



# GBK

# VON DUPRIN®

**941913-00**

Glass Bead Shims for 22-F, 2227-F, 98-F/99-F, 9827-F/9927-F, and XP98-F/XP99-F

Installation Instructions

**1** Prepare inside face of door per device installation instructions.

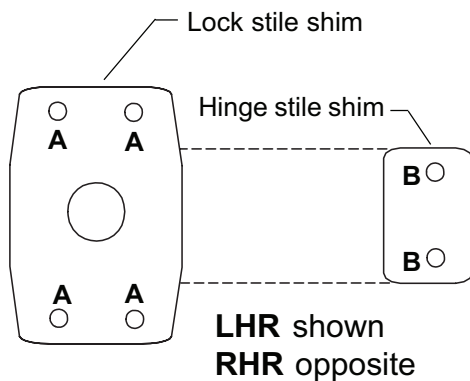
**2** Insert shims between the device and door (Figure 1).

① **Note: Shims are handed and flipped for RH or LH application.**

**3** Secure device and strike hook with screws provided in this kit, see chart below.

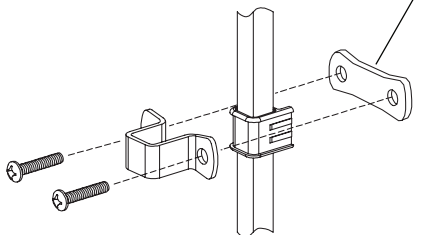
| Screw size & type |                        | QTY | Application                    | 1-3/4" door | 2-1/4" door |
|-------------------|------------------------|-----|--------------------------------|-------------|-------------|
| <b>A</b>          | #10-24 x 1-1/8" PPHMS  | 4   | Surface                        | ✓           | ✓           |
|                   | #10-24 x 1-1/8" PPHMS  | 4   | Sex bolts                      | ✓           |             |
|                   | #10-24 x 1-1/2" PPHMS  | 4   | 990 trims                      | ✓           |             |
|                   | #10-24 x 1-3/4" PPHMS  | 4   | Sex bolts                      |             | ✓           |
|                   | #10-24 x 2" PPHMS      | 4   | 990 trims                      |             | ✓           |
| <b>B</b>          | #10-24 x 1" PPHMS      | 2   | Surface - All metal doors      | ✓           | ✓           |
|                   | #10-16 x 1-1/4" PPHSMS | 2   | Surface - All solid wood doors | ✓           | ✓           |
|                   | #10-24 x 1" PPHMS      | 2   | Sex bolts                      | ✓           |             |
|                   | #10-24 x 1-1/2" PPHMS  | 2   | Sex bolts                      |             | ✓           |

## 22-F & 2227-F

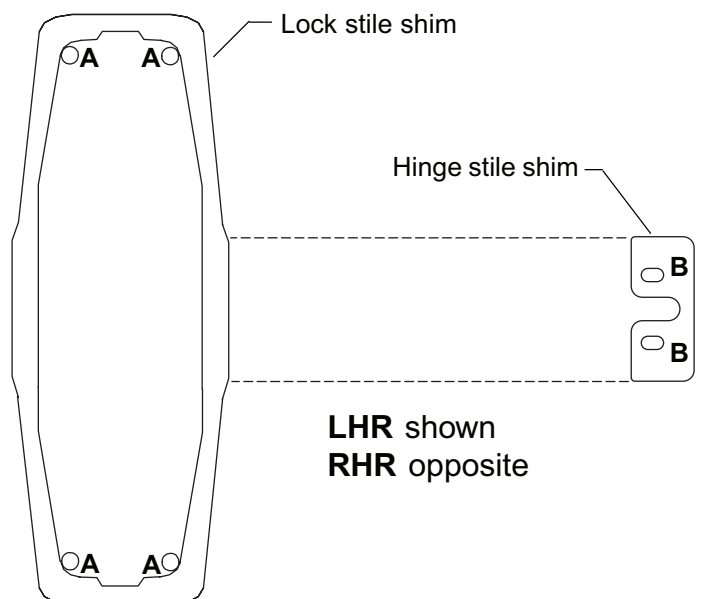


## Rod Guide Shim

No special screws required



## 98-F/99-F, 9827-F/9927-F & XP98-F/XP99-F



## Customer Service

1-877-671-7011 [www.allegion.com/us](http://www.allegion.com/us)



