

33/3547A

### **VON DUPRIN**®

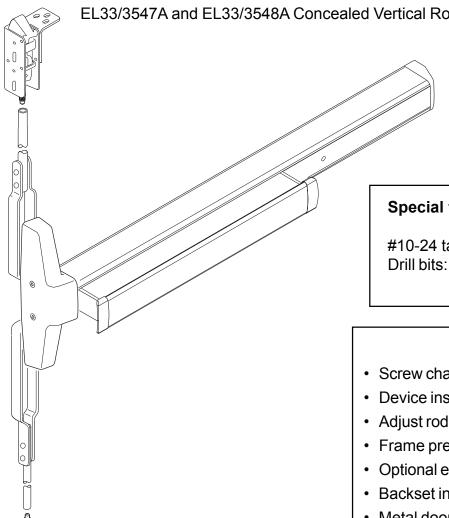
911404-00

Concealed Vertical Rod Exit Device

Installation Instructions

#### **Devices covered by these instructions:**

33/3547A and 33/3548A Concealed Vertical Rod Exit Device 33/3547A-F and 33/3548A-F Fire Concealed Vertical Rod Exit Device CD33/3547A and CD33/3548A Concealed Vertical Rod Exit Device EL33/3547A and EL33/3548A Concealed Vertical Rod Exit Device



#### Special tools needed:

#10-24 tap

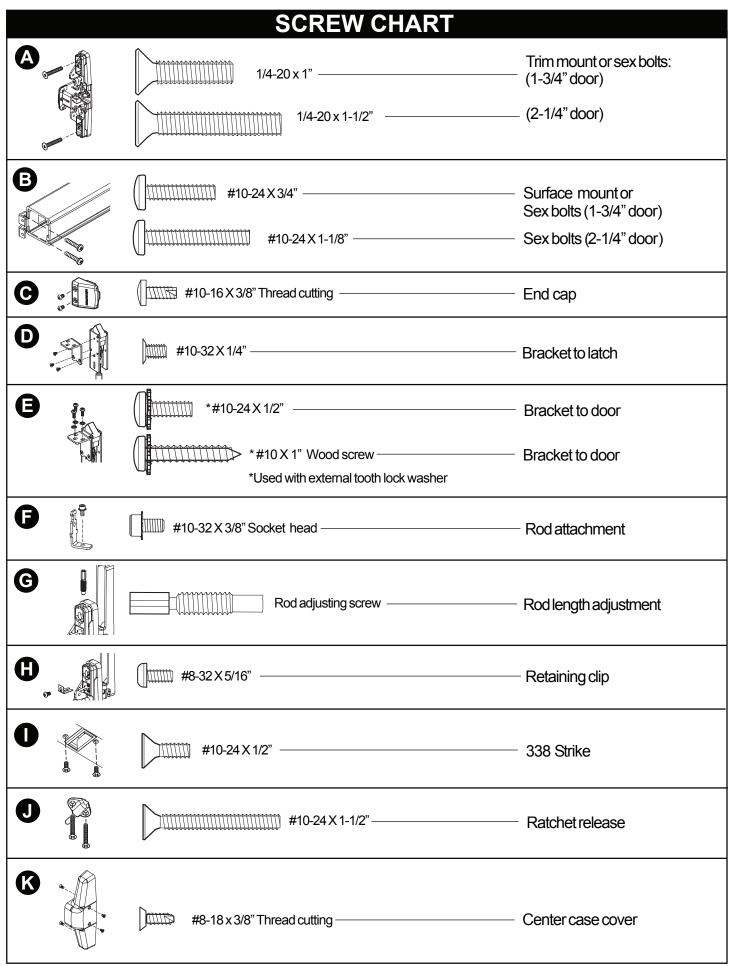
Drill bits: #25, 5/16",

13/32", 1/2"

#### Index:

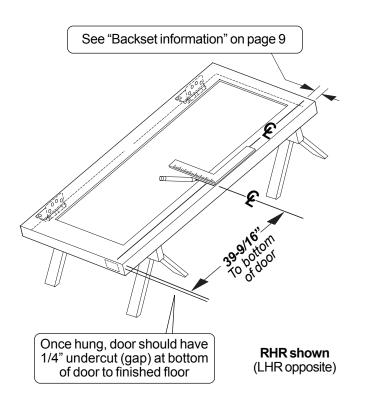
• Screw chart2
Device installation 3-5
• Adjust rods6
• Frame preparation7
Optional equipment 8
Backset information 9
Metal door templates 11-12
• Wood door preparation 13-14
• Wood door templates 15-16





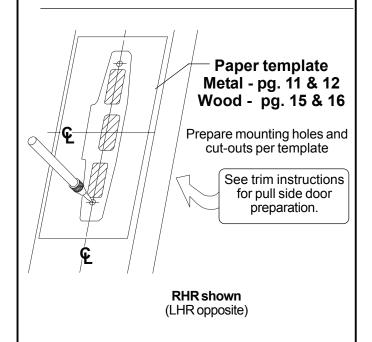
1

## Draw horizontal and vertical device center lines ( $\mathbb{C}$ ).



Place paper device template on door and prepare door.

