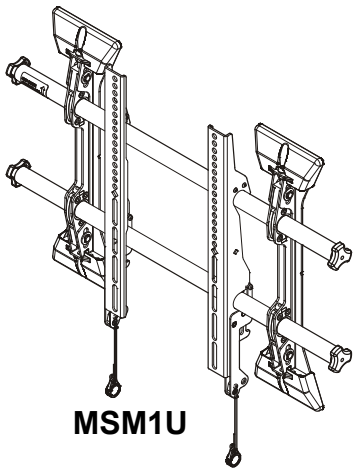
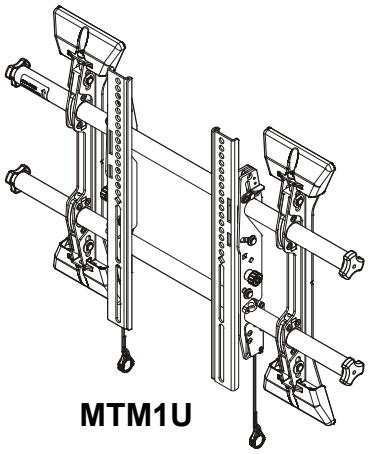
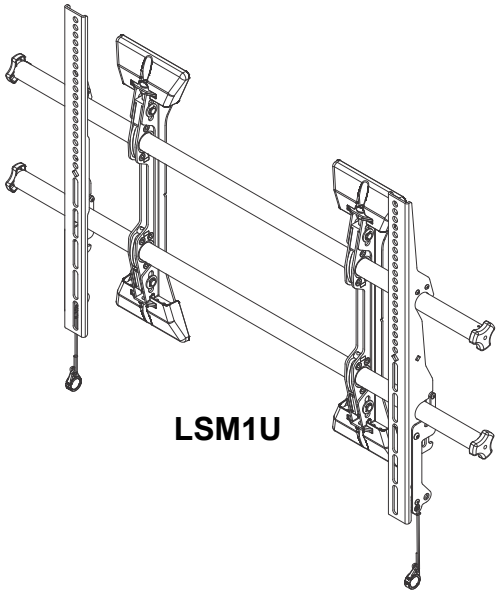
INSTALLATION INSTRUCTIONS



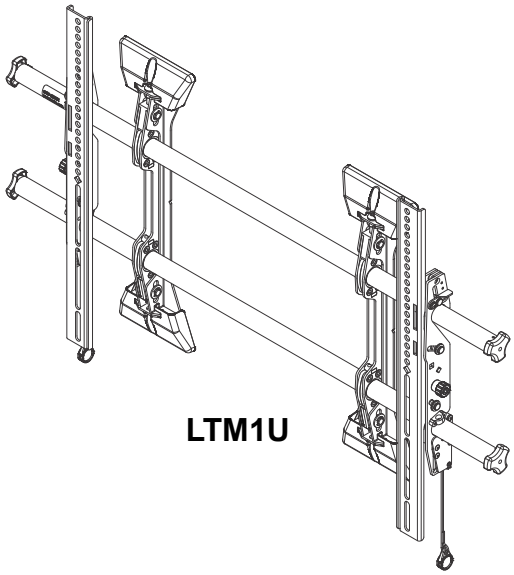
MSM1U



MTM1U



LSM1U



LTM1U

FUSION HEIGHT ADJUST FLAT PANEL MOUNTS

CHIEF®

A brand of legrand®

MSM1U / MTM1U / LSM1U / LTM1U

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 and accessories attached to the MSM1U/MTM1U/LSM1U/LTM1U does not exceed:

- **MSM1U/MTM1U**
  - 16" wood studs: 125 lbs (56.7 kg)
  - 16" steel studs: 125 lbs (56.7 kg)
  - Bare concrete/block: 125 lbs (56.7 kg)
- **LSM1U/LTM1U**
  - 16" / 24" wood studs: 200 lbs (90.7 kg)
  - 16" / 24" steel studs: 175 lbs (79.4 kg)
  - Bare concrete/block: 200 lbs (90.7 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 MSM1U/MTM1U/LSM1U/LTM1U mounts are designed to be mounted to:

