INSTALLATION INSTRUCTIONS FOR F90KR & 90KR REMOVABLE MULLION

Drawing # 100225

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For device installation videos, scan code below or
go to detex.com
<table>
<thead>
<tr>
<th>Item</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100222-5</td>
<td>Top fitting subassy, 90KRE</td>
</tr>
<tr>
<td>1</td>
<td>100222-1</td>
<td>Top fitting subassy, 90KR</td>
</tr>
<tr>
<td>1</td>
<td>100222</td>
<td>Top fitting subassy, F90KR</td>
</tr>
<tr>
<td>2</td>
<td>ECL-445K-7</td>
<td>Rim Cylinder (sold separately)</td>
</tr>
<tr>
<td>3</td>
<td>100215K</td>
<td>Cylinder housing</td>
</tr>
<tr>
<td>4</td>
<td>100213-1</td>
<td>Post, Mullion, F90KR / 90KR, 7 ft</td>
</tr>
<tr>
<td>4</td>
<td>100213</td>
<td>Post, Mullion, F90KR / 90KR, 8 ft</td>
</tr>
<tr>
<td>4</td>
<td>100213-2</td>
<td>Post, Mullion, F90KR / 90KR, 10 ft</td>
</tr>
<tr>
<td>4</td>
<td>106397-1</td>
<td>Post, Mullion Subassy, 90KRE, 7 ft</td>
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<tr>
<td>4</td>
<td>106397-2</td>
<td>Post, Mullion Subassy, 90KRE, 8 ft</td>
</tr>
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<td>4</td>
<td>106397-3</td>
<td>Post, Mullion Subassy, 90KRE, 10 ft</td>
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<tr>
<td>5</td>
<td>100221</td>
<td>Rim cylinder back plate (in hardware kit)</td>
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<tr>
<td>6</td>
<td>101593-1</td>
<td>Spacer, Mullion, 1/2&quot; long (in hardware kit)</td>
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<tr>
<td>6</td>
<td>101593-2</td>
<td>Spacer, Mullion, 5/8&quot; long (in hardware kit)</td>
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<td>7</td>
<td>100226</td>
<td>Base, Mullion (in hardware kit)</td>
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<td>8</td>
<td>100219</td>
<td>Shim, Mullion (in hardware kit)</td>
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<tr>
<td>9</td>
<td>100091</td>
<td>Strike Hook (in hardware kit)</td>
</tr>
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## Hardware List

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
<th>P/N</th>
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<tbody>
<tr>
<td>8-32 x 3/8&quot; PFH</td>
<td>P/N: 101006</td>
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<tr>
<td>10-24 x 5/8&quot; PFHUMS</td>
<td>P/N 100112</td>
<td></td>
</tr>
<tr>
<td>5/16-18 x 5/8&quot; PFHMS</td>
<td>P/N 100224</td>
<td></td>
</tr>
<tr>
<td>5/16-18 x 1-1/2&quot; PFHMS</td>
<td>P/N 101147</td>
<td></td>
</tr>
<tr>
<td>5/16-18 x 2&quot; PFHMS</td>
<td>P/N 101143</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; x 3&quot; Wedge Anchor</td>
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<tr>
<td></td>
<td>P/N 100217</td>
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## Tools Required:

- **Power Drill**
- **Safety Glasses**
- **Allen Wrench (1/8")**
- **Level**
- **Pencil**
- **Phillips Screw Drivers (#2 and #3)**
- **Hammer**
- **Combination Square**
- **Tap Wrenches (5/16-18)**
- **Tape Measure**
- **Center Punch**
Wide Stile (Surface Strike) 99:
Minimum door stile 4-1/2" (114 mm)
Template drawings provide door and frame structural and dimensional specifications for door and frame preparation.

Narrow Stile 98:
Minimum door stile 2" (51 mm)

Doors and frames with walls having a structural thickness (metal skin plus reinforcement, or solid wood) to engage less than (3) full screw threads, are considered unreinforced for hardware.
Unreinforced Doors: Use Sex Nuts and Bolts.
Unreinforced Frames: Use Blind Rivet Nuts (see sketch). Fasteners for unreinforced openings are not supplied by Detex.

Reinforced door or frame engages at least (3) screw threads.

NOTE: 750mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 36" DEVICE
1000mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 48" DEVICE
THE SAFETY FEATURES OF THIS PRODUCT ARE ESSENTIAL TO IT'S COMPLIANCE WITH EN 1125.
NO MODIFICATION OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.
**STEP 1:** Install foam tape
Remove backing & adhere the foam tape (p/n 101758-1) to the inside back wall of the post as shown.

**STEP 2:** Mark the center of door opening at the soffit and the floor

**STEP 3:** Mark the Top Fitting hole locations.
Due to the various door stop widths, different mounting hole locations are provided. See below.

Close the doors and place the Top Fitting against the doors and line up the centering notch with the marks made in step 2. Mark and drill the soffit at four (4) hole locations with #F bit. Tap the four (4) holes with 5/16"-18 tap.

If top fitting overhangs the stop (example C), spacers (1/2" long p/n 101593-1 & 5/8" long p/n 101593-2) are provided in the hardware kit.

**STEP 4:** Cut cylinder tailpiece to correct length (sold separately)

Cut tailpiece to dimension shown above.
**STEP 5:** Install cylinder housing assembly

- Engage tailpiece into cam. Tailpiece should NOT bottom out in cam.
- RIM CYLINDER BACK PLATE provided in hardware kit (discard plate provided with cylinder).
- Or
- DEADLOCK (F90KR only)

- Insert assembled cylinder housing into top fitting. Ensure that tailpiece goes into the cam.
- If latch rotates, the tailpiece is too long (see step 4).
- Install the four (4) screws to secure the cylinder housing.
- Insert key and rotate 1/2 turn. The latch should fully retract.
- Turn the key and remove. The latch should now fully extend.
- There should be no binding of key or latch.

**STEP 6:** Install assembled Top Fitting

- SPACERS (in hardware kit)
- Or

The view shown is for a NARROW frame stop. Wider frame stops will not use the spacers and will use four (4) of the shorter 5/16" screws.

**STEP 7:** Tube fitment / cut tube to length (if required)

- H (Height of opening) - 1 3/4" = C (Cut length of Mullion)
- FINISHED FLOOR

**DO NOT CUT THIS END**

**TOP END**

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**STEP 8:** Mark Base Fitting location & install

If there is a threshold, be sure to cut the threshold so that the base fitting is resting on the non-flammable flooring.

Place the mullion tube into the base fitting and pivot the top upward into place.
Close the doors. Slide the base fitting at the floor and butt the mullion to the doors.
Align the centering notches on the fitting with the mark that was made in Step 2.
Mark the location of the base fitting. Carefully remove the mullion.
Mark and drill the floor at the two (2) hole locations. See anchor for drill size.
Install base fitting using anchors in hardware kit.
**STEP 9: Check for tube fitment**

Replace the mullion into the base fitting and pivot the top upward into place. The mullion should snap firmly into place.

If there is too much gap (1/8" or more between the cut out mullion tubing and the cylinder housing), install the shims provided to raise the sill fitting off of the floor.

Ensure that the mullion is easily removable when the key is turned in its cylinder.

Attach the strikes to the side of the mullion according to the template provided with the locking device to be used.

Attach one strike hook per door leaf according to the template provided with the locking device to be used. Ensure that the strike hook engages the strike without interference to the latching mechanism. Open and close the door. The strike hook should not cause friction or bind during the opening and closing cycles of the door.