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941914-00

# Glass Bead Shim Kit

**VON DUPRIN®**

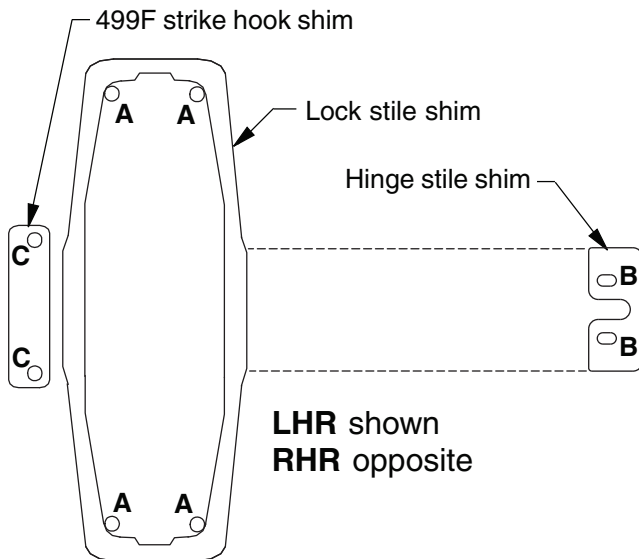
For XP98-F/XP99-F (954 Strike),  
22-F & 98/99-F (499F Strike)

Installation Instructions

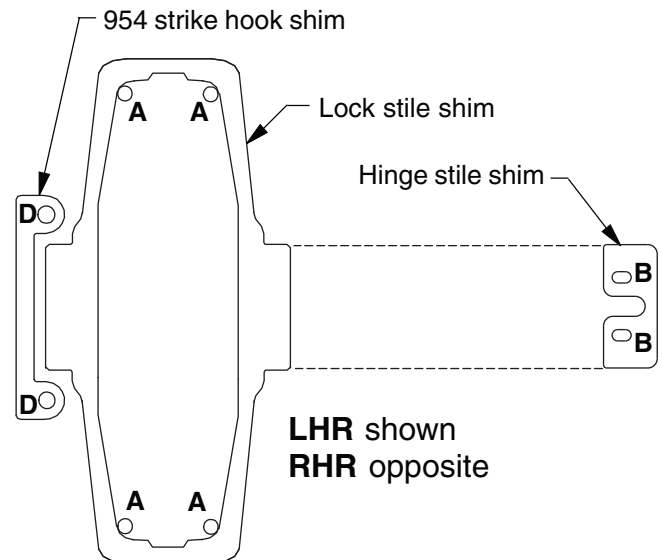
1. Prepare inside face of door per device installation instructions.
2. Insert shims between the device and door (Figure 1).  
**Note:** Shims are handed and flipped for RH or LH application.
3. Secure device and strike hook with screws provided in this kit, see chart below.
4. See "Mullion Strike Hole Location" on back of sheet.

|          | Screw size & type      | QTY | Application                | 1-3/4" door | 2-1/4" door |
|----------|------------------------|-----|----------------------------|-------------|-------------|
| <b>A</b> | #10-24 x 1-1/8" PPHMS  | 4   | Surface & sex bolts        | ✓           |             |
|          | #10-24 x 1-1/2" PPHMS  | 4   | 990 trims                  | ✓           |             |
|          | #10-24 x 1-3/4" PPHMS  | 4   | Surface & sex bolts        |             | ✓           |
|          | #10-24 x 2" PPHMS      | 4   | 990 trims                  |             | ✓           |
| <b>B</b> | #10-24 x 1" PPHMS      | 2   | Surface - All metal doors  | ✓           | ✓           |
|          | #10-16 x 1-1/4" PPHSMS | 2   | Surface - Solid wood doors | ✓           | ✓           |
|          | #10-24 x 1" PPHMS      | 2   | Sex bolts                  | ✓           |             |
|          | #10-24 x 1-1/2" PPHMS  | 2   | Sex bolts                  |             | ✓           |
| <b>C</b> | #10-24 x 1" OPHMS      | 2   | Surface & sex bolts        | ✓           |             |
|          | #10-24 x 1-1/2" OPHMS  | 2   | Surface & sex bolts        |             | ✓           |
| <b>D</b> | 1/4"-20 x 1" OPHMS     | 2   | Surface & sex bolts        | ✓           |             |
|          | 1/4"-20 x 1-1/2" OPHMS | 2   | Surface & sex bolts        |             | ✓           |