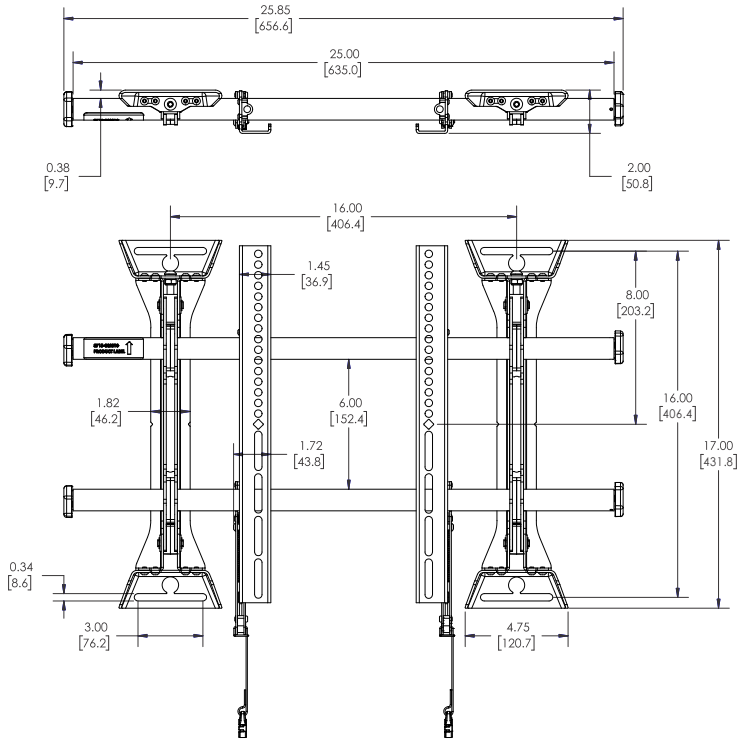
- a bare 8" concrete or 8"x8"x16" concrete block wall, or
- a 2" x 4" wood studs wall covered by drywall with maximum thickness of 5/8":
- 2" x 4"-25ga minimum steel studs wall.
  - **MSM1U/MTM1U:** Wood/steel studs must be 16" on center;
  - **LSM1U/LTM1U:** Wood/steel studs may be 16" or 24" on center.

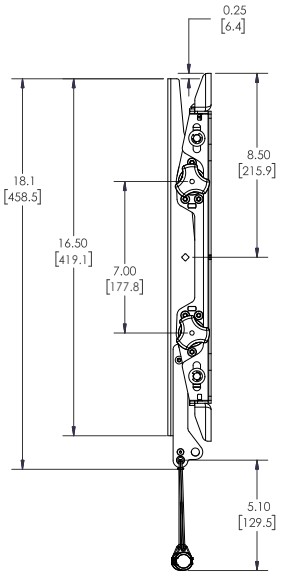
NOTE: The MSM1U/MTM1U/LSM1U/LTM1U Fusion height-adjust mounts may be used with the UL Listed FCAV1U Fusion pull-out accessory.

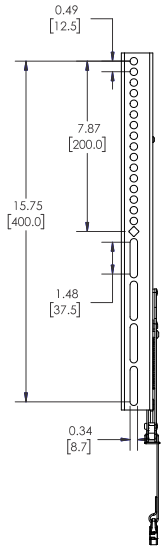
--SAVE THESE INSTRUCTIONS--

DIMENSIONS

MSM1U



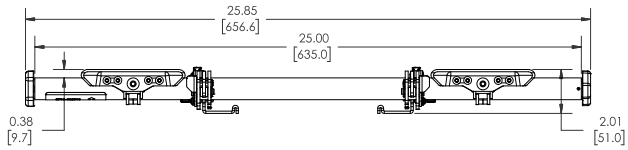


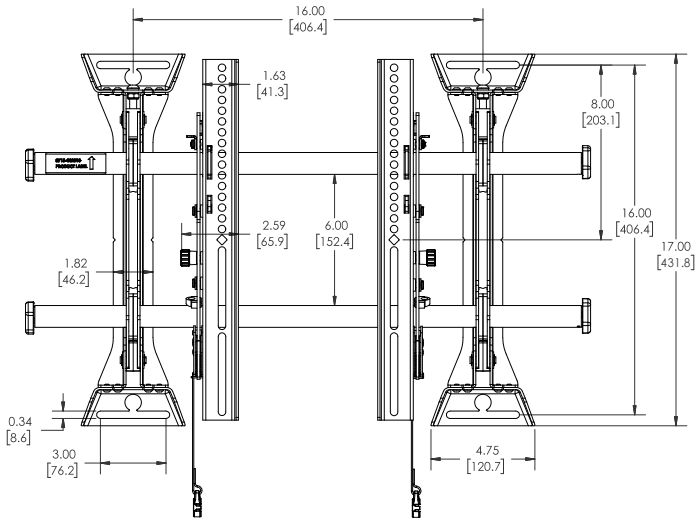


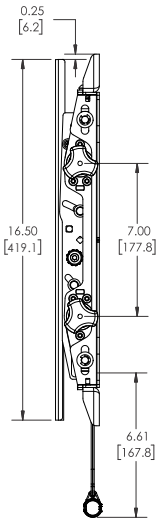
1. MAXIMUM MOUNTING PATTERN IS 22.7" [576mm] WITHOUT REVERSING UPRIGHTS (AS SHOWN)
2. MAXIMUM MOUNTING PATTERN IS 25.3" [642mm] WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" [19mm]

