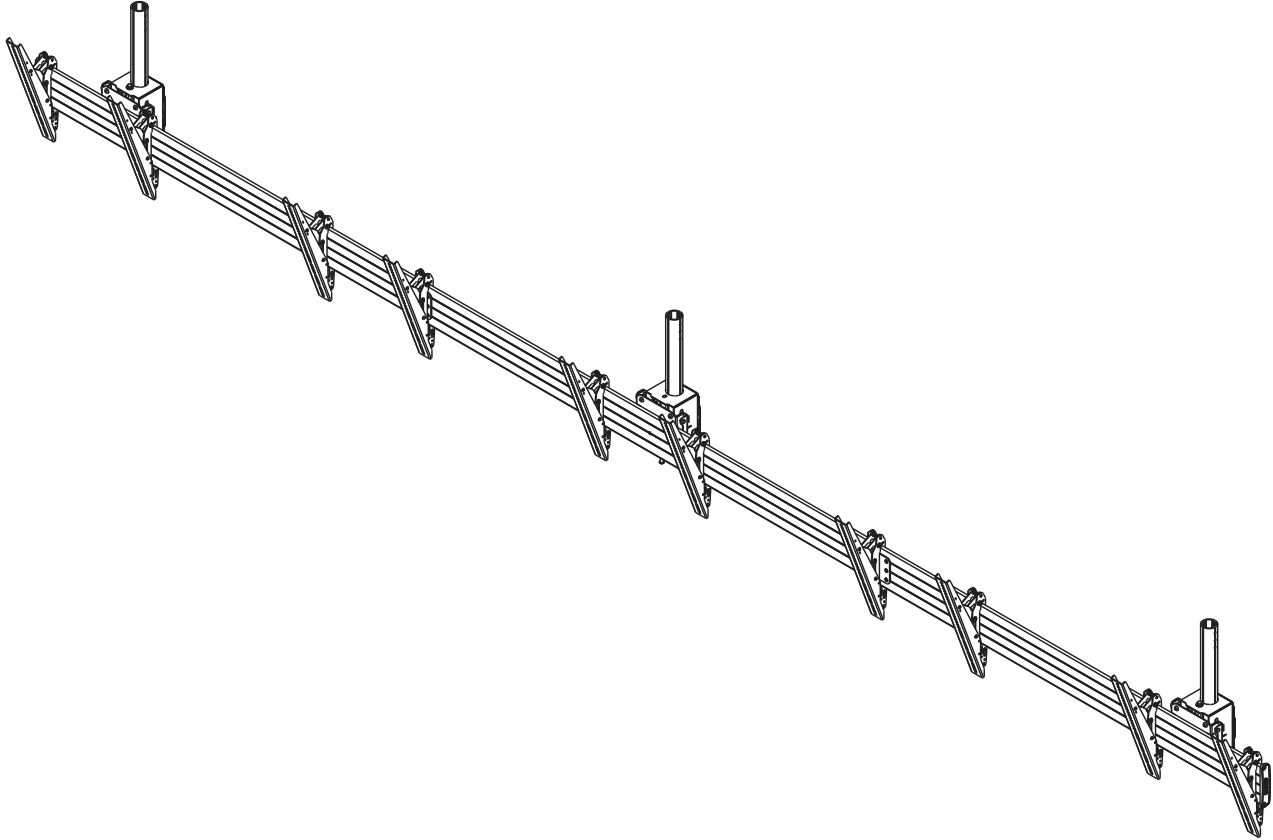

INSTALLATION INSTRUCTIONS



Ceiling-Mounted Menu Boards

DISCLAIMER

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DEFINITIONS

MOUNTING SYSTEM: A MOUNTING SYSTEM is the primary Chief product to which an accessory and/or component is attached.

ACCESSORY: AN ACCESSORY is the secondary Chief product which is attached to a primary Chief product, and may have a component attached or setting on it.

COMPONENT: A COMPONENT is an audiovisual item designed to be attached or resting on an accessory or mounting system such as a video camera, CPU, screen, display, projector, etc.



WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.



CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.



IMPORTANT SAFETY INSTRUCTIONS



WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all mounting systems are properly assembled and installed using the instructions provided.



WARNING: Failure to provide adequate structural strength for this mounting system can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this mounting system is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the mounting system.



WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components attached to mounting system does not exceed maximum weights listed in Table 1.

Table 1: Weight Capacity

MODEL	Max Weight Allowed for <u>EACH</u> Display	Max Weight Capacity of Mounting System
LCM5X1U	125 lbs (56.7 kg)	625 lbs (283.5 kg)

LCM5X1U				
125 lbs (56.7 kg)	125 lbs (56.7 kg)	125 lbs (56.7 kg)	125 lbs (56.7 kg)	125 lbs (56.7 kg)



WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.



WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.



