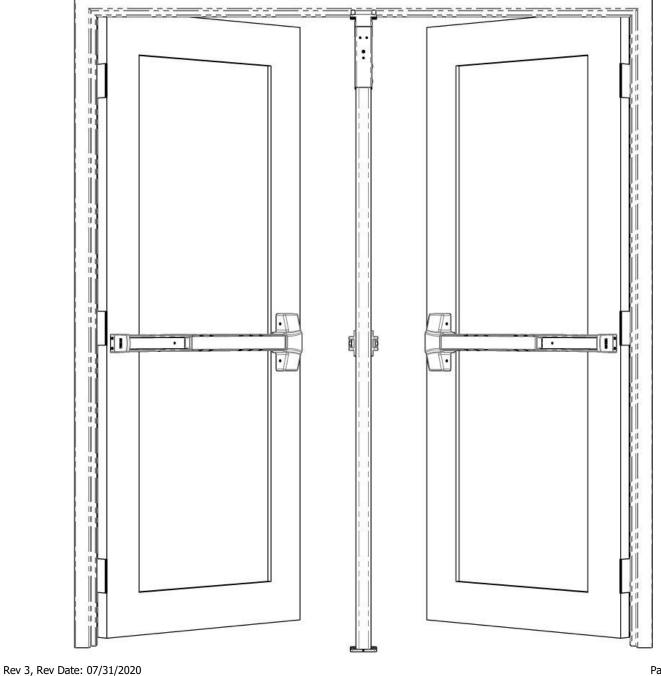


4900 Series Removable Mullions Installation Instructions I-ED01037

DEVICES COVERED IN THIS DOCUMENT:

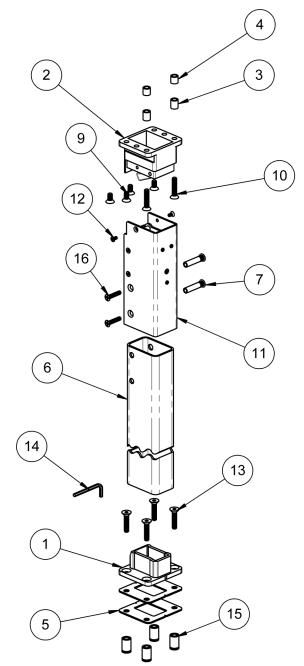
• 7' (84") Non-Keyed Removable Mullion Primer Coat USP	• 7' (84") Keyed Removable Mullion Primer Coat USP
• 8' (96") Non-Keyed Removable Mullion Primer Coat USP	• 8' (96") Keyed Removable Mullion Primer Coat USP
• 10' (120") Non-Keyed Removable Mullion Primer Coat USP	• 10' (120") Keyed Removable Mullion Primer Coat USP
• 7' (84") Non-Keyed Removable Mullion Fire Rated Primer Coat USP	• 7' (84") Keyed Removable Mullion Fire Rated Primer Coat USP
 8' (96") Non-Keyed Removable Mullion Fire Rated Primer Coat USP 	• 8' (96") Keyed Removable Mullion Fire Rated Primer Coat USP



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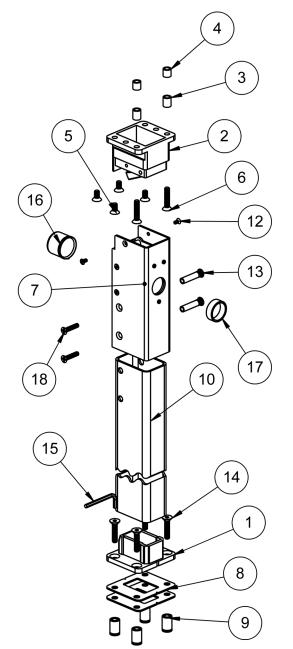
Non-Keyed Removable Mullion (4900U)