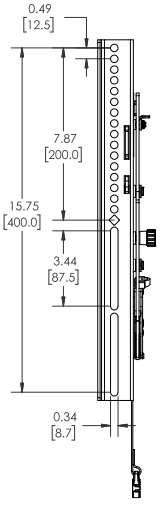
DIMENSIONS: INCHES [MILLIMETERS]

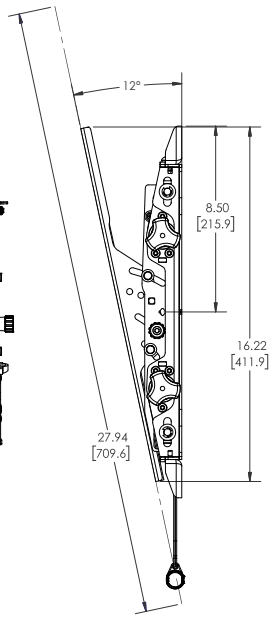
MTM1U









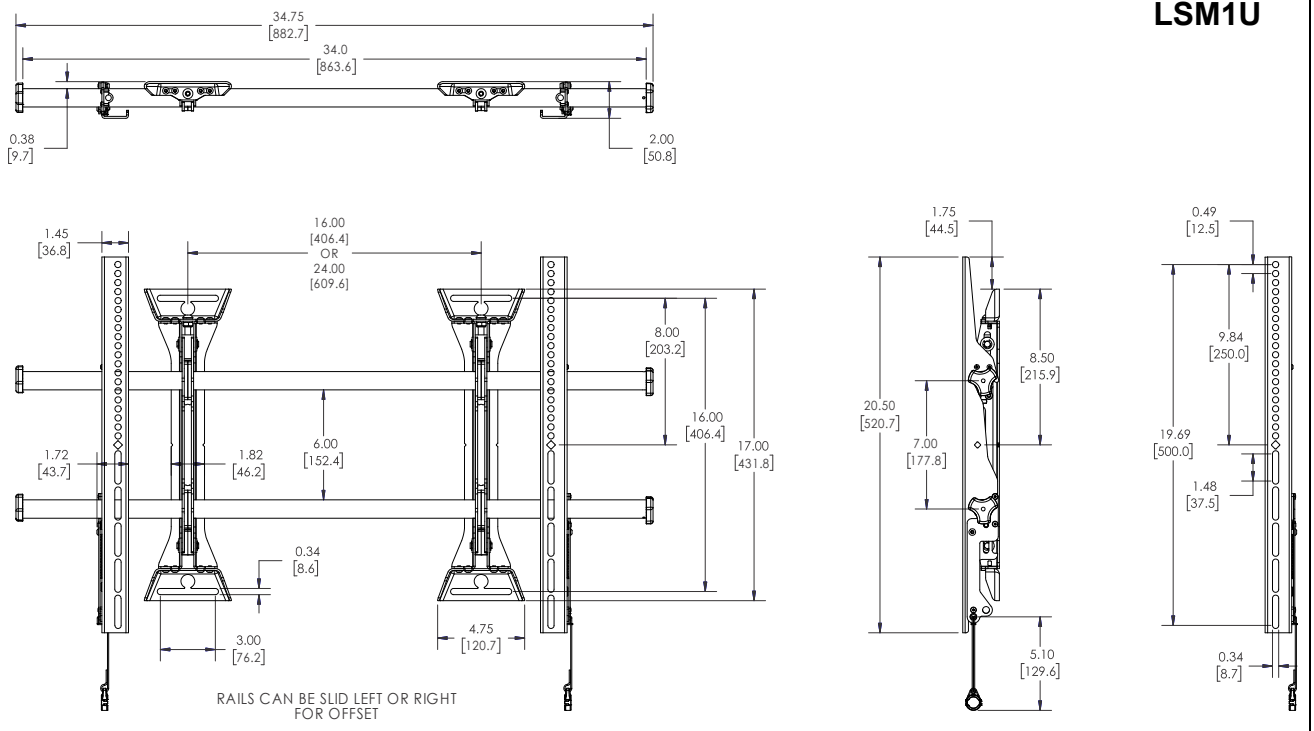


1. MAXIMUM MOUNTING PATTERN IS 22.25" [565mm] WITHOUT REVERSING UPRIGHTS (AS SHOWN)
2. MAXIMUM MOUNTING PATTERN IS 25.6" [650mm] WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" [19mm]

DIMENSIONS: INCHES [MILLIMETERS]

