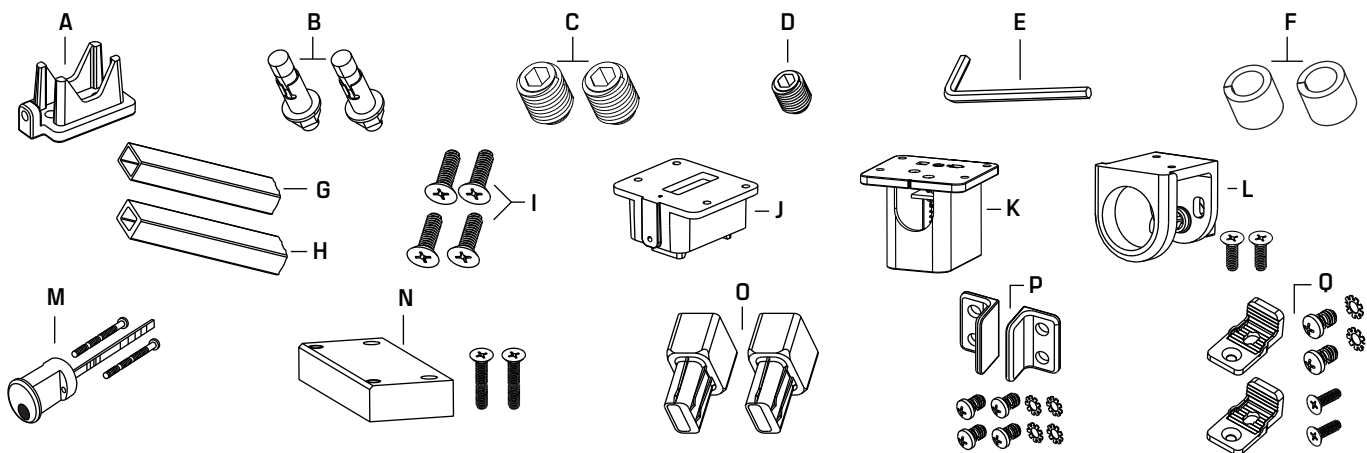


822 Removable Mullion Installation Instructions

OVERVIEW

COMPONENTS CHECKLIST

A Bottom fitting	F(2x) Spacers (HC units only)	K Key-removable head cap (KR units only)	O(2x) Mullion adapters (HC units only)
B(2x) Anchors	G 1/8" wall mullion (non-HC units only)	L Cylinder mount & screws (KR units only)	P(2x) Mullion stabilizers (with screws & lock washers (FL units only)
C(2x) Set screws 5/16 - 18 UNC x 5/8" long	H 5/16" wall mullion (HC units only)	M Rim cylinder and screws (provided by others - KR units only)	Q(2x) Interlock strike hook kits (HC and FL units only) Reference appropriate device instructions for installation information.
D HC adapter set screw 1/4 - 20 UNC x 3/8" long	I(4x) Head cap mounting screw 1/4 - 20 UNC x 3/4" long	N Mullion cap spacer & screws (If ordered for frame stop widths less than 3.5")	
E 5/32" hex wrench	J Standard head cap (non-KR units only)		



BEFORE YOU BEGIN

Doors and finished floor must be properly installed prior to mullion installation. Install exit hardware **AFTER** mullion installation.

OVERVIEW

These instructions cover 822 removable mullion products. Make sure that you know what type of mullion is being installed:

Product nomenclature	Key-removable (KR)	Hurricane-rated (HC)	Fire-rated (FL)
822	-	-	-
KR 822	Yes	-	-
HC 822	-	Yes	-
HCKR 822	Yes	Yes	-
FL 822	-	-	Yes
FLKR 822	Yes	-	Yes
FLHC 822	-	Yes	Yes
FLHCKR 822	Yes	Yes	Yes

1

ASSEMBLING CYLINDER INTO HEAD CAP (KR units only)

NOTE: For non-KR mullions, begin with step 2.

- 1.1 If necessary, remove cylinder mount from head cap assembly.
- 1.2 With key removed and cam resting against stop, install rim cylinder through cylinder mount. Insert tailpiece into cross-hair of cam. See **Figure 1**.