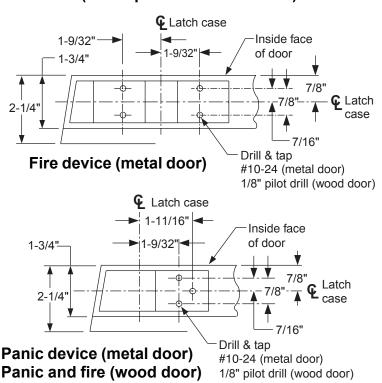
**For wood doors** - See pages 13 & 14 for special door preparation instructions.



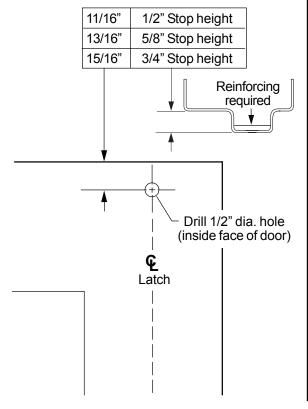
3

## Prepare top and bottom of door for latch mounting brackets.

## Latch cases (drill top and bottom of door)

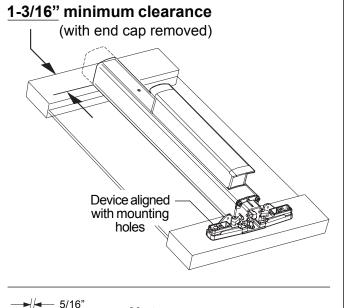


## Drill ratchet release hole in door.



## 5

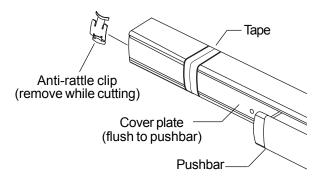
## Measure to determine length to cut device.



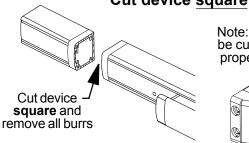
6

### Cut device to length.

### Prepare device for cutting



#### **Cut device square**



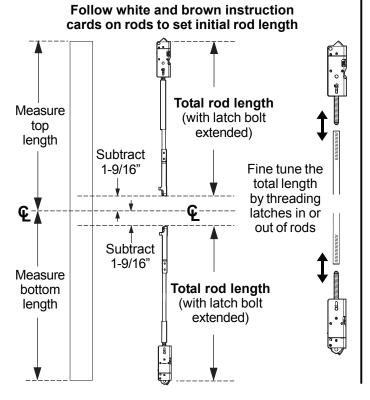
Note: Device must be cut **square** for proper end cap fit



### Note

If 5/8" diameter wire access hole has been predrilled in door, cut device 5/16" from center of hole.

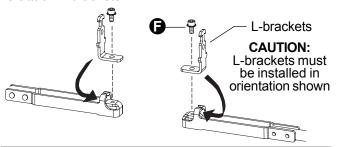
# Assemble rods and latches and adjust length.



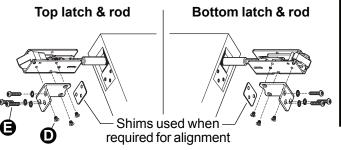
## 8

#### Install rods as shown.

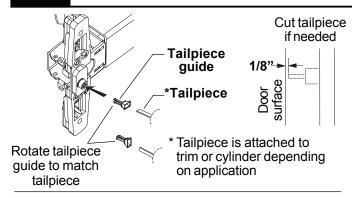
Rods are shipped with L-bracket attached. Insert rods with L-bracket pointing toward lock stile. Rotate rod until L-bracket protrudes through door cutout. If this is not possible, remove L-bracket and re-insert rod, then re-attach L-brackets.



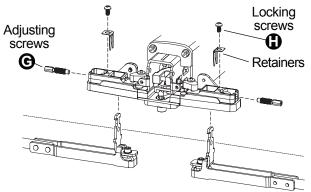
**NOTE:** Fire devices on metal doors use brackets on both sides of latches



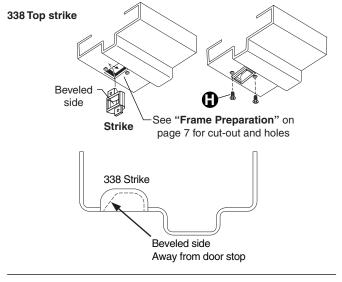
# Install tailpiece guide and attach rods to center case.