DIMENSIONS - continued

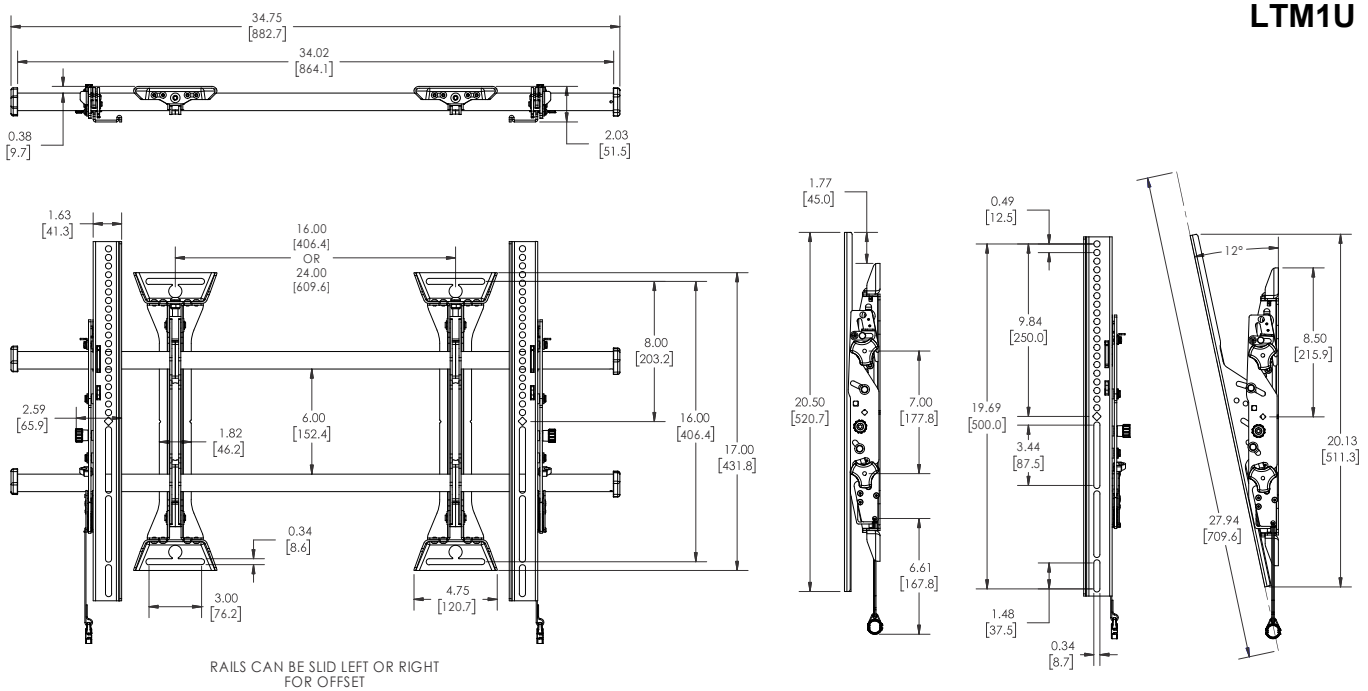
LSM1U



1. MAXIMUM MOUNTING PATTERN IS 31.7" [805mm] WITHOUT REVERSING UPRIGHTS (AS SHOWN)
2. MAXIMUM MOUNTING PATTERN IS 34.3" [871mm] WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" [19mm]

DIMENSIONS: INCHES [MILLIMETERS]

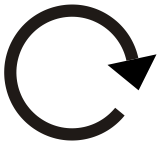
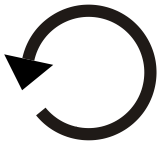
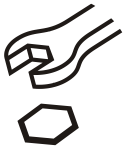
LTM1U



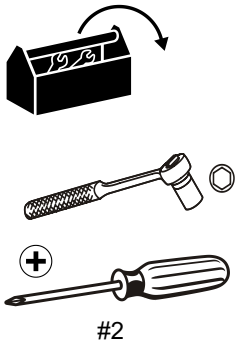
1. MAXIMUM MOUNTING PATTERN IS 31.25" [793mm] WITHOUT REVERSING UPRIGHTS (AS SHOWN)
2. MAXIMUM MOUNTING PATTERN IS 34.6" [878mm] WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" [19mm]

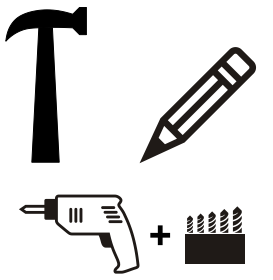
DIMENSIONS: INCHES [MILLIMETERS]