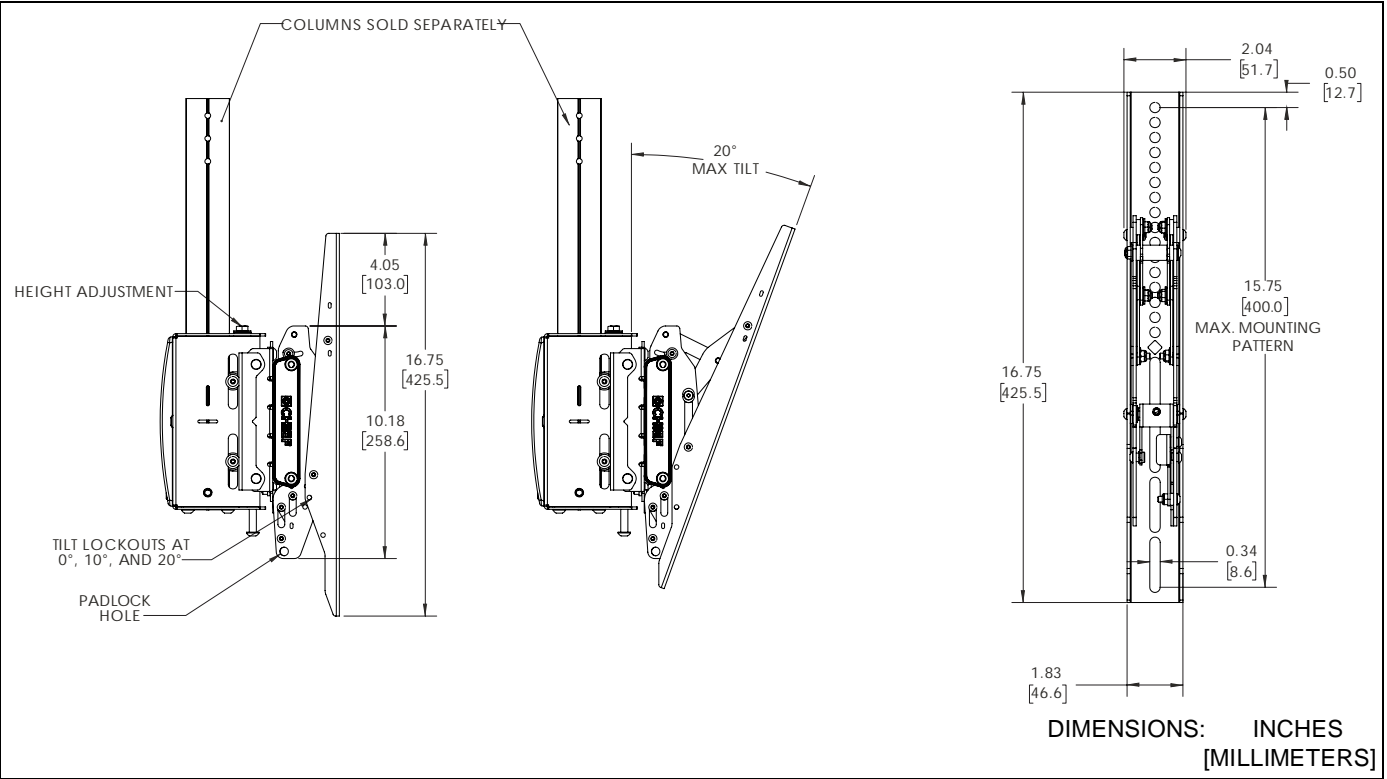
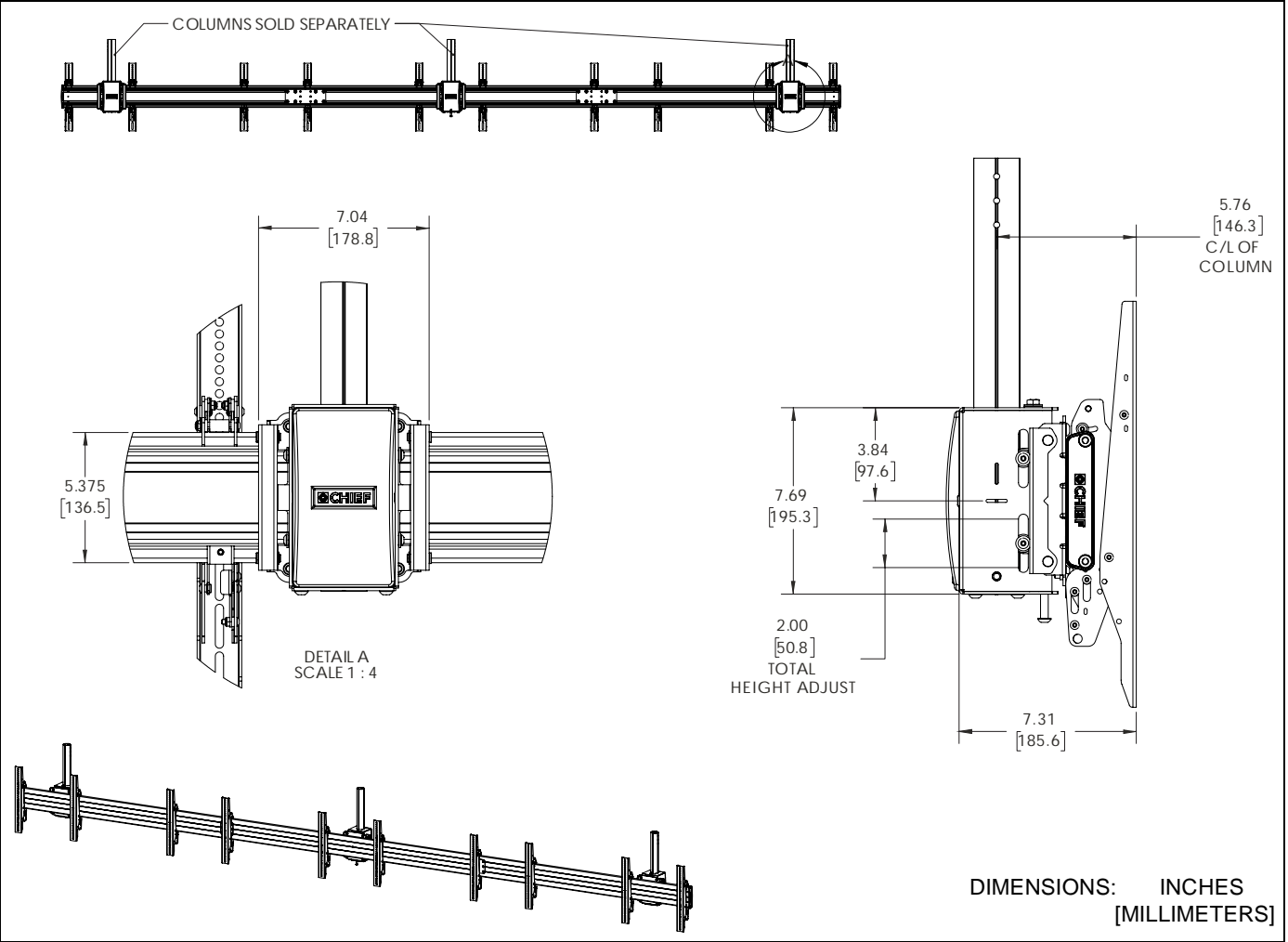
WARNING: Do not use this mounting system outdoors.