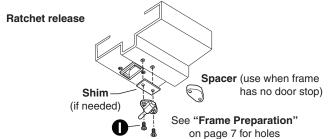


Place device over L- brackets and install adjusting screws, then install retainers and locking screws

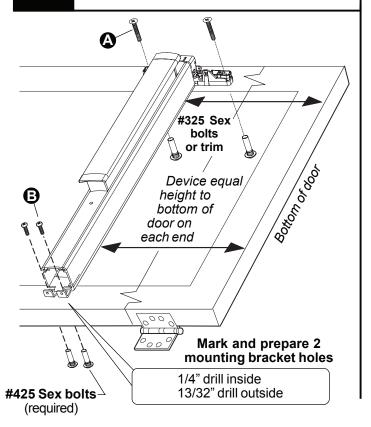


# Install top strike and ratchet release.



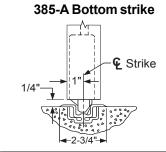


# Secure device to door and mount door to frame.



## 12

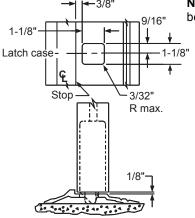
# Install bottom strike or prepare threshold.



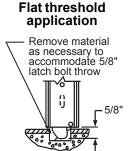


385-A strike has two pieces. Grout bottom piece into floor and attach top piece to bottom with screw through slot.

#### Threshold application



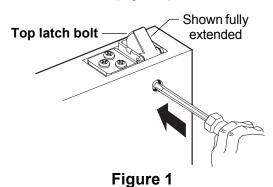
**Note:** Thresholds are not to be used with 33/3547A-F



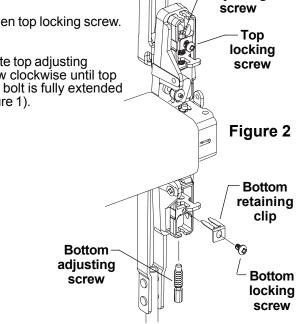
5

### **ADJUST RODS**

1. Open door and release top latch bolt as shown (Figure 1).



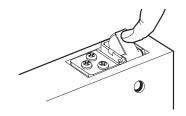
- 2. Remove bottom locking screw and retaining clip (Figure 2).
- 3. Disconnect bottom vertical rod by removing bottom adjusting screw.
- 4. Loosen top locking screw.
- 5. Rotate top adjusting screw clockwise until top latch bolt is fully extended (Figure 1).



Top

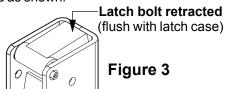
adjusting

Check top latch bolt for deadlocking (latch bolt should not push in).

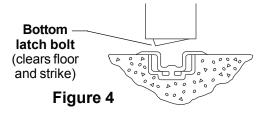


7. Turn top locking screw in against flat on adjusting screw. Do not over-tighten.

- 8. Depress pushbar and release.
- 9. Make sure top latch bolt stays retracted as shown.



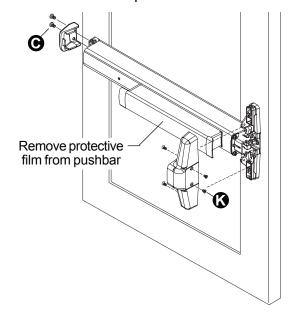
- **10.** Install bottom adjusting screw through bottom rod and install bottom retaining clip and locking screw (Figure 2).
- With top latch bolt still retracted, adjust bottom rod so latch bolt clears floor and bottom strike.



- 12. Close door and check bottom latch bolt for dead locking.
- After bottom rod is fully adjusted per steps 11 and 12, turn bottom locking screw in against flat on adjusting screw. Do not over-tighten.
- Check device operation by opening and closing door several times from the outside.

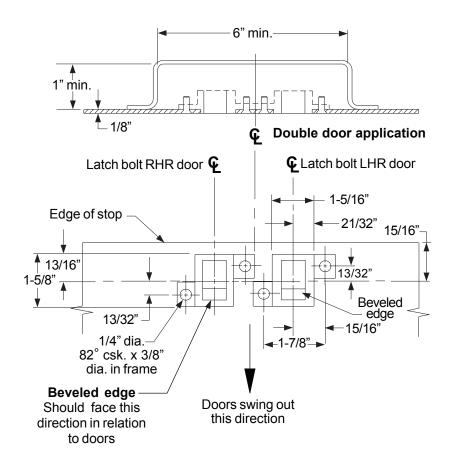
#### Redo adjustment procedure if:

- Top latchbolt is not held retracted
- Bottom latchbolt does not clear floor and bottom strike
- 15. Install end cap and center case covers.