ITEM NO.	QTY.	DESCRIPTION
1	1	Mullion Bottom Bracket
2	1	Mullion Top Bracket Assembly
3	2	Top Bracket Shims (5/8in long) for 5/8in stop
4	2	Top Bracket Shims (1/2in long) for 1/2in stop
5	2	Bottom Bracket Shim
6	1	Mullion Post
7	2	Sleeve Nut, 1/4"-20 X 1 5/8"
9	4	5/16"-18 x 5/8" Flat Phillips Head Cap Machine Screw
10	2	5/16"-18 x 1-1/2" Flat Phillips Head Cap Machine Screw
11	1	Top Fitting of Mullion Tube Assembly
12	2	#10-24 x 3/8" Flat Phillips Head Cap Machine Screw
13	4	5/16"-18 x 1-1/2" Flat Socket Head Cap Machine Screw
14	1	3/16" Hex Wrench
15	4	Mullion Bottom Bracket Anchor
16	2	1/4"-20 x 1-1/4" Flat Phillips Head Machine Screw

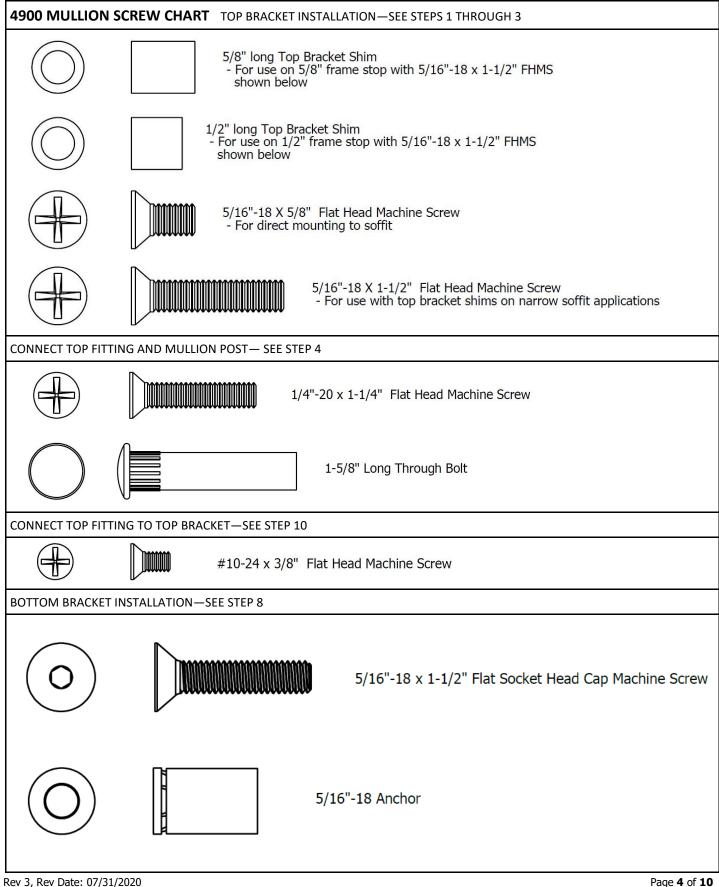


Keyed Removable Mullion (4900X)



ITEM NO.	QTY.	DESCRIPTION
1	1	Mullion Bottom Bracket
2	1	Mullion Top Bracket Assembly
3	2	Top Bracket Shims (5/8in long) for 5/8in stop
4	2	Top Bracket Shims (1/2in long) for 1/2in stop
5	4	5/16"-18 x 5/8" Flat Phillips Head Cap Machine Screw
6	2	5/16"-18 x 1-1/2" Flat Phillips Head Cap Machine Screw
7	1	Top Fitting of Mullion Tube Assembly
8	2	Bottom Bracket Shim
9	4	Mullion Bottom Bracket Anchor
10	1	Mullion Post
12	2	#10-24 x 3/8" Flat Phillips Head Cap Machine Screw
13	2	Sleeve Nut, 1/4"-20 X 1 5/8"
14	4	5/16"-18 x 1-1/2" Flat Socket Head Cap Machine Screw
15	1	3/16" Hex Wrench
16	1	Cylinder Retaining Cup Assembly
17	1	Cylinder Collar - 12mm
18	2	1/4"-20 x 1-1/4" Flat Phillips Head Machine Screw