IMPORTANT ! : The LCM5X1U ceiling mounted menu boards are intended to be used with the UL Listed CPA Extension Column series and UL Listed CPA Ceiling Plates (not included): CPA330, CPA365, CPA395.

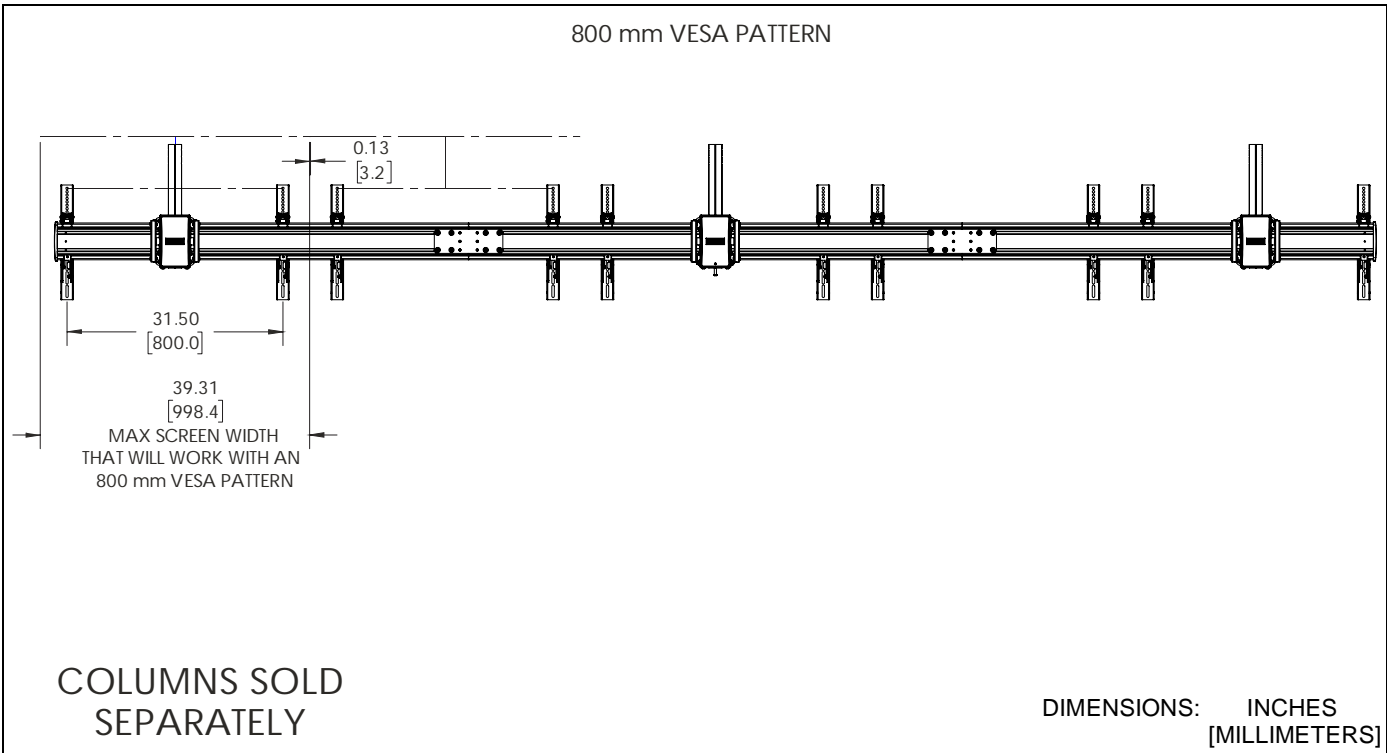
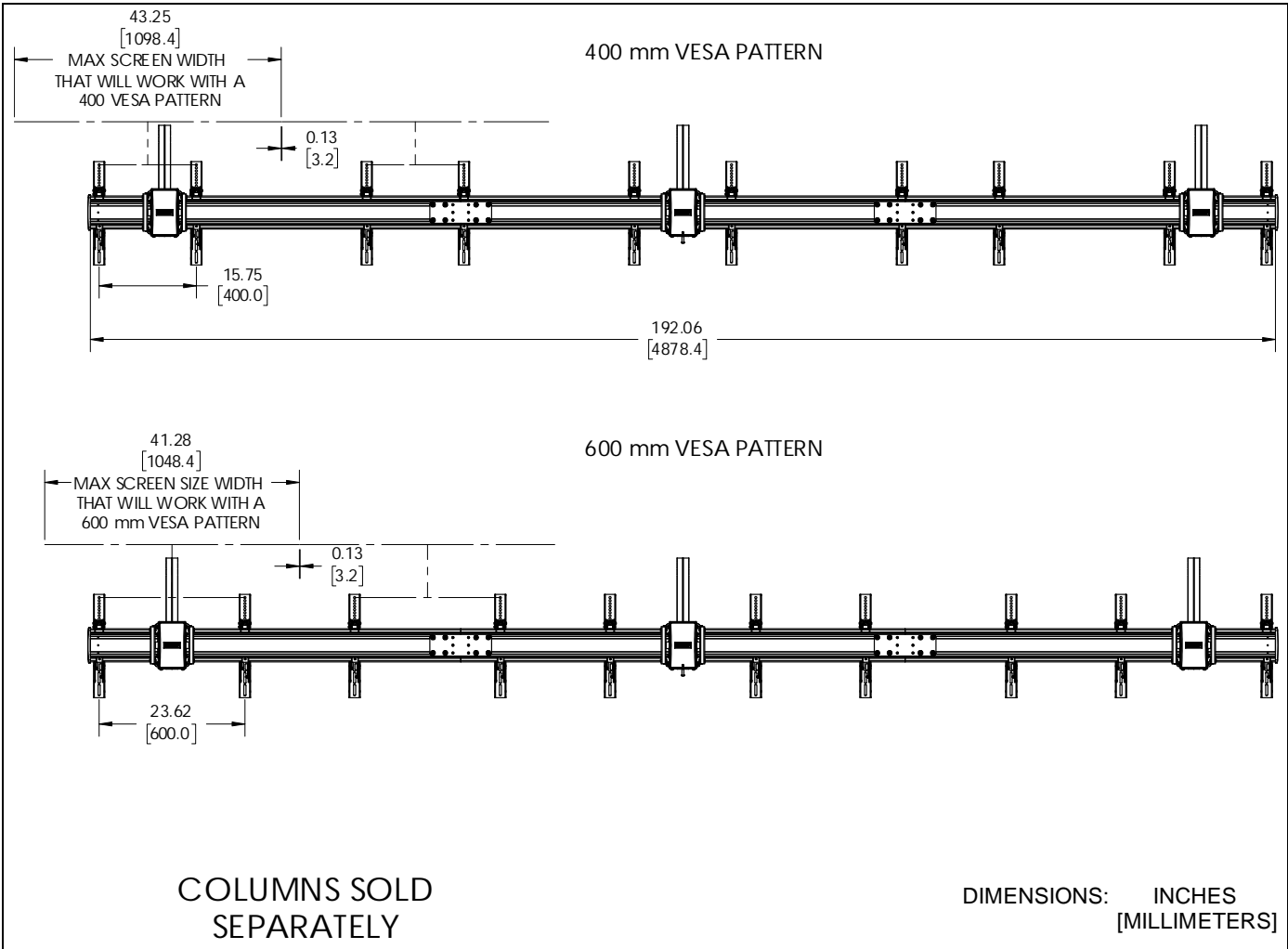
The following UL Listed Chief ceiling plates WITHOUT swaged collars (not included) may also be used: CMA330, CMA345, CMA395.