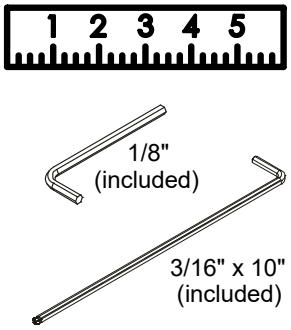
LEGEND

	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



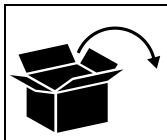




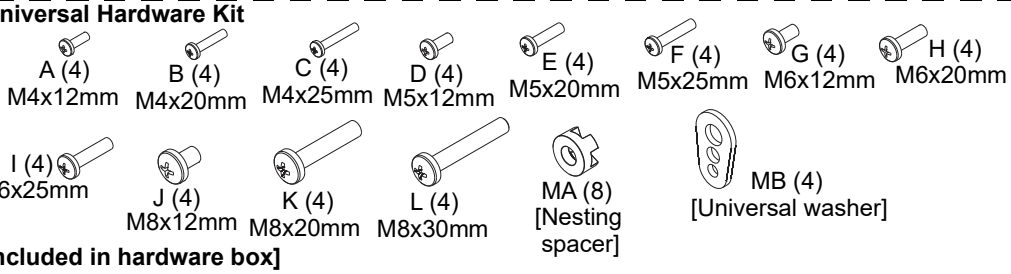
Hardware Required - not included (for installation into steel stud walls)

1. Hardware for installation to steel stud wall:
   - 1/4-20 BB Toggler Snaptoggle (Qty 4)
   - 1/4-20 x 2-1/2" Phillips screw (Qty 4)
   - 1/4" washer (Qty 4)

PARTS

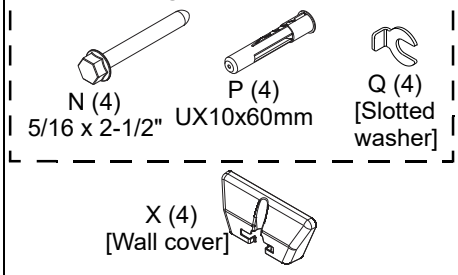


Universal Hardware Kit

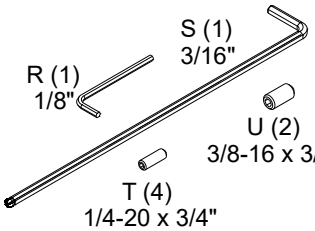


[Included in hardware box]

Wall Mounting Hardware Kit

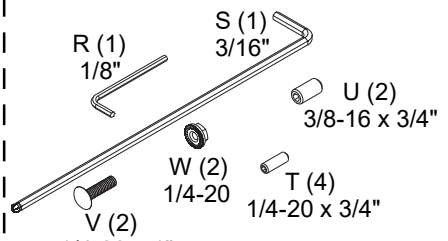


MSM1/LSM1 Mount Hardware

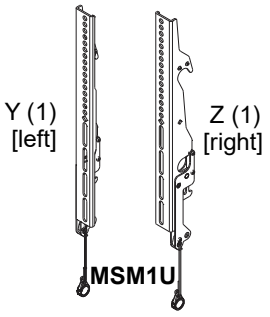


[Included in hardware box]

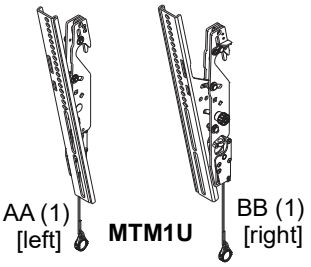
MTM1/LTM1 Mount Hardware



[Included in hardware box]

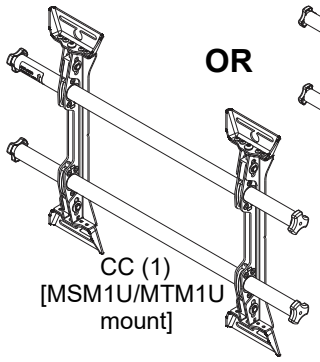


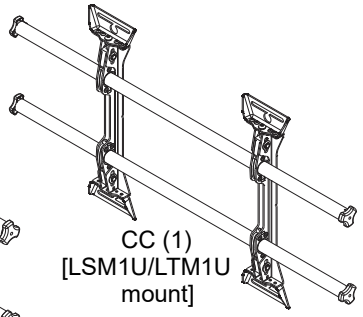
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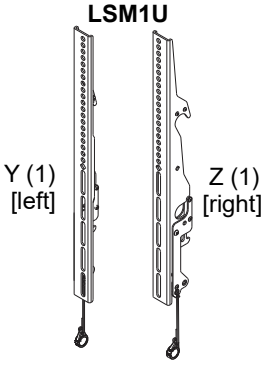
[Interface brackets]

OR

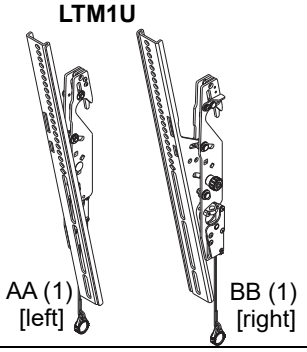




LSM1U



LTM1U



INSTALLATION

The MSM1U/MTM1U/LSM1U/LTM1U mounts are designed to be mounted to a bare 8" concrete, 8"x8"x16" concrete block; a 2" x 4" wood studs (16" on center for MSM1U/MTM1U, 16" or 24" on center for LSM1U/LTM1U) wall covered by drywall of 5/8" maximum thickness; or a 2" x 4"-25ga minimum (16" on center for MSM1U/MTM1U, 16" or 24" on center for LSM1U/LTM1U) steel studs wall.