## 98/99-F (499F Strike)



## XP98-F/XP99-F (954 Strike)



For 22 series device, see back side of sheet



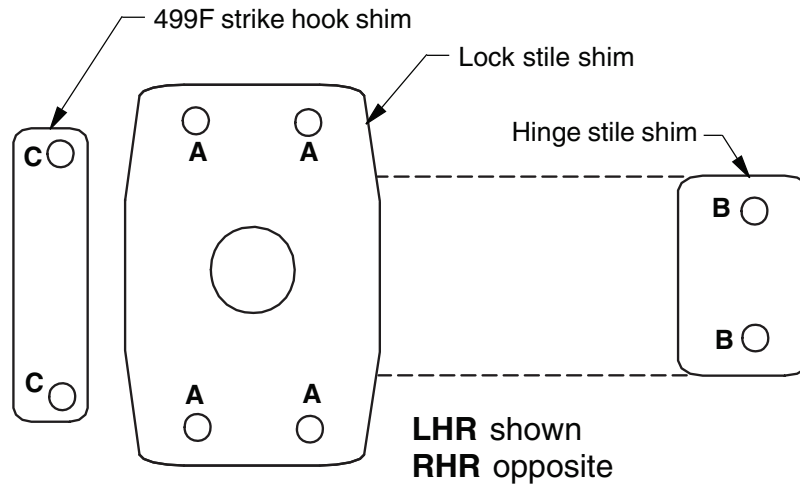
Customer Service

1-877-671-7011

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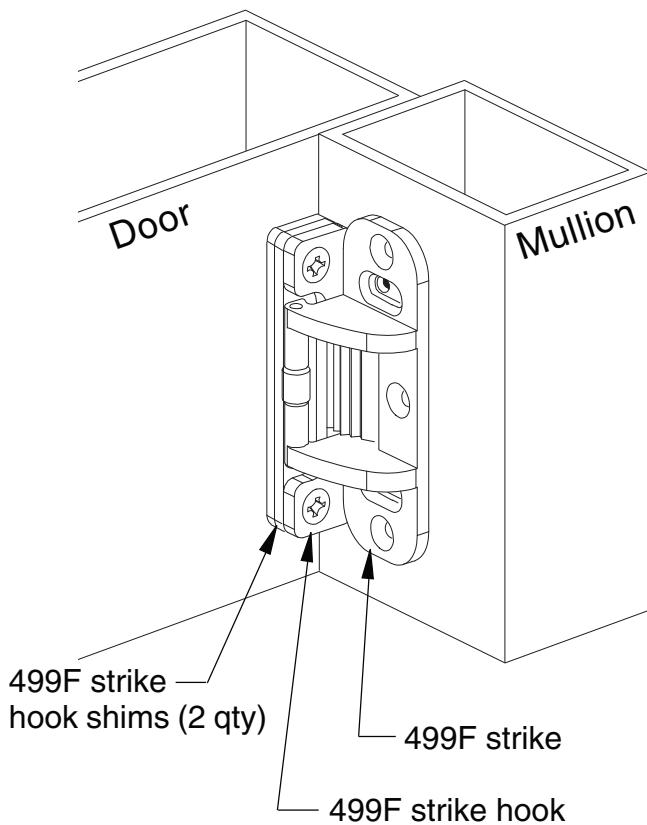
## 22-F (499F Strike)