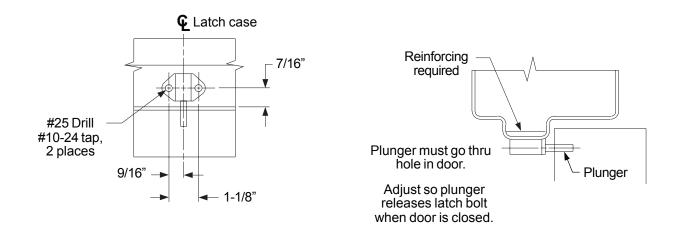


## FRAME PREPARATION

### 338 Top strike



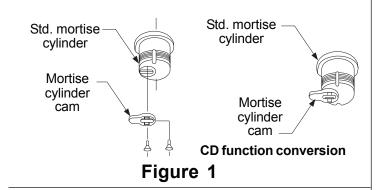
### Ratchet release



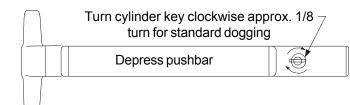
### **OPTIONAL EQUIPMENT**

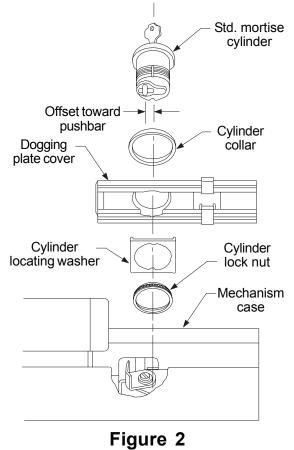
## **CD (CYLINDER DOGGING)**

- **1.** Remove mortise cylinder cam and reinstall in reverse (Figure 1).
- 2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
- **3.** Remove key to slide cover plate in position in the mechanism case.

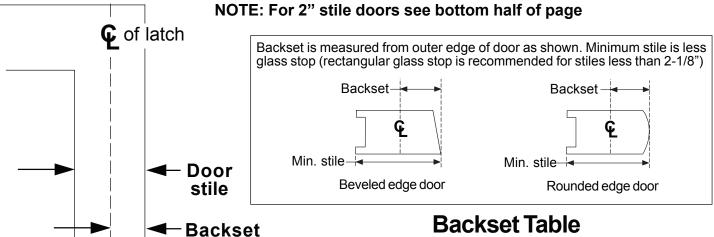


### **Dogging procedure**





### BACKSET INFORMATION

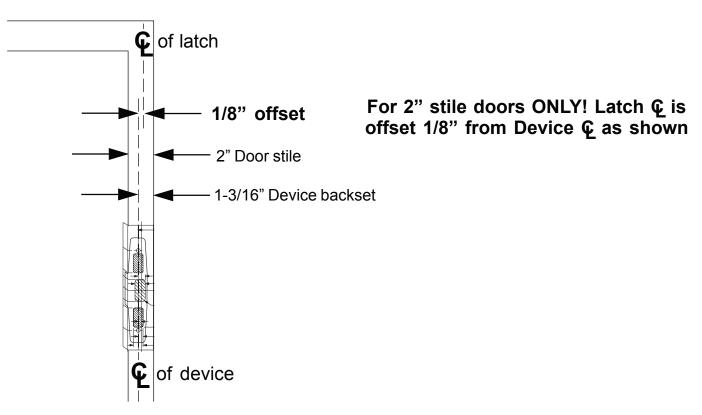


### **Backset Table**

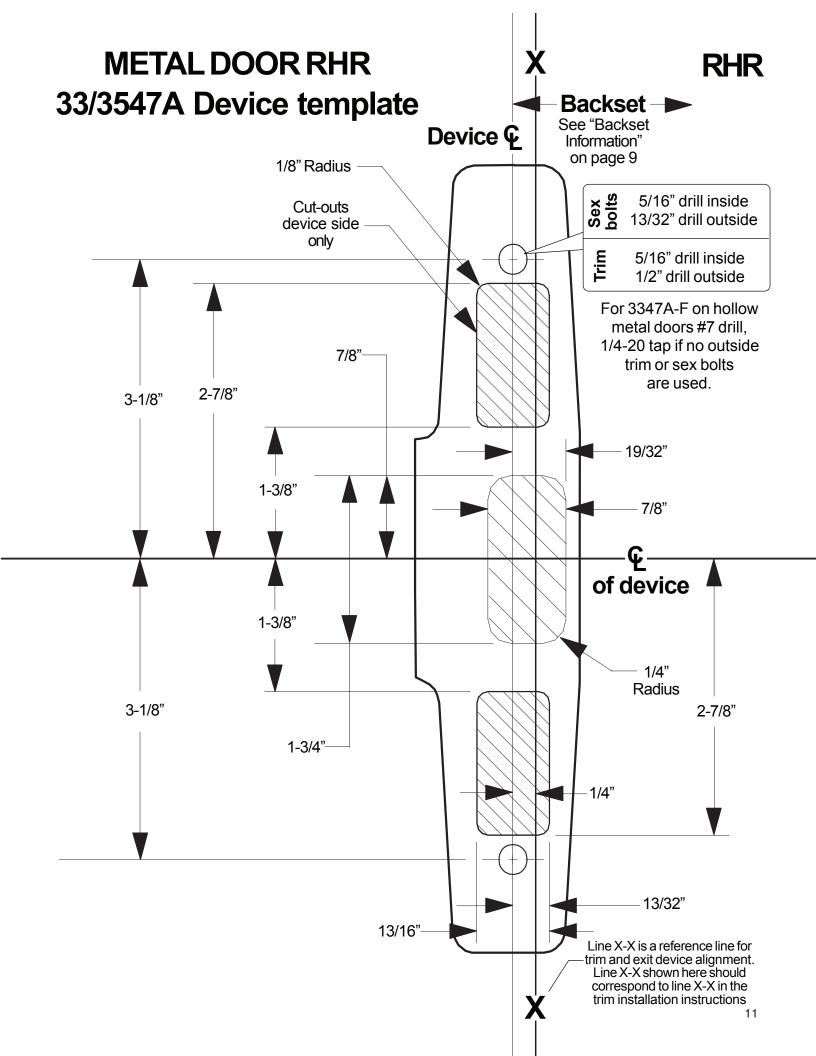
Door type	Backset	Min. stile	Application	
Wood	1-5/16"	NA	All	
Metal	1-3/16"	2-1/8"- 2-3/4"	Two vertical	
	1-1/2"	2-3/4"- 3-3/4"	rod devices (panic)	
	1-7/8"	3-3/4"- 5"		
	2-1/2"	5" to flush	(partic)	
	1-1/2"	2-1/2"- 3-3/4"	Single door (panic)	
	1-7/8"	3-3/4"- 5"		
	2-1/2"	5" to flush	(partic)	
	2-3/4"	3-5/8" to flush	Fire applications	