The MTM1U and LTM1U have brackets which allow the TV to be tilted. The MSM1U and LSM1U have static brackets which keep the TV in an upright position.

Locate Mounting Site

WARNING: IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installers responsibility to make certain the structure to which the mount is being attached is capable of supporting five times the combined weight of all components located on the mount, not to exceed 125 lbs (56.7 kg) for the MSM1U/MTM1U OR 200 lbs (90.7 kg) for the LSM1U/LTM1U.

NOTE: Proceed to either the **Installing to a Wood Stud Wall** section, the **Installing to a Concrete Wall** section, or the **Installing to a Steel Stud Wall** section.

Installing to a Wood Stud Wall

1. Determine the center of the TV screen, and where it should be located on the wall.
2. Locate the closest stud to the left and right of the selected location.

NOTE: If the screen area lies over a stud, use that stud and the stud to either the left or right of it.

3. Line up the notches on mount (CC) with center of screen marking to determine vertical center. (See Figure 1)
4. Measure up 8" (203.2mm) from the center point to mark location of the upper mounting slots.

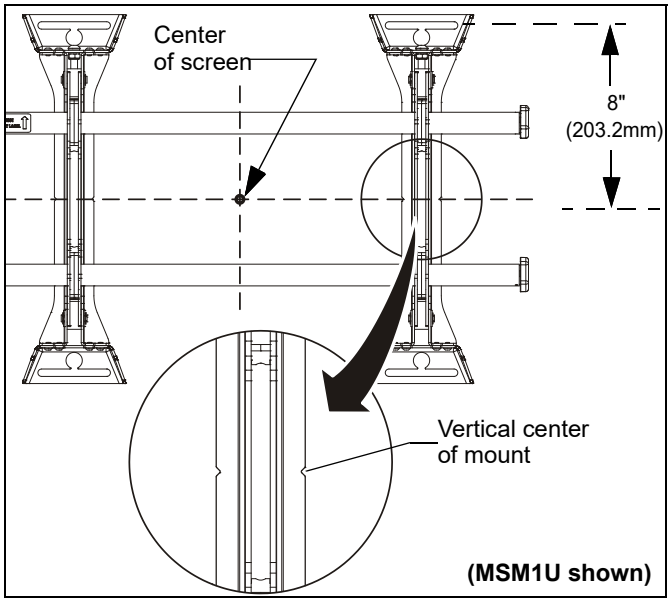


Figure 1

5. Using a level, mark the wall on each stud to attach the mount through the upper mounting slots. (See Figure 2)
6. Drill one 7/32" (5.5mm) pilot hole in each stud.
7. Partially install two 5/16 x 2-1/2" flanged lag bolts (N) into pilot holes but do not tighten to wall.
8. Hang mount (CC), aligning upper mounting slots over lag bolts and adjust side-to-side for proper location.
9. Place one slotted washer (Q) over each flanged lag bolt. (See Figure 2)
10. Tighten lag bolts to secure mount (CC) to wall at upper mounting slots.

