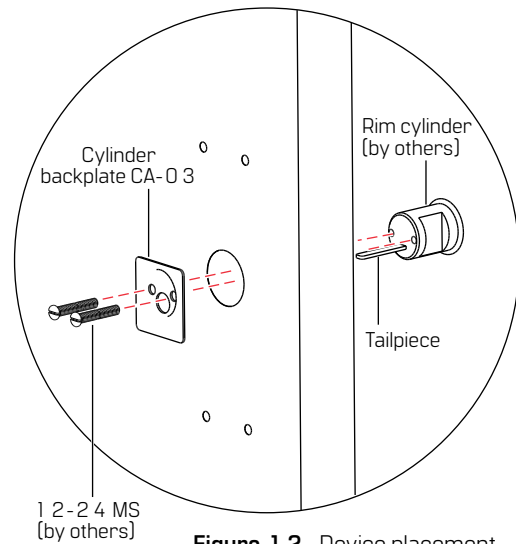


Figure 1 2 Device placement

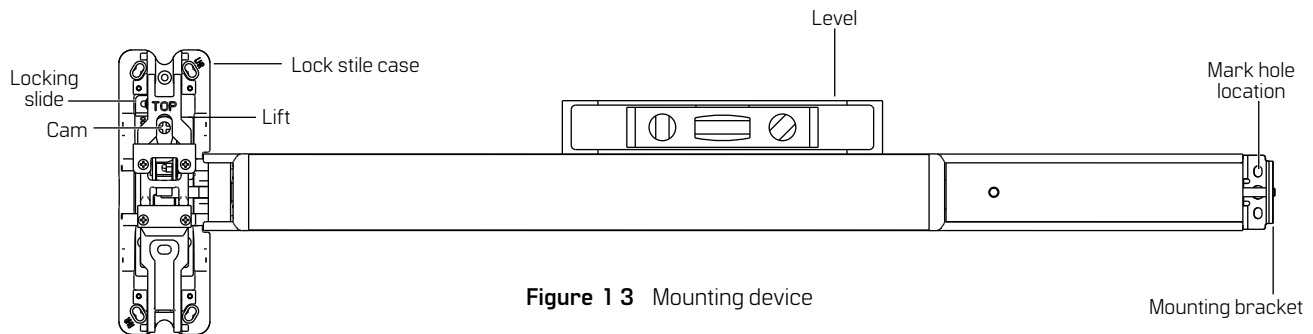


Figure 1 3 Mounting device

### NOTICE

For C1715 and 4914 trim, lift must be unlocked. Cam will move locking slide away from lift to unlock.

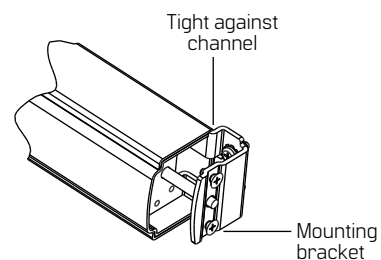


Figure 1 5 Mounting bracket

## 4.4 Latch assembly and adjustment

Fig. 1 4, Fig. 1 5

### Top latch assembly:

- 4.4.1 Pull top rod down to extend latchbolt.
  - If latchbolt doesn't extend, rotate latchbolt and pull rod down.
  - With latchbolt fully extended, pull rod down and attach to adapter.
  - When latchbolt is fully extended it should be in deadlock.

**NOTE: Deadlocking does not allow latchbolt to be pushed down into latch channel.**

- 4.4.2 Pushing on touch bar will retract latchbolt. Latch will stay retracted and device is in holdback.
- 4.4.3 If no holdback, loosen top rod screw and slide connector upward  $1/16$ " [1.6] (one notch in adapter). Repeat if necessary.

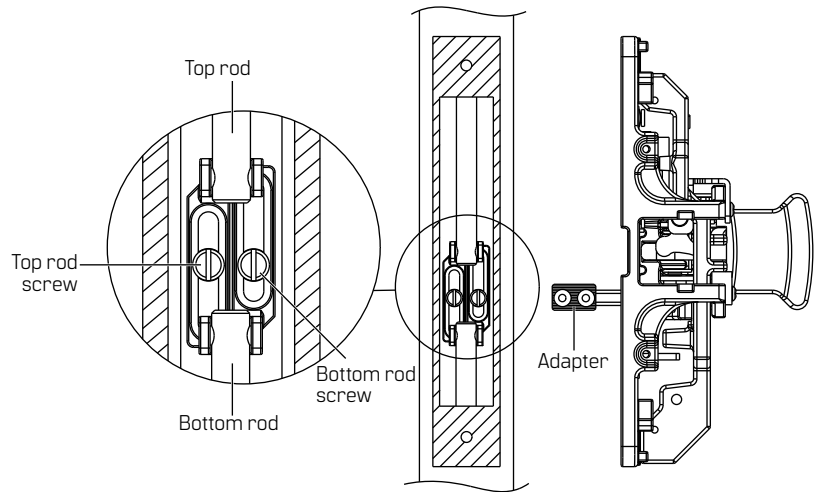


Figure 1 4 Latch adjustment

### Apply top strike:

- 4.4.4 Attach top strike to frame using two screws.
- 4.4.5 Adjust strike so device latches without binding.

**NOTE: If there is an excessive clearance between door and frame, apply strike shim.**

### LBR devices:

- 4.4.6 Attach lock stile case cover and door edge filler with two screws.

### Bottom bolt assembly:

- 4.4.7 With top latch in holdback and door open, position rod so bottom bolt has  $1/4$ " [6.35] clearance between fully extended bolt and surface where strike will be mounted.
- 4.4.8 Secure bottom rod to adapter.
- 4.4.9 Install door edge filler with two screws.

### Apply bottom strike:

- **For floor application:** Center strike around bolt. Mark floor for fasteners. Prepare floor for type of fastener furnished. Provide clearance in floor for bolt.
- **For threshold application:** Center strike around bolt. Provide hole in threshold to accept bolt. Mark threshold for fasteners. Prepare threshold according to type of fasteners provided.

- 4.4.10 Attach cover to lock stile chassis with four screws.

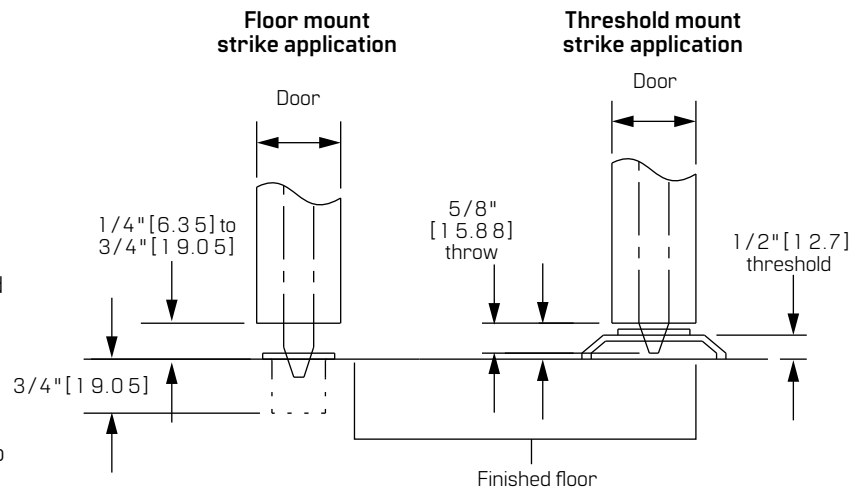


Figure 1 5 Bottom bolt application



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