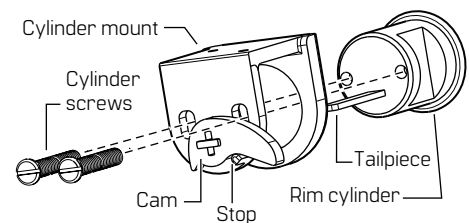


Figure 1 Assembling cylinder mount

- 1.3 Check assembled dimensions and make adjustments as needed. See **Figure 2**.
- 1.4 Install cylinder screws and turn key to move cam as needed.

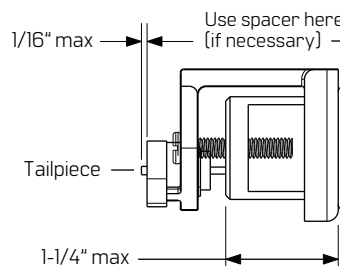


Figure 2 Max. dimensions for cylinder assembly

- 1.5 With key removed, insert cylinder assembly into head cap assembly. See **Figure 3**.

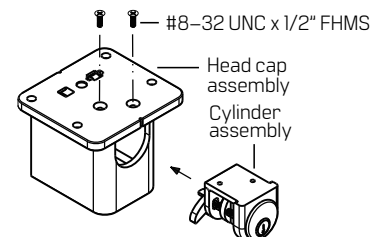


Figure 3 Installing cylinder assembly

- 1.6 Attach cylinder assembly with two screws.

CHECK FOR PROPER OPERATION:
Turning key should move latch freely.

2 MOUNTING BOTTOM FITTING

NOTE: If threshold is installed in opening, it must be cut to allow bottom fitting to attach directly to finished floor.

- Center bottom fitting on floor between and flush with closed doors. See **Figure 4**.
- Mark center of each mounting hole.
- Drill two holes in floor, 3/8" diameter by 1-3/4" deep.

For HC mullions:

- Drill two holes in floor, 1/4" diameter by 2" deep.
- Place 3/8" spacer into holes of bottom fitting.
- Fasten bottom fitting in place with anchors provided.

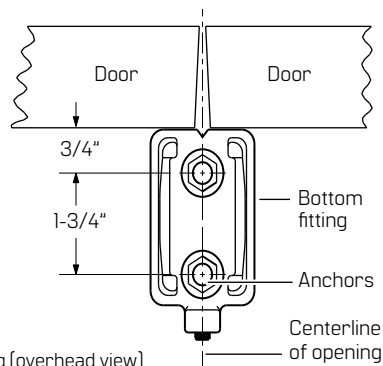


Figure 4 Installing bottom fitting (overhead view)

3 PREPARING FRAME FOR HEAD CAP

- Center head cap on frame between and flush with closed doors. See **Figure 5**.
- Mark center of each mounting hole.

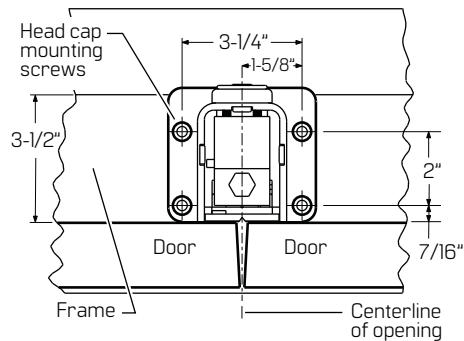


Figure 5 Installing head cap (underside view)

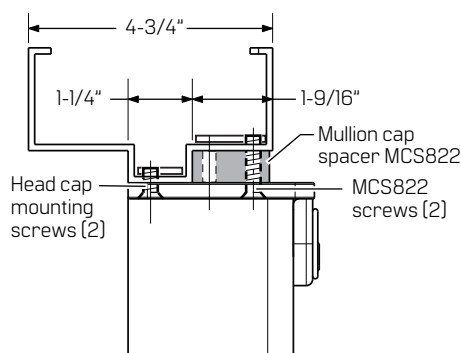


Figure 6 Mullion cap spacer with 1-1/4" frame stop

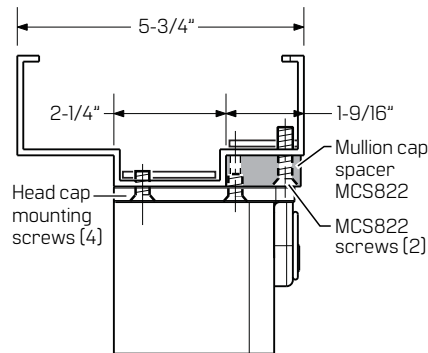


Figure 7 Mullion cap spacer with 2-1/4" frame stop

NOTE: Minimum recommended width of frame stop is 3-1/2". For smaller frame stop widths, mullion cap spacer must be used. See **Figure 6** and **Figure 7**.