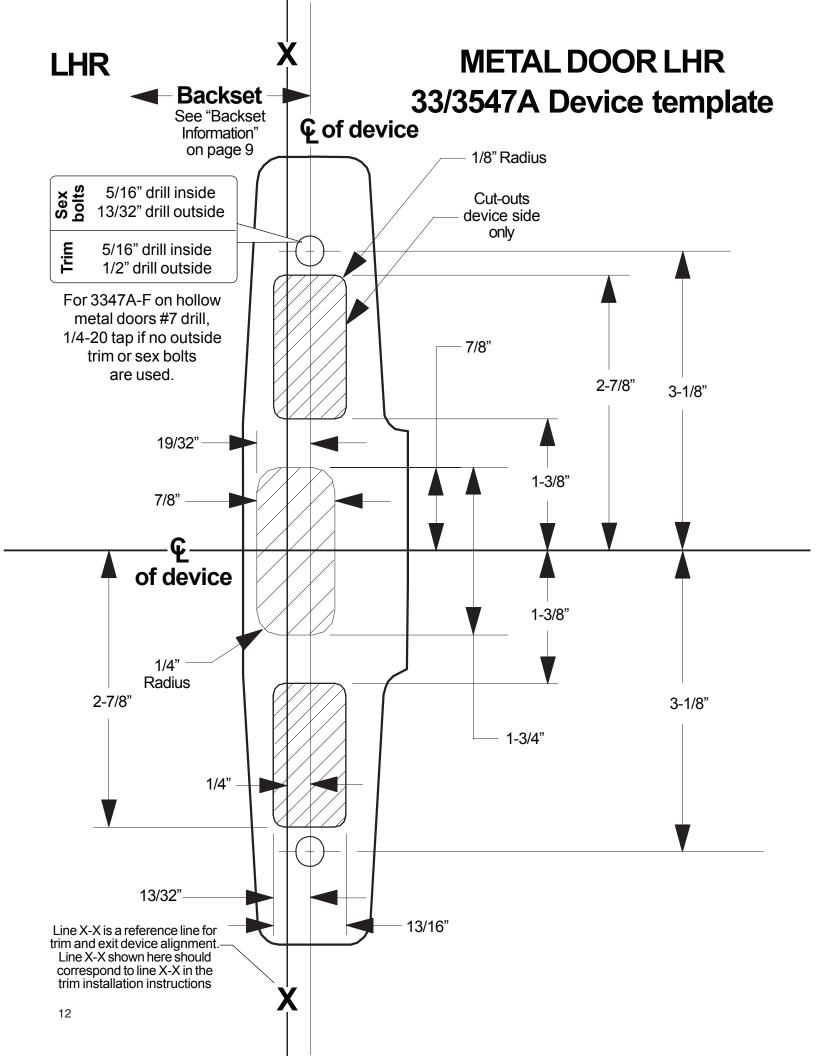
### **SPECIAL INSTRUCTIONS FOR 2" STILE DOORS**