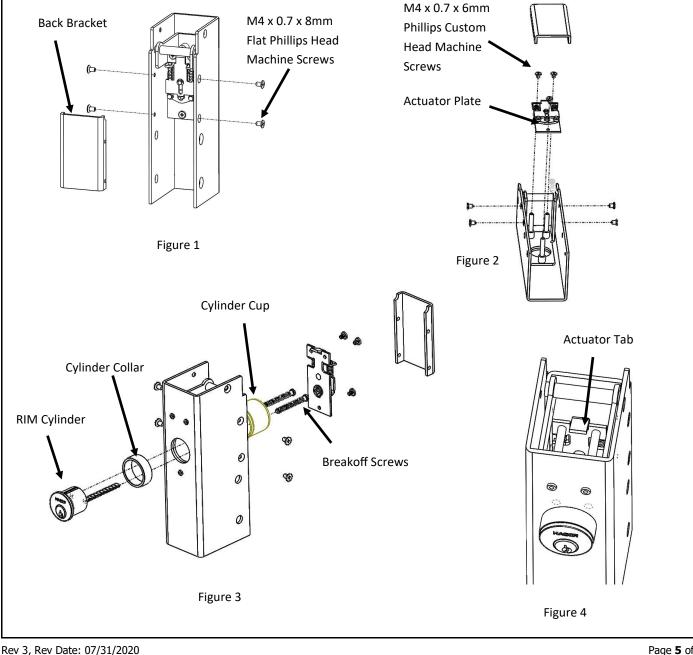






CYLINDER INSTALLATION: KEYED REMOVABLE MULLIONS (4900X) ONLY

- Remove the four M4 x 0.7 x 8mm Flat Phillips Head Machine Screws that hold the Back Bracket onto the Top Fitting. Remove the Back Bracket. (Figure 1) Α.
- Remove the three M4 x 0.7 x 6mm Phillips Custom Head Machine Screws that hold the Actuator Plate onto the Top Fitting. Note: If replacements screws are needed, M4 x 0.7 x 6mm Pan Phillips Head Screws are an acceptable alternative. (Figure 2) Β.
- C. Slide Cylinder Collar onto RIM Cylinder body. (Figure 3)
- Align the Cylinder Tailpiece with the Cylinder Cup Tailpiece Guide Housing. Slide the Cylinder Cup over the RIM Cylinder. Install the Breakoff Screws that came with the RIM Cylinder. Break off the screws to the appropriate length to ensure that the Cylinder Cup tightly holds the RIM Cylinder to the Top Fitting. Be careful not to overtightened the screws to the point that they restrict RIM Cylinder Operation. (Figure 3) D.
- Reinstall the Actuator Plate making sure the RIM Cylinder Tailpiece mates up with the Hub on the Actuator Plate. Reinstall the three M4 x 0.7 x 6mm Phillips Custom Head Machine Screws to secure the actuator plate. (Figure 2) Ε.
- Reinstall the Back Bracket by reinstalling the four M4 x 0.7 x 8mm Flat Phillips Head Machine Screws. (Figure 1) F.
- Ensure proper operation. Turn the Key in the RIM Cylinder. It should rotate smoothly and when the key is turned in either direction the Actuator Tab on the Top Fitting should raise up. (Figure 4) G.