- Drill (size #7) and tap holes for 1/4-20 UNC machine screws.
- For KR units only:** Attach head cap to frame with four screws provided. For non-KR units, continue to next step without attaching head cap to frame.

4 CUTTING MULLION TUBE (if necessary)

NOTE: Proper mullion tube length is critical to mullion performance.

- Measure the distance 'H' as shown in **Figure 8**.

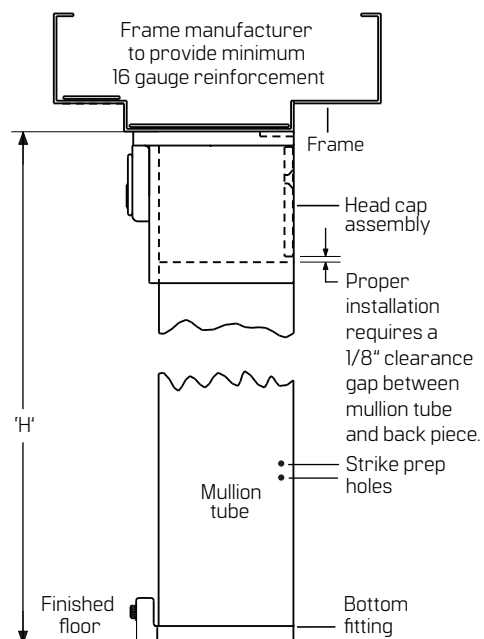


Figure 8 Determining length of mullion tube, KR unit shown

- Determine appropriate length 'L' of mullion tube using table.

Table 1 Determining mullion tube length

Mullion type	Tube length 'L' (inches)
822,FL822	$L = H - 1-3/8$
KR822,FLKR822	$L = H - 3-1/4$
HC822,FLHC822	$L = H - 5-7/8$
HCKR822,FLHCKR822	$L = H - 7-3/4$

NOTE: Length of HC tubes is 4-1/2" shorter than non-HC tubes due to need for adapters at each end and **Figure 7**.

- Measure mullion tube and compare measurement to calculated 'L'. If tube needs to be cut, mark cut line and extend it around all faces of tube. If tube is already prepared for strikes, be sure to make marks at top end, farthest from the strike holes. See **Figure 9**.
- Using marks for guidance, cut tube squarely.
- Apply rust protection, if possible, to cut surface of tube.

NOTE: For proper installation, ensure cut is square around entire tube.

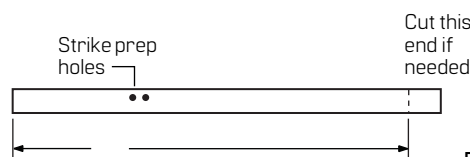


Figure 9 Cutting mullion tube

5 INSTALLING ADAPTERS INTO TUBE (HC units only)

NOTE: Proper mullion tube length is critical to mullion performance.

- Drill and tap a hole into one of long faces at top end of tube. See **Figure 11**.
- Insert an adapter into bottom end of tube and drive it in until flush using a block of wood and a hammer. See **Figure 10**.



CAUTION!
DO NOT strike adapter directly with hammer. Damage to product may occur. See **Figure 10**.

NOTE: If weld bead inside tube interferes with ribs on adapter, rotate adapter 180° and re-insert.

- Repeat previous step to install second adapter into top end of tube.
- Install 1/4-20 UNC set screw for top adapter and tighten until secure.