--SAVE THESE INSTRUCTIONS--

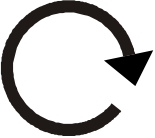











DIMENSIONS



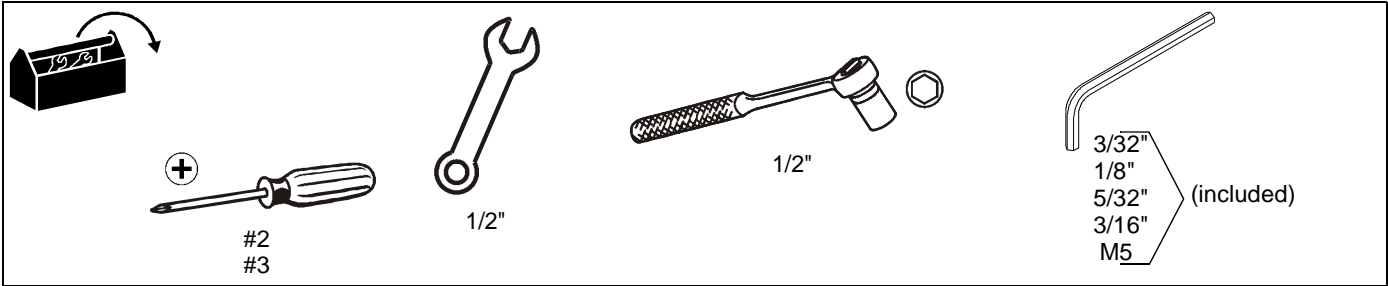
DIMENSIONS - cont'd.