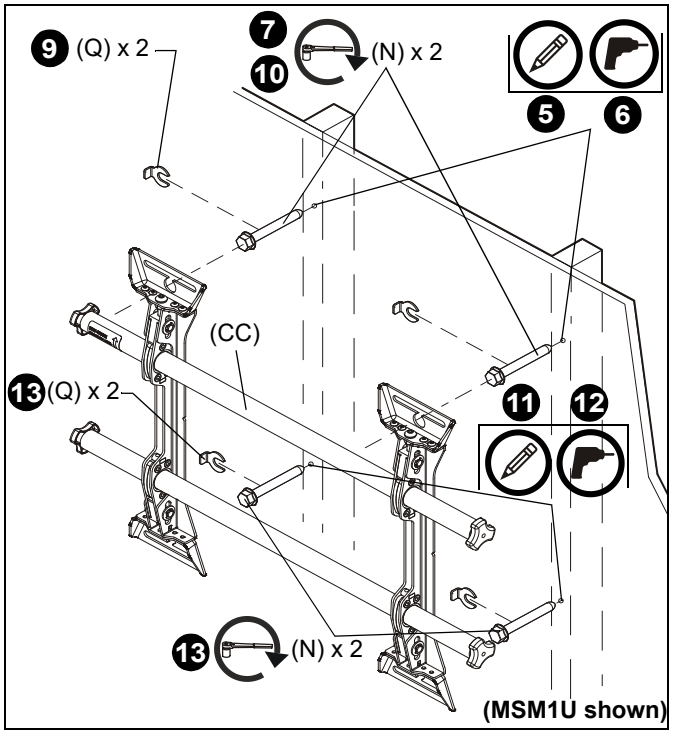


Figure 2

11. Mark the attachment points for the lower mounting slots, making sure the attachment points are located on the studs. (See Figure 2)
12. Drill 7/32" (5.5mm) pilot holes at markings for lower mounting holes. (See Figure 2)
13. Use two 5/16 x 2-1/2" flanged lag bolts (N) and two 5/16" slotted washers (Q) to attach the mount to the wall through the lower mounting holes. (See Figure 2)
14. Slide rails to approximate center of screen location.
15. Proceed to **Locking Rails** section.

Installing to a Concrete Wall

1. Determine the center of the TV screen, and where it should be located on the wall.
2. Line up the notches on mount (CC) with center of screen marking to determine vertical center. (See Figure 1)
3. Measure up 8" (203.2mm) from the center point to mark location of the upper mounting slots. (See Figure 1)
4. Using a level, mark the wall through both upper mounting slots. (See Figure 3)

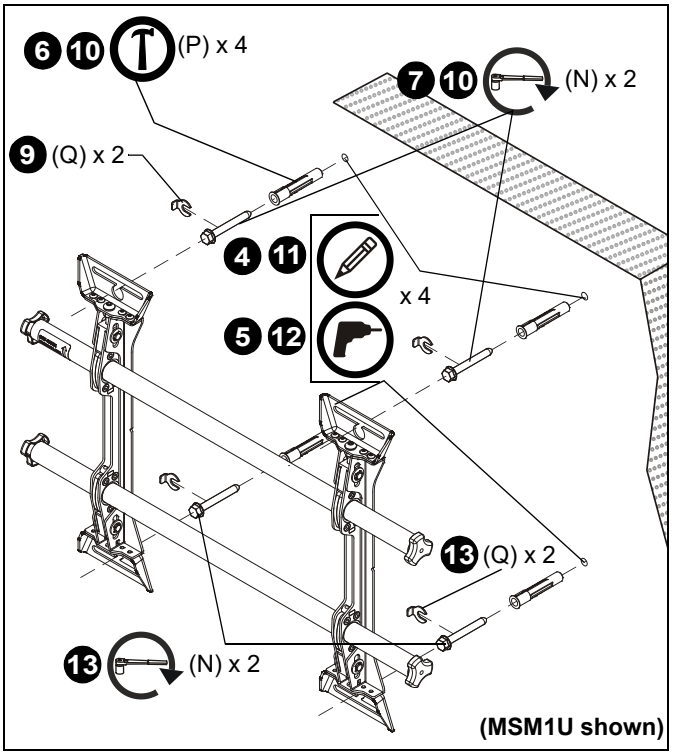


Figure 3

CAUTION: MINIMUM HORIZONTAL DISTANCE BETWEEN WALL BRACKETS IS 16" (406.4mm). Do not place mounting brackets closer together than 16" (406.4mm).

5. Drill one 3/8" x 3-1/2" (9.5mm x 88.9mm) pilot hole at each marking.
6. Install an anchor (P) into each pilot hole using a hammer, making sure that the anchor is flush with the wall.
7. Partially install two 5/16 x 2-1/2" flanged lag bolts (N) into pilot holes but do not tighten to wall.
8. Hang mount (CC), aligning upper mounting slots over lag bolts and adjust side-to-side for proper location.
9. Place one slotted washer (Q) over each flanged lag bolt.
10. Tighten lag bolts to secure mount (CC) to wall at upper mounting slots.
11. Mark the attachment points for the lower mounting slots, making sure the attachment points are located on the studs.
12. Drill 3/8" x 3-1/2" (9.5mm x 88.9mm) pilot holes at markings for lower mounting holes. (See Figure 3)
13. Use two 5/16 x 2-1/2" flanged lag bolts (N) and two 5/16" slotted washers (Q) to attach the mount to the wall through the lower mounting holes. (See Figure 3)
14. Slide rails to approximate center of screen location.

Installing to a Steel Stud Wall

WARNING: IMPROPER INSTALLATION CAN LEAD TO EQUIPMENT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! The figure below identifies the minimum requirements for installation of display mounts onto a steel stud structure. If the structure or its components do not meet these requirements, contact the mount manufacturer for specific instructions before attempting installation. It should also be noted that no other equipment should be mounted to the same stud.

NOTE: Hardware required to install MSM1U/MTM1U/LSM1U/LTM1U to a steel stud wall is not included with this kit. Use: **1)** 1/4-20 BB Toggler Snaptoggle (Qty 4); **2)** 1/4-20 x 2-1/2" Phillips screw (Qty 4); and **3)** 1/4" washer (Qty 4)

WARNING: If back side of wall is unfinished, drywall must be installed to a minimum of one stud left and right of the stud(s) being used to install the mount. Drywall must be secured to studs with screws 12" on center.