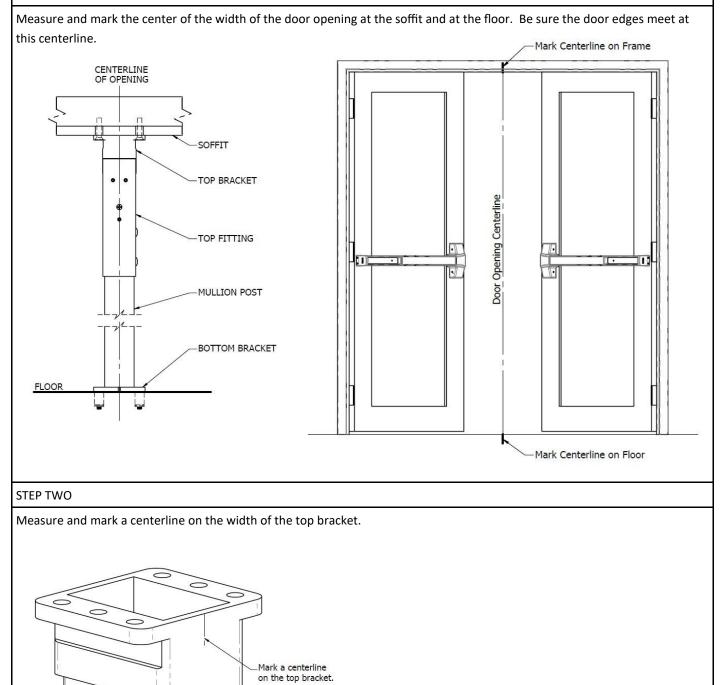




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STEP ONE

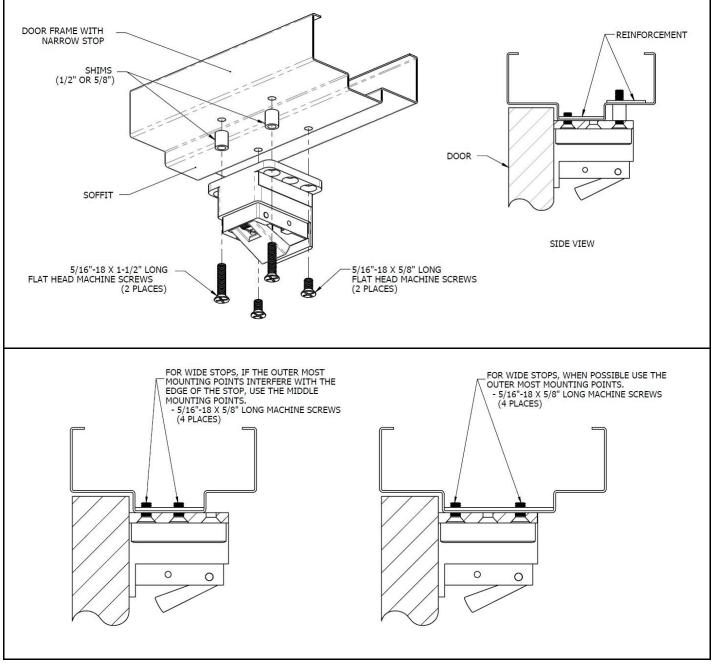




STEP THREE

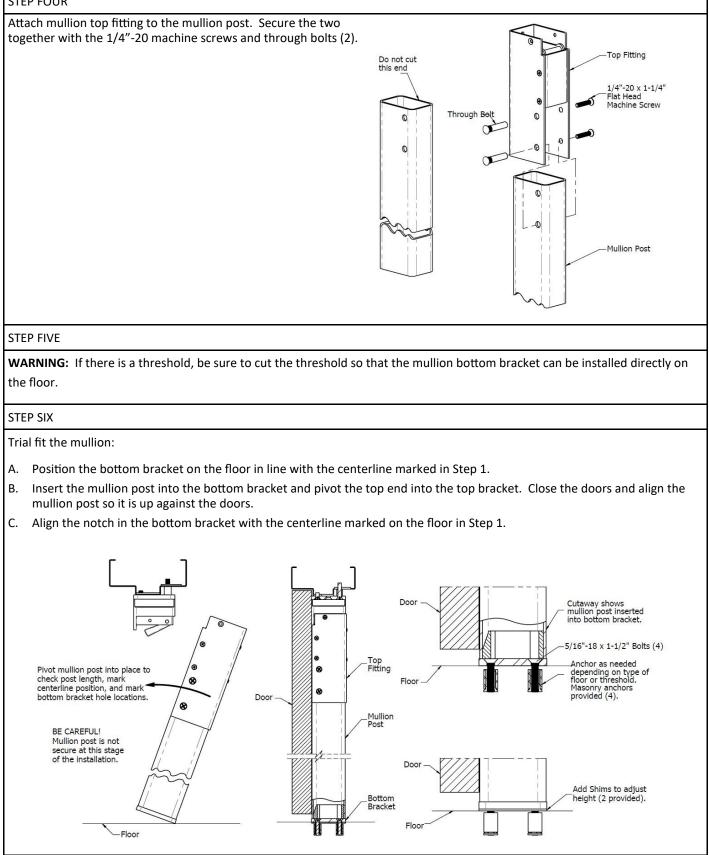
Align, mark hole locations, and install top bracket:

- A. Align the mark from Step 2 with centerline marked in Step 1.
- B. Close the doors and butt the top bracket up to the face of the door.
- C. Mark the four hole locations, dependent on your frame construction (see figures below)
- D. Drill and tap the soffit at the four hole locations for the 5/16"-18 machine screws.
- E. A standard door frame or narrow stop frame will require the use of cylindrical shims, both 1/2" (13mm) and 5/8" (16mm) shims have been included.
- F. Refer to the illustration that matches your application (narrow or wide stop) and install the top bracket using the 5/16"-18 machine screws and shims (if needed).