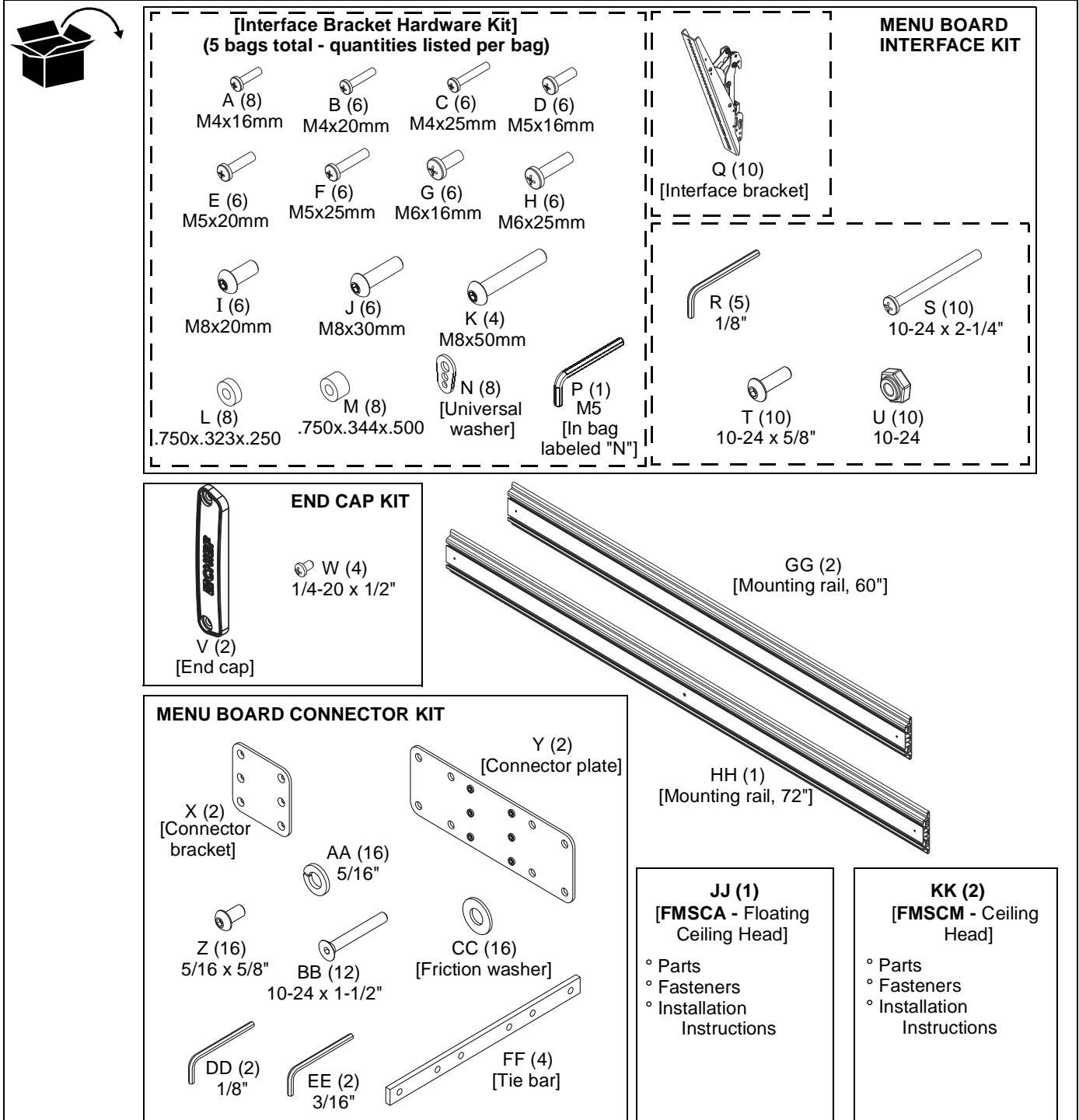
LEGEND

	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations		Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations		Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme		Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche		Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main		Optional Opcional Optional Opcional Opzionale Optie En option
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale		Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION



PARTS



INSTALLATION

NOTE: The following procedure assumes that 3 UL Listed CPA or CMA ceiling plates (not included) and 3 extension columns (not included) have been properly installed following instructions provided with ceiling plates and extension columns.

- The two outside ceiling plates and columns should be installed approximately spaced at center of outside screens. (See **Dimensions** drawings.)

IMPORTANT ! : The weight of the system should be evenly distributed across three ceiling plates.

IMPORTANT ! : Use the FMSCM height-adjust ceiling heads (KK) on the outside ends of the mounting rail assembly, and the FMSCA floating ceiling head (JJ) at the center of the mounting rail assembly.

Attaching Ceiling Heads to Extension Columns

NOTE — **Reference Ceiling Head Installation Manual:**

Attach the two FMSCM ceiling heads (KK) to the outside extension columns, and the FMSCA (JJ) to the center extension column using fasteners included with ceiling heads, and following ceiling head attachment instructions included with the ceiling heads.

Connecting Mounting Rails

- Insert two tie bars (FF) into the slots on one end of the 72" mounting rail (HH). (See Figure 1)

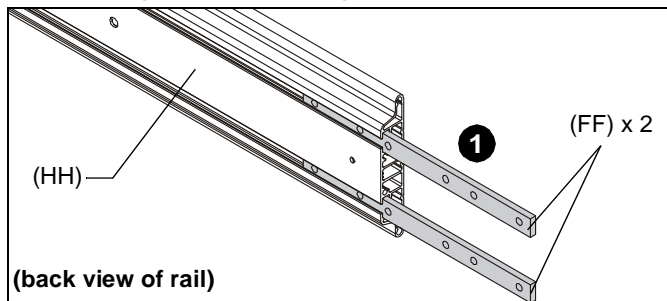


Figure 1

- Secure connector bracket (X) to front of mounting rail (HH) using three 10-24 x 1-1/2" flat head cap screws (BB) fastened through one side of connector bracket, mounting rail, tie bars (FF) and into connector plate (Y). (See Figure 2)

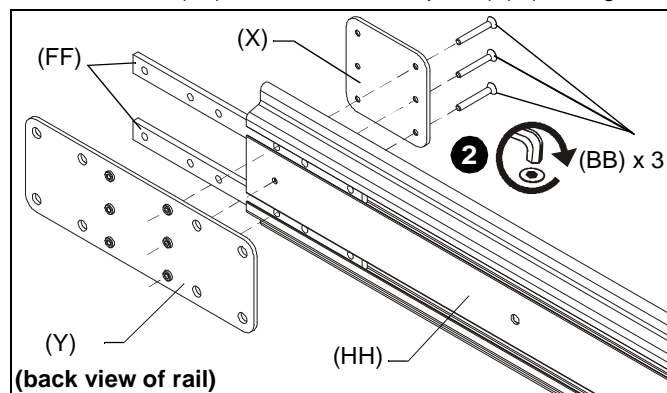


Figure 2

- Additionally fasten connector plate (Y) using four 5/16 x 5/8" button head cap screws (Z), four 5/16" split washers (AA), and four friction washers (CC). (See Figure 3)

- Slide one 60" section of mounting rail (GG) over tie bars (FF) and bring it flush to first section of mounting rail. (See Figure 3)

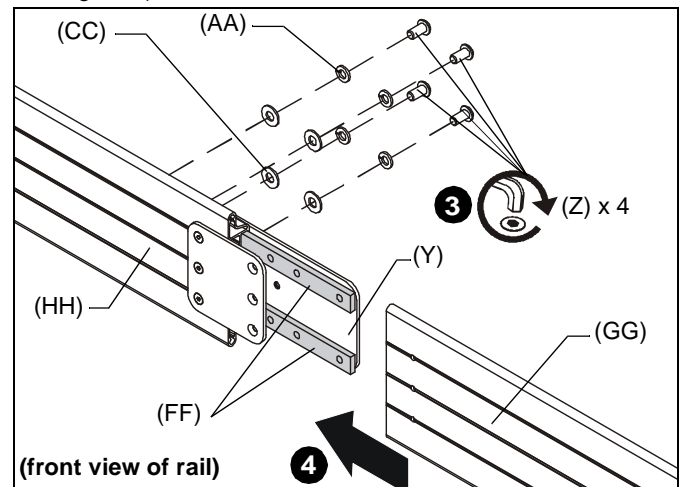


Figure 3

- Secure connector bracket (X) to front of 60" section of mounting rail (GG) using three 10-24 x 1-1/2" flat head cap screws (BB) fastened through one side of connector bracket, mounting rail, tie bars (FF) and into connector plate (Y). (See Figure 4)
- Additionally fasten connector plate (C) using four 5/16 x 5/8" button head cap screws (D), four 5/16" split washers (B), and four friction washers (F). (See Figure 4)