**C** of device

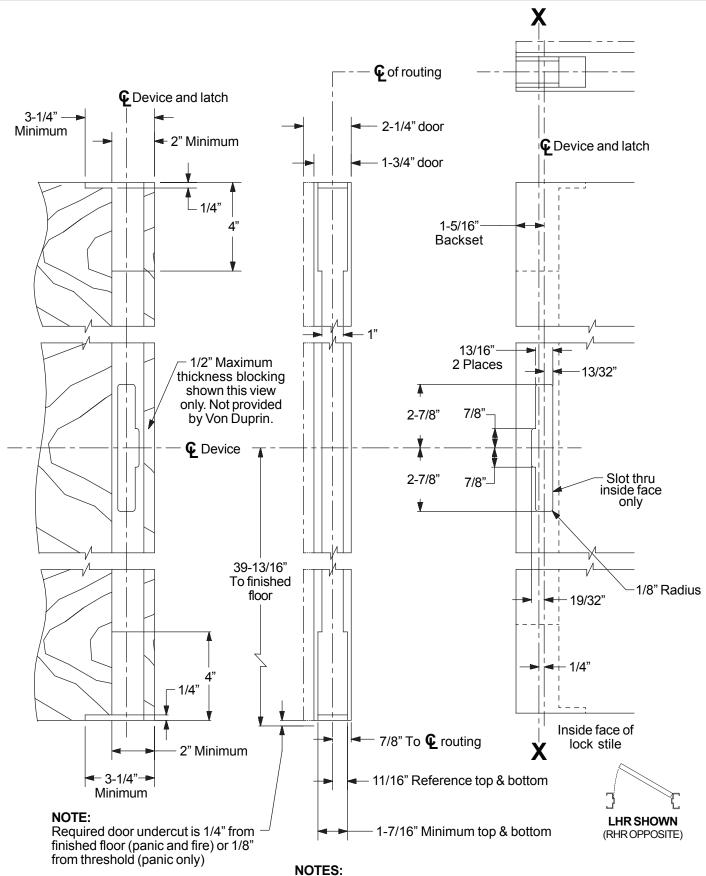


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## **WOOD DOOR PREPARATION - DOOR ROUTING**

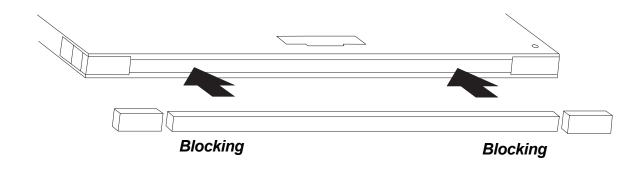


- 1. Mounting holes to be prepared at installation on door.
- 2. Trim or control application may require additional preparation, see trim or control instruction sheet.
- 3. Door edging should be installed after device installation.

## **WOOD DOOR PREPARATION - DOOR BLOCKING AND WRAP**

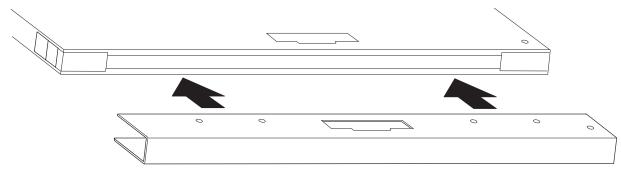
A. Install door blocking. See page 13 for door blocking dimensions.

Note: If not using door wrap, the blocking can be installed after device is installed.