STEP FOUR

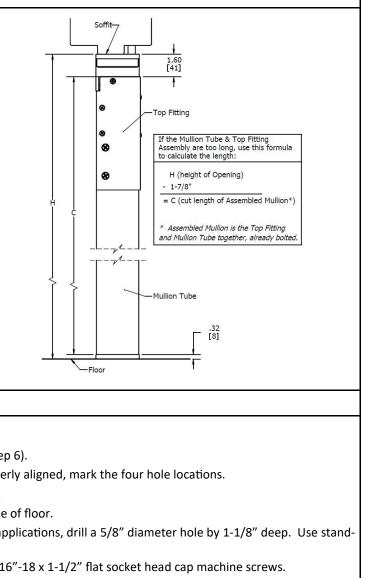


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STEP SEVEN

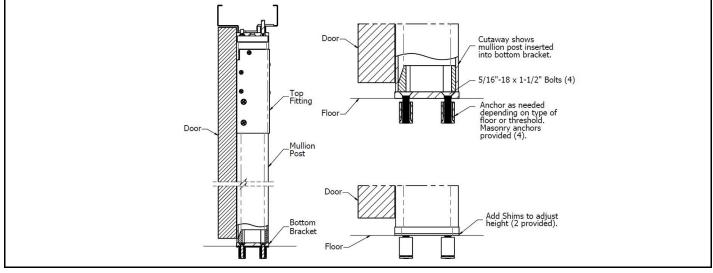
If the mullion post/top fitting assembly fits, skip to the next step. If it is too long and will not fit into the top bracket, use the formula shown to the right to cut the mullion to the proper length. Take the height of the opening, which is from the soffit face to the floor, and subtract 1-7/8" (48mm). This will be the cut length of the mullion assembly. Be sure to cut from the **bottom** end of the mullion post. The top end will have the fitting attached from Step 4.



STEP EIGHT

Align, mark hole locations, and install bottom bracket.

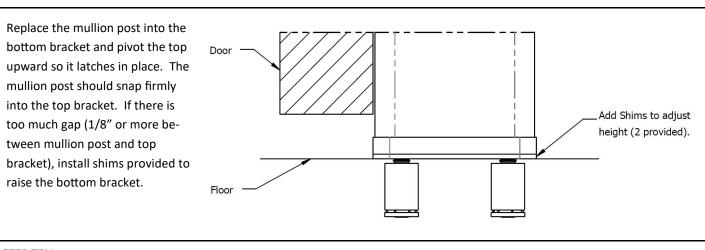
- A. If the mullion post was removed, reinstall and align (see step 6).
- Once the mullion post and bottom bracket have been properly aligned, mark the four hole locations. Β.
- C. Carefully remove the mullion post and the bottom bracket.
- D. Drill and prepare the mounting holes as needed for the type of floor.
- If using the provided machine screw anchors for masonry applications, drill a 5/8" diameter hole by 1-1/8" deep. Use stand-Ε. ard practices for installing and securing the anchor.
- Secure the bottom bracket to the floor using four of the 5/16"-18 x 1-1/2" flat socket head cap machine screws. F.





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STEP NINE



STEP TEN

The Non-Keyed Removable Mullion is removed by inserting a Phillips screwdriver into the crosshair spindle located on the face of the top fitting. The Keyed Removable Mullion is removed by turning the key of the cylinder located on the face of the top fitting. Rotate the spindle or turn the key to ensure the mullion is easily removed. Reinstall the mullion to make sure it smoothly snaps into place. Install the two #10-24 x 3/8" machine screws to secure the top fitting/mullion post to the top bracket.