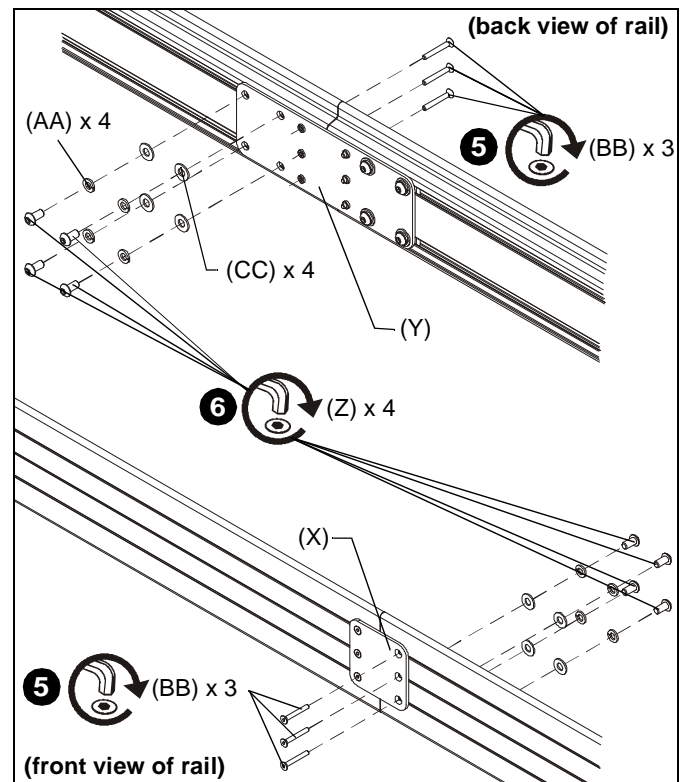


Figure 4

- Repeat Steps 1-6 for opposite end of 72" mounting rail (HH) and remaining 60" mounting rail (GG).

Adding End Caps to Mounting Rail

1. Add one end cap (V) to one end of mounting rail assembly, and fasten in place using two 1/4-20 x 1/2" Phillips self-tapping screws (W). (See Figure 5)

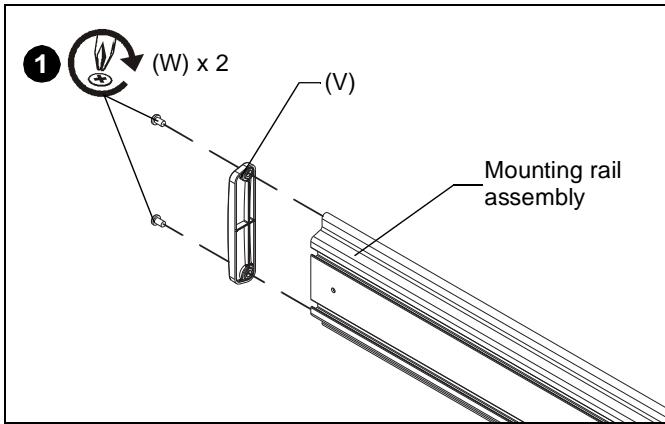


Figure 5

NOTE—► Reference Ceiling Head Installation Manual:

2. Attach mounting rail assembly to ceiling heads following instructions included with ceiling heads.
3. Fasten remaining end cap (V) to end of mounting rail assembly following Step 1. (See Figure 5)

Attaching Interface Brackets to Displays

1. Lower the latch mechanism on each interface bracket (Q). (See Figure 6)

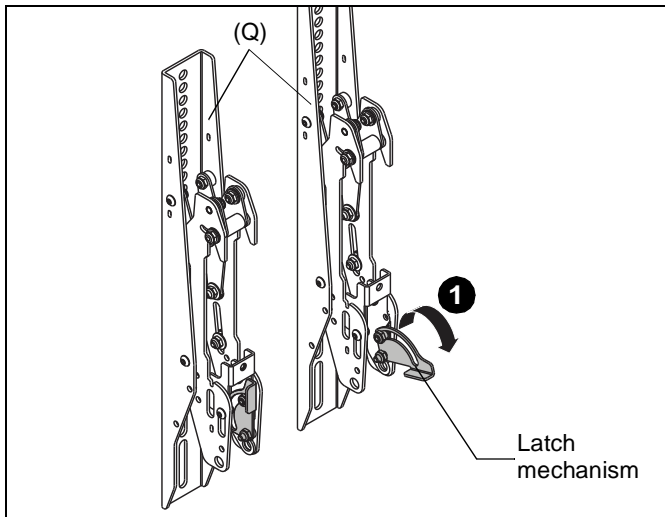


Figure 6

2. Align the center of the interface bracket (Q) with vertical center of screen. (See Figure 7)

NOTE: The diamond-shape hole in the bracket corresponds to the center of the mount.