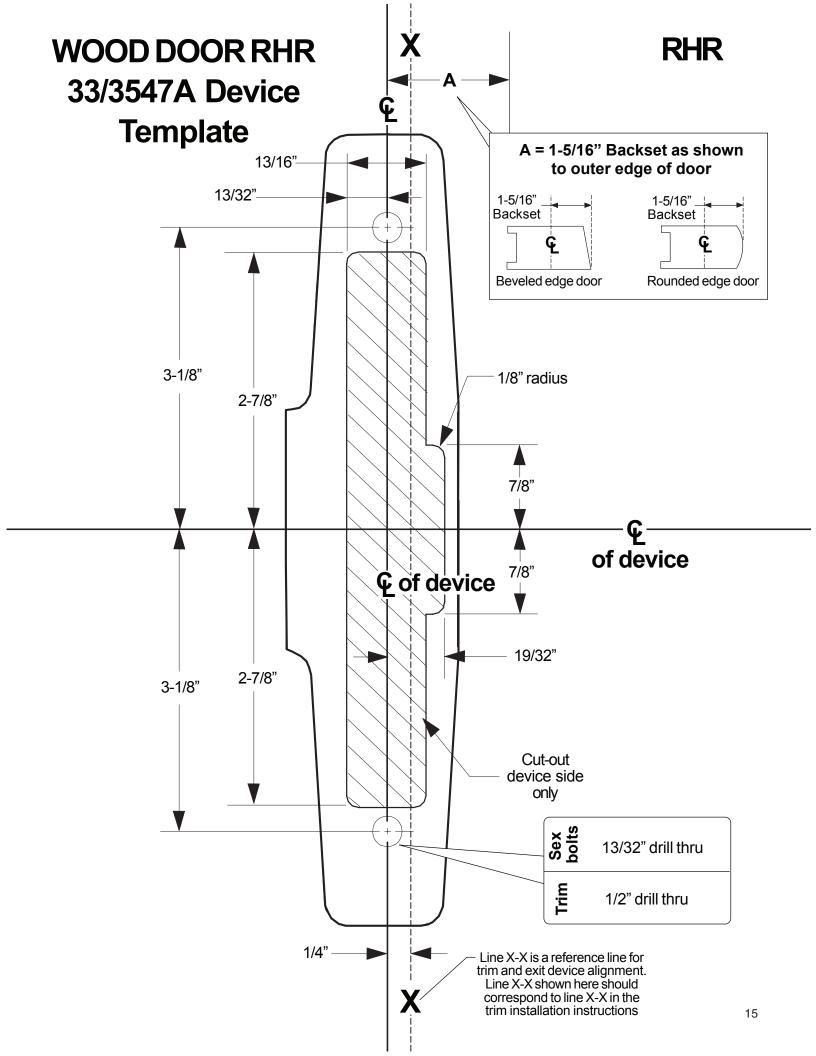


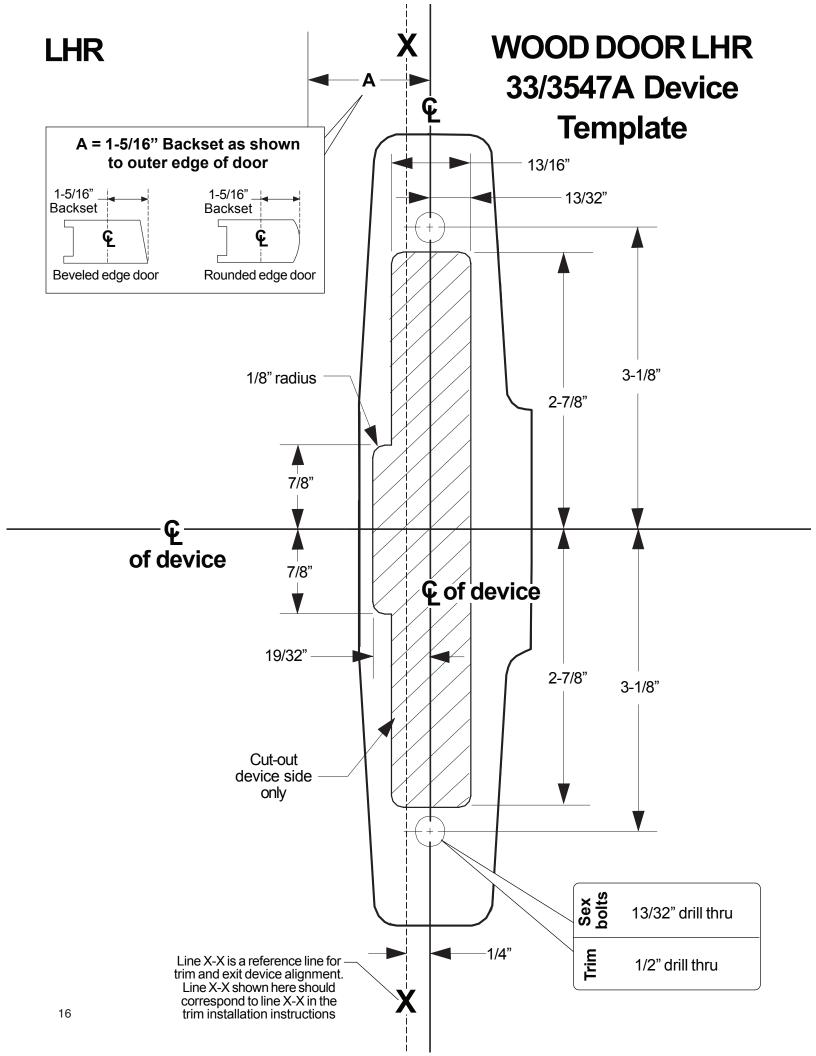
**B.** Install door wrap if needed. Door wrap is required for Fire rated (F) devices.

