Keyed Removable Mullion

Read All Warnings Before Starting Installation!

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GENERAL INFORMATION

These instructions are presented in step-by-step sequence as an aid to preparing for device mounting.

Please review the first two pages carefully which will help identify the hardware and define the terminology used throughout.

SPECIFICATIONS

Fire rated for 8’ openings maximum.

Read All Warnings Before Starting Installation!

To insure mullion is locked, remove key, reinstall and pull mullion.

TOOLS NEEDED

These are the necessary tools for installing an EPT into a factory-prepped door and frame.

- Block wood
- 1/16” Allen wrench
- Center Punch
- Drill
- 11/32” Drill bit
- 13/32” Drill bit
- Phillips screwdriver
- Straight-blade screwdriver
- Hack saw
- Hammer
- Measuring tape
- 5/16” Tap
### KR9854 and KR9954 (Mullion with Keyed Removable Option) Parts

<table>
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<th>Included with KR54-F (KR Kit)</th>
<th>Not included with KR54-F (KR Kit)</th>
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<tbody>
<tr>
<td><img src="image1" alt="Locking mullion assembly" /></td>
<td><img src="image2" alt="Mullion Body" /></td>
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<tr>
<td><img src="image3" alt="Top mullion fitting" /></td>
<td><img src="image4" alt="Bottom Mullion Fitting" /></td>
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<tr>
<td>1/4-20 x 1&quot; Flat Head Socket Security Machine Screw</td>
<td><img src="image5" alt="These parts come with KR9854 only" /></td>
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<tr>
<td>8-32 x 3/8&quot; Set Screw</td>
<td>Frame Connector</td>
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<td><img src="image6" alt="Cylinder Lock Nut" /></td>
<td>Electrical Connector</td>
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<tr>
<td>Cylinder Locking Washer</td>
<td>Back Cover Plate</td>
</tr>
<tr>
<td>Fusible spacer</td>
<td>5/32&quot; Security Hex Key</td>
</tr>
<tr>
<td>5/32&quot; Security Hex Key</td>
<td>Electric Shim Plate</td>
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INSTALLATION

1 Prepare the keyed removable unit.

1.1 Position cylinder locking washer over mortise key cylinder hole.
1.2 Insert mortise key cylinder through collar and into hole.
1.3 Thread cylinder lock nut onto mortise key cylinder. **Be sure to fasten down tight.**
1.4 Position back cover plate.
1.5 Install screws. (8-32 x 1/4” undercut flat head socket machine security screw). **Do not** tighten down.

NOTE: Raise the locking pin lever to aid in the installation.

NOTE: Cylinder must be oriented as shown.

Do not tighten down.
2 Adjust and install bottom mullion fitting.

Note: If bottom mullion fitting already exists, go to Step 3.

2.1 Adjust ball plunger out until ball is compressed when fitting is engaged with mullion. Once adjusted properly, lock-tight in place.

2.2 Drill 5/8" diameter x 1 3/4" deep holes.

2.3 Install 5/16" x 18 expansion anchors.

2.4 Position bottom mullion fitting.

2.5 Install screws (5/16 - 18 x 1 3/4" flat Phillips head machine screw).

Cut threshold to allow bottom mullion fitting to sit on the floor (use bottom mullion fitting as template)

Bottom mullion fitting mounted flush against inside face of doors

Door opening (top view)
3 Size mullion.

3.1 Measure distance from frame to bottom mullion fitting.
3.2 Determine mullion length using formula and cut. Remove all burrs and sharp edges.

* Mullion length = ‘X’ less 5 11/16”
(for electric KR9854 mullion length = ‘X’ less 5 3/4”)
4 Install top mullion fitting.

4.1 Position top mullion fitting.
4.2 Mark holes.
4.3 Drill and tap frame for 5/16 - 18 screws using top mullion fitting as template.
4.4 Install screws (5/16 - 18 x 1 1/4” flat Phillips head machine screw).
4.5 Position fusible spacer.
4.6 Install screws (1/4 - 20 x 3/8” Phillips pan head machine screw).

Note: If mullion is cut between 1/16” - 1/8” too short, add top mullion fitting shim.

Top mullion fitting shim

Mounting top mullion fitting on optional frame styles:

Note: 16 Gauge reinforcement supplied by frame manufacturer

Filler block is to be supplied by frame manufacturer.
**Note:** KR9854 Electric Mullion installation only.

**Note:** Electric shim plate required for KR9854 electric mullion.

**Note:** Reinforcement for all sheet metal frames is to be supplied by frame manufacturer.

Frame connector installed through hole labeled “KR”

Wiring diagram

For stops wider than 3 1/8”
5 Attach keyed removable unit to mullion.

5.1 Position keyed removable unit onto top of mullion.
5.2 With a hammer and a block of wood, tap keyed removable unit snug against mullion.
5.3 Drill two 13/32" diameter holes using holes in unit as template.
5.4 Drill two 11/32" diameter holes.
5.5 Install sex bolts by tapping into hole with a hammer and a block of wood.
5.6 Install screws (1/4 - 20 x 1" flat head socket security machine screw).
5.7 Tighten down screws (4 places).

Keyed removable unit

This end has label

Bottom of mullion

5.3 Drill 13/32" this side only

5.4 Drill 11/32" hole this side only

5/32 Security hex key
6 Final installation and adjustment.

6.1 Install screw (8 - 32 x 3/8" set screw) until flush with face of top mullion fitting.

6.2 Check for tightness of mullion by pushing and/or pulling on mullion. To tighten, remove mullion (see Step 7) and rotate set screw out 1/2 turn. Repeat this procedure until desired tightness is reached.

WARNING

If set screw is adjusted out too far, the bolt may not latch completely allowing the mullion to fall out when impacted.

7 Operation.

Rotate key 180° clockwise to unlock and remove mullion