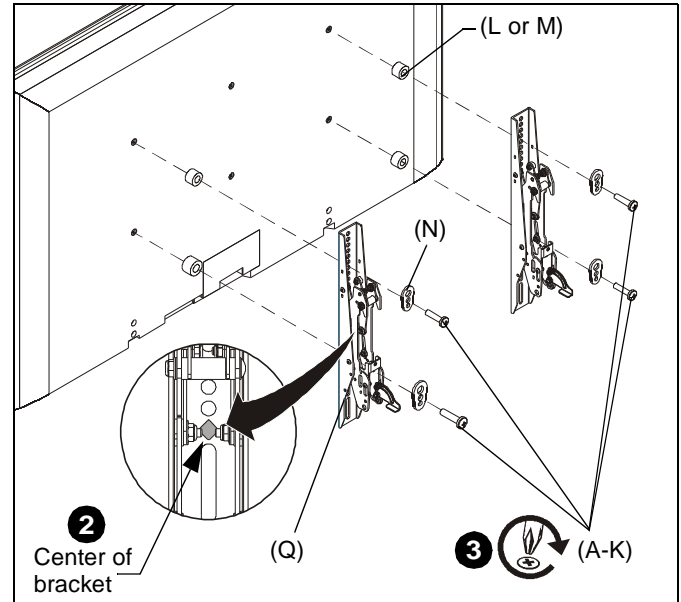


Figure 7



WARNING: IMPROPER INSTALLATION CAN LEAD TO DISPLAY FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Using screws of improper size may damage your display. Properly sized screws will easily and completely thread into display mounting holes. If spacers are required, be sure to use longer screws of the same diameter.

3. Select correct screws, spacers (if necessary) and universal washers from the hardware bag (A-N) and attach brackets (Q) to back of screens. (See Figure 7)

Attaching Displays to Mounting Rail



WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located within the mounting system of the LCM5X1U model does not exceed maximum weights listed in table below.

MODEL	Max Weight Allowed for <u>EACH</u> Display	Max Weight Capacity of Mounting System
LCM5X1U	125 lbs (56.7 kg)	625 lbs (283.5 kg)



CAUTION: BEFORE adding displays to the mounting rail, ensure end caps are in place at **BOTH** ends of mounting rail!



WARNING: IMPROPER DISPLAY INSTALLATION CAN RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Do NOT mount all of the displays on one end of mounting rail:

- The center display (1) MUST be installed first and centered on the center column. (See Figure 8)
- Mount displays 2 and 3 an equal distance from center display (1).
- Mount displays 4 and 5 at the ends of the mounting rail approximately centered on outside columns.

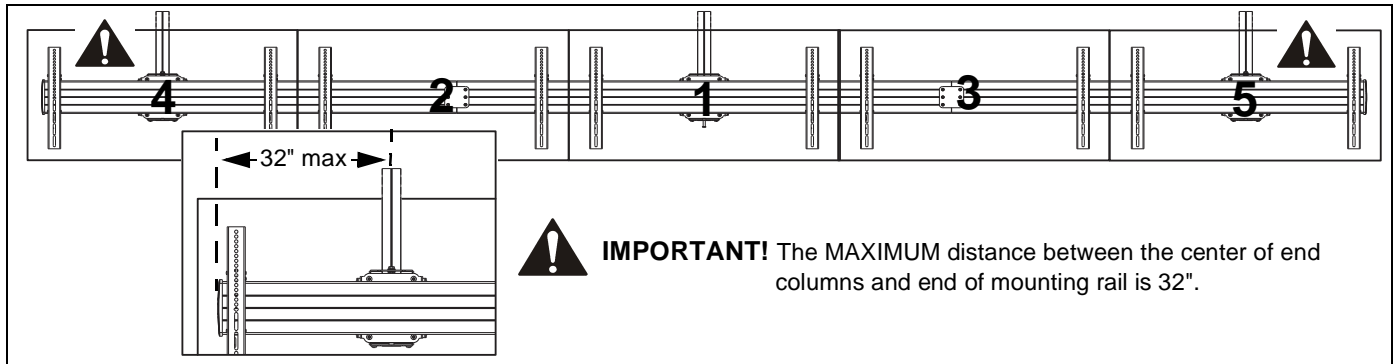


Figure 8

IMPORTANT ! : The interface bracket tilt may be adjusted either before or after adding displays to mounting rail. See **Adjustments** section.

1. Ensure that the latch mechanisms on interface brackets (Q) are already lowered. (See Figure 9)
2. While supporting both sides of display, lower display onto center of ceiling mount, hooking top of interface brackets onto front of ceiling mount. (See Figure 9)
3. Raise the latch mechanism on both interface brackets to lock bracket in place. (See Figure 9)