**Note:** Required on fire doors only, not supplied by Von Duprin (See door manufacturer's requirements)



Door wrap







921043-00

## 386DT/NL

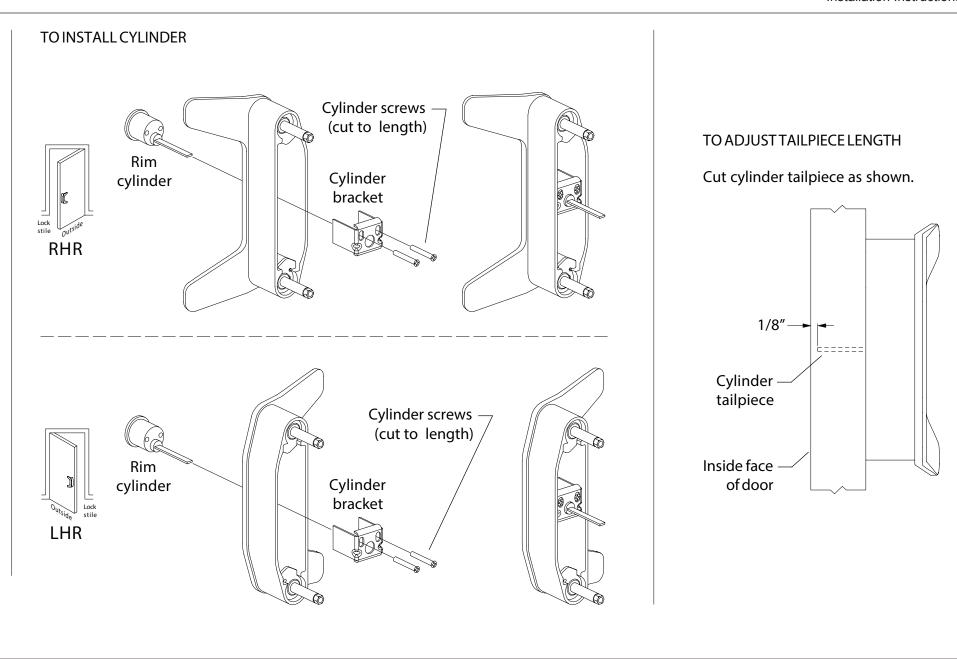
**VON DUPRIN**®

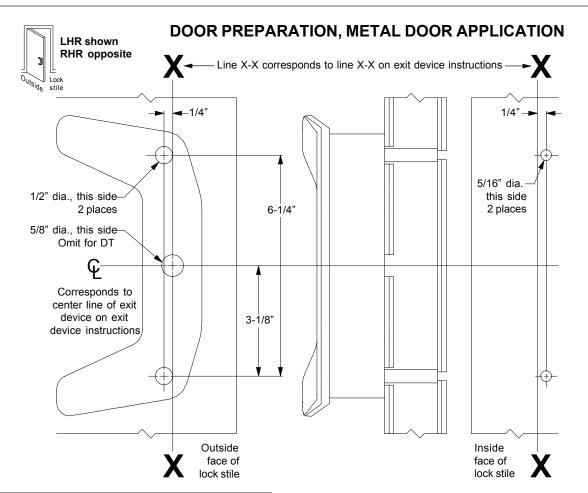
Installation Instructions

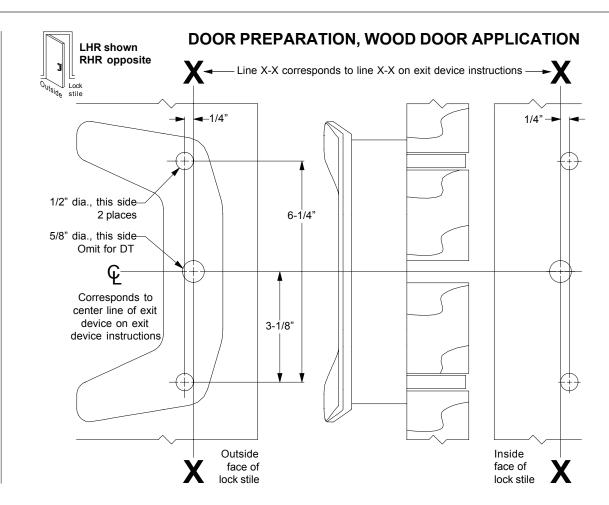
#### **INSTALLATION INSTRUCTIONS**

Trim for 33 series Rim & Vertical Exit Devices

- 1. Prepare door for exit device. See exit device instructions for holes, line X-X, and center lines.
- 2. Prepare door for trim:
  - A. Transfer line X-X from inside (exit device side) of door to outside (trim side) of door. Use extra care if edge of door is beveled. Be sure line X-X is parallel to edge of door.
  - B. Locate and prepare holes as shown on other side.
- 3. Prepare trim:
  - A. Install cylinder (386NL trim only).
  - B. If necessary, adjust cylinder tailpiece length (386NL trim only).
- 4. Apply exit device and trim.







Device Application Schedule				
	386N	386-DT		
33A/35A Rim Device	•	•		
3327A/3527A Vertical Rod Device	•	•		
3347A/3547A Vertical Rod Device	•	•		
3348A/3548A Vertical Rod Device	•	•		
3327A-F/3527A-F Vertical Rod Device	•			
3347A-F/3547A-F Vertical Rod Device	•			
3348A-F/3548A-F Vertical Rod Device	•			

For cutouts on inside face of door, see exit device instructions.