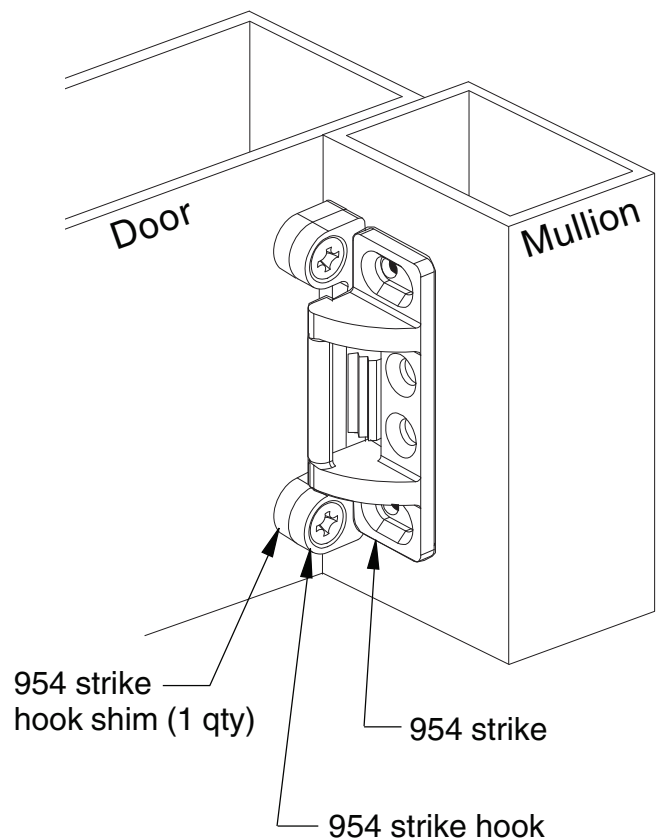
## Mullion Strike Hole Location

**Note:** Pre-drilled mounting holes in mullion will need to be relocated. Align strike hook and strike as shown below and prepare new holes.

### 499F strike



### 954 strike





941919-00

# GBK-RV Glass Bead Shims Kit

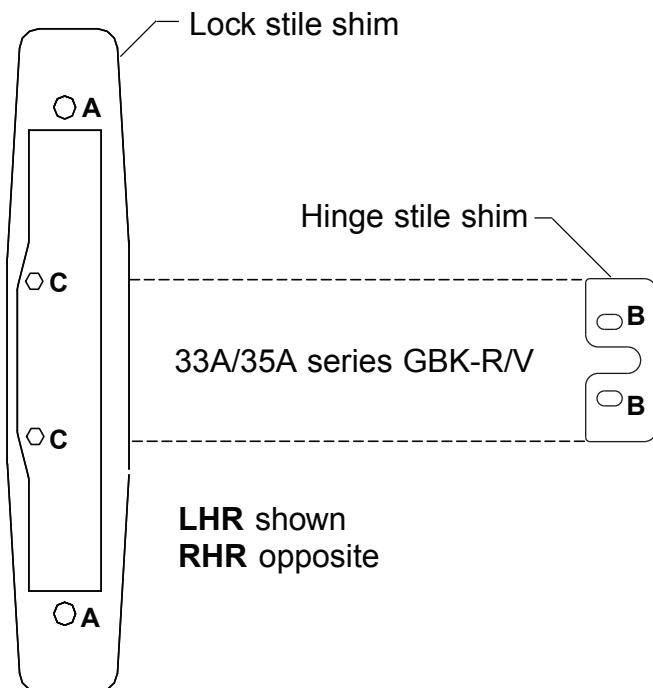
**VON DUPRIN®**

For 33A/35A Series Exit Devices

Installation Instructions

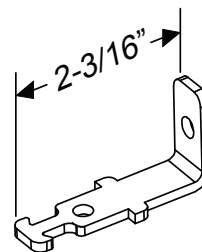
1. Prepare inside face of door per device installation instructions.
2. Insert shims between the device and door (Figure 1).  
**Note:** Shims are handed and flipped for RH or LH application.
3. Secure device with screws provided in this kit, see chart below.
4. For 33/3547A series device install rod connector extension (Figure 2).
5. For 33/3527A series device install rod guide shims (Figure 3).

| Screw size & type |                        | Application                | 1-3/4" door | 2-1/4" door |
|-------------------|------------------------|----------------------------|-------------|-------------|
| <b>A</b>          | 1/4"-20 x 1-1/4" FPHMS | Surface, sex bolts, & trim | ●           |             |
|                   | 1/4"-20 x 1-3/4" FPHMS | Surface, sex bolts, & trim |             | ●           |
| <b>B</b>          | #10-24 x 1" PPHMS      | Surface & sex bolts        | ●           |             |
|                   | #10-24 x 1-1/2" PPHMS  | Sex bolts                  |             | ●           |
| <b>C</b>          | #10-24 x 1-1/8" PPHMS  | Rim center case            | ●           | ●           |



**Figure 1**

Rod connector extension  
for 33/3547A

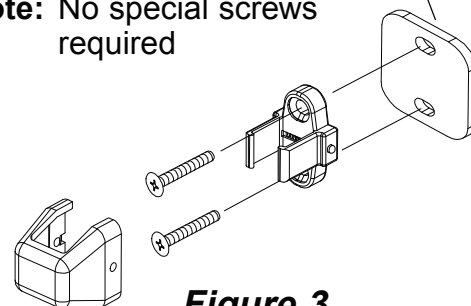


**Figure 2**

**IMPORTANT!**  
Rod connector  
must be installed in  
orientation shown

Rod guide shim for 33/3527A

**Note:** No special screws  
required



**Figure 3**