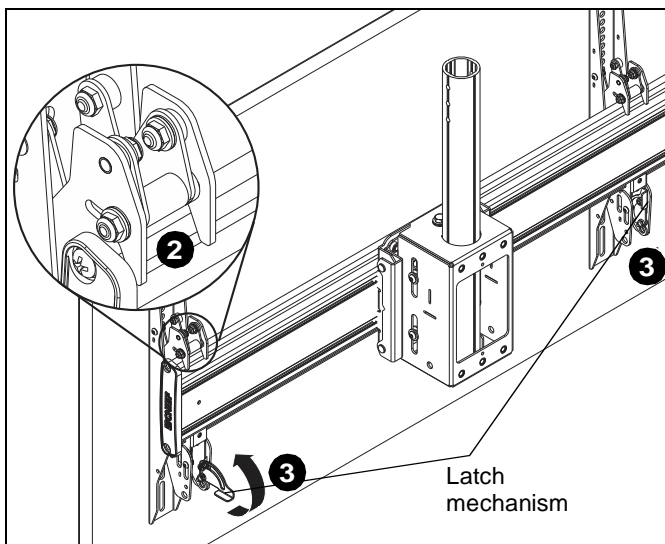


Figure 9

4. Fasten bracket against mounting rail using one 10-24 x 5/8" button head cap screw (T). (See Figure 10)

5. Repeat for other interface bracket.

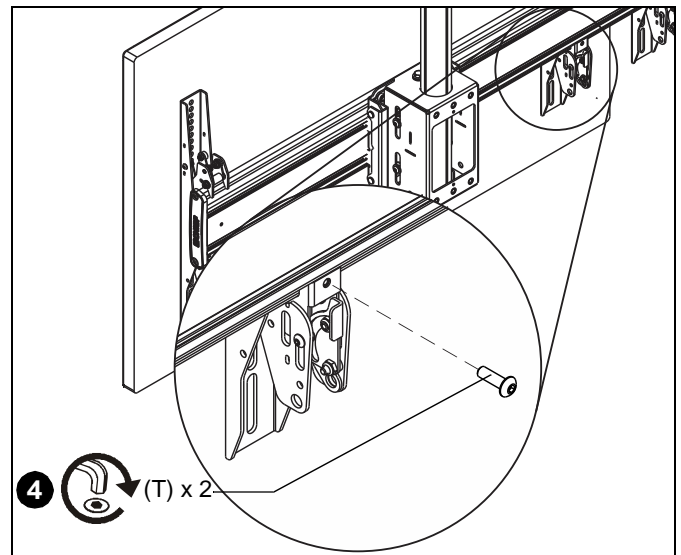


Figure 10

6. While supporting both sides of second display, lower second display onto one side of first display, hooking top of interface brackets onto front of mounting rail. (See Figure 9)
7. Repeat Steps 3 through 5 for second display.
8. While supporting both sides of third display, lower third display onto opposite side of first display, hooking top of interface brackets onto front of mounting rail. (See Figure 9)
9. Repeat Steps 3 through 5 for third display.
10. Repeat Steps 3 through 5 for remaining displays, adding displays following correct order shown. (See Figure 8)

Adjustments



CAUTION: Watch for pinch points! Do not place fingers between moveable parts.

Height Adjustment and Leveling

NOTE — **Reference Ceiling Head Installation Manual:**

1. Proceed with height adjustment and leveling of the mounting rail following installation instructions included with the FMSCA (JJ) and FMSCM (KK).
2. Install the back cover to each ceiling head following installation instructions included with the FMSCA (JJ) and FMSCM (KK).

Tilt

The interface brackets allow -5° to 20° tilt, and can be locked at 0°, 10° and 20° tilt.

3. If necessary, loosen buttonhead tilt friction bolt (located on side of interface bracket). (See Figure 11)
4. Adjust tilt as required. (See Figure 11)
5. The tilt may be locked at 0°, 10° and 20° using one 10-24 x 2-1/4" Phillips head screw (S) and one 10-24 lock nut (U) per interface bracket. (See Figure 11)
6. Tighten tilt friction bolt as necessary.

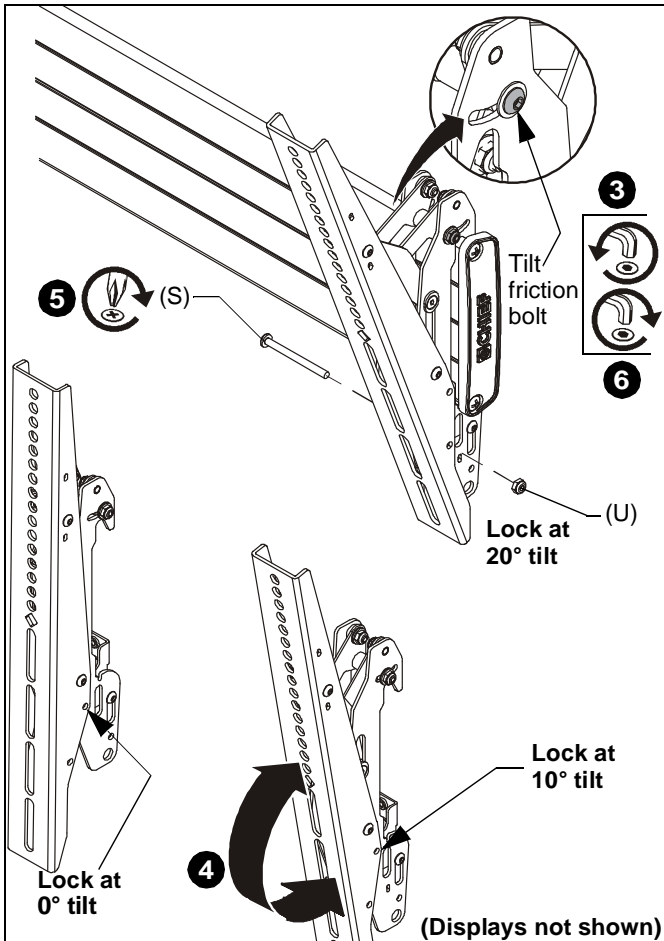


Figure 11

OPTIONAL: Security

1. **OPTIONAL:** Add padlock (not included) to each interface bracket to lock display to mounting rail. (See Figure 12)

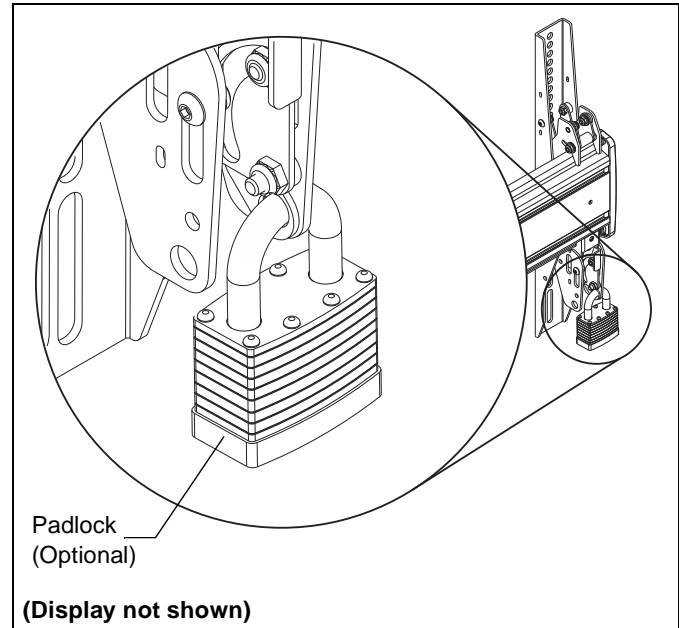


Figure 12



Our Mounts. **Your Vision.**

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