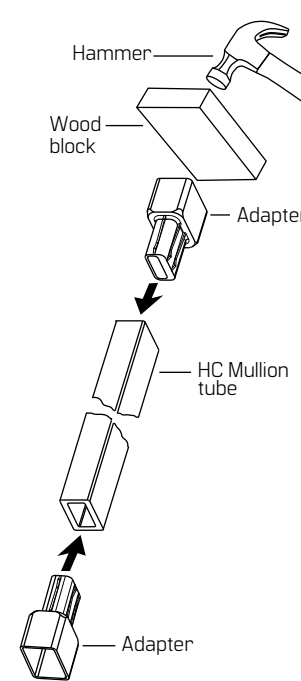


Figure 10 Driving in adapters for HC units

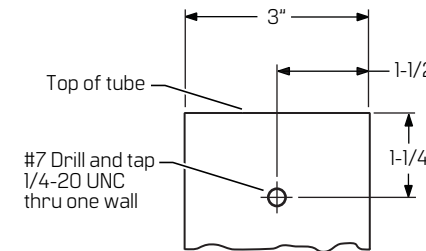


Figure 11 Drilling and tapping set screw hole

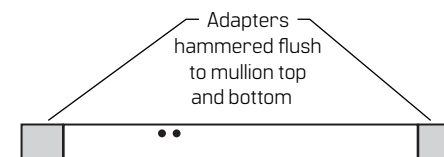


Figure 12 HC mullion assembled (side view)

6 INSTALLING MULLION

For all non-KR units:

- Insert head cap into the top of tube. See **Figure 13**.
- Place bottom of tube onto bottom fitting and pivot tube up into vertical position.
- Attach head cap to frame with four screws provided.
- Tighten 5/16-18 UNC set screws on head cap and bottom fitting to secure mullion in place. See **Figure 14**.

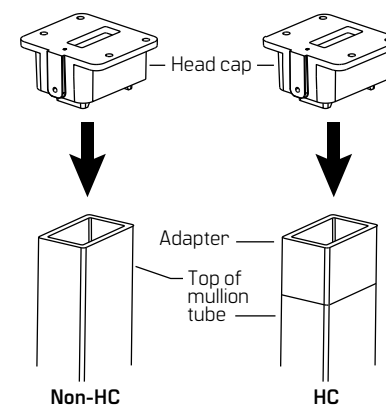


Figure 13 Placing head cap onto top of mullion (non-KR units only)

For all-KR units:

- Place bottom of tube onto bottom fitting and pivot tube up toward vertical position.
- Engage top of tube into head cap latch. It should click into place when secure.
- Install and adjust 5/16-18 UNC set screw for bottom fitting, leaving it loose enough for mullion to be removed without turning screw. See **Figure 14**.
- Test KR function. Turning key clockwise should allow tube to release.

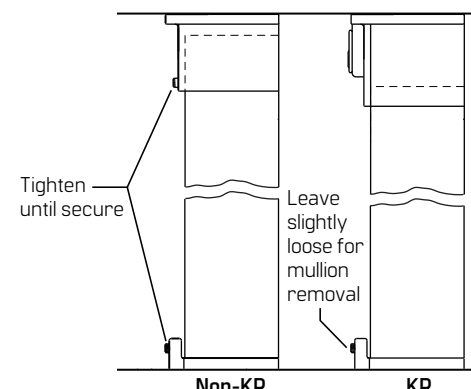


Figure 14 Set screws

7 INSTALLING MULLION STABILIZERS (required for FL units)

- Mark holes for stabilizers as shown in **Figure 15**.
- Drill (size #7) and tap holes for 1/4-20 UNC machine screws.
- Attach one stabilizer to each door leaf using screws and lock washers provided.

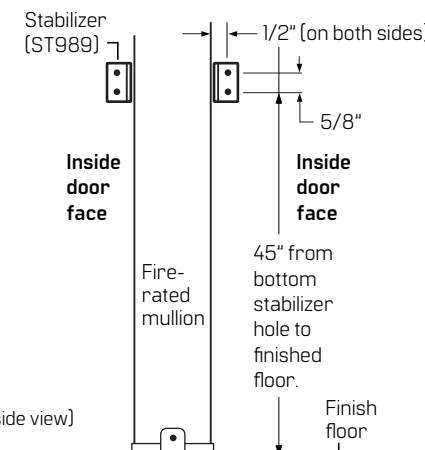


Figure 15 HC mullion assembled (side view)



Removable Mullions

Scan for product details and downloads.
Call 1-800-392-5209 or visit
<https://dhwsupport.dormakaba.com/hc/en-us>
for assistance and warranty information