NOTE: Stud type and structural strength must conform to the North American Specification for the design of Cold-Formed Steel Structural Members. [362 S 125 18, C-Shaped, S-stud Section]

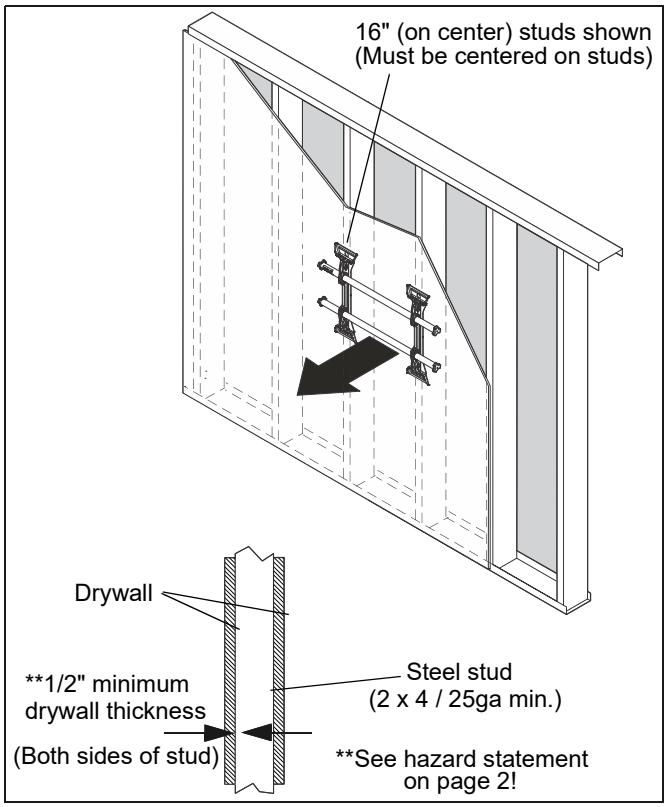


Figure 4

1. Drill a 1/2" hole at the desired location.
2. Hold metal channel on anchor (A) flat alongside plastic straps and slide channel through hole. (See Figure 5)

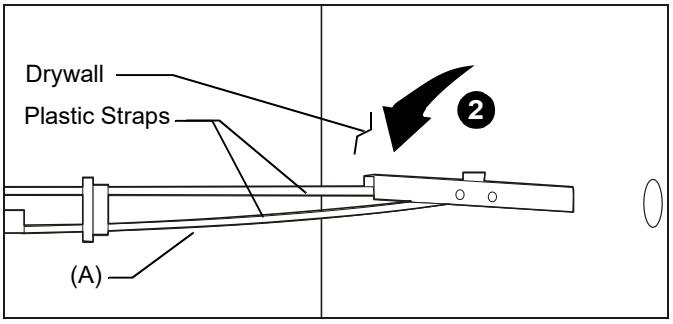


Figure 5

3. Holding plastic straps on anchor (A), pull anchor away from wall until channel rests flush behind wall, making sure anchor channel is positioned vertically on stud. (See Figure 6)
4. Slide plastic cap on anchor (A) towards wall until flange of cap is flush with wall. (See Figure 6)

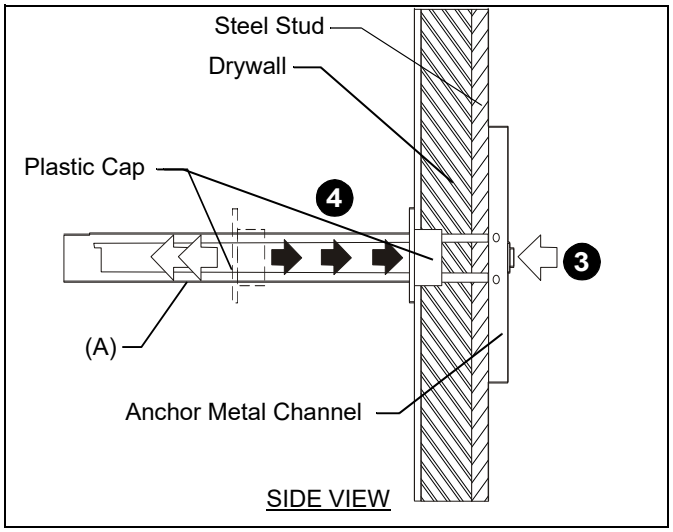


Figure 6

5. Snap off plastic straps on anchor at wall by pushing side to side, snapping of straps level with flange of plastic cap. (See Figure 7)
6. Repeat Steps 1 through 5 for each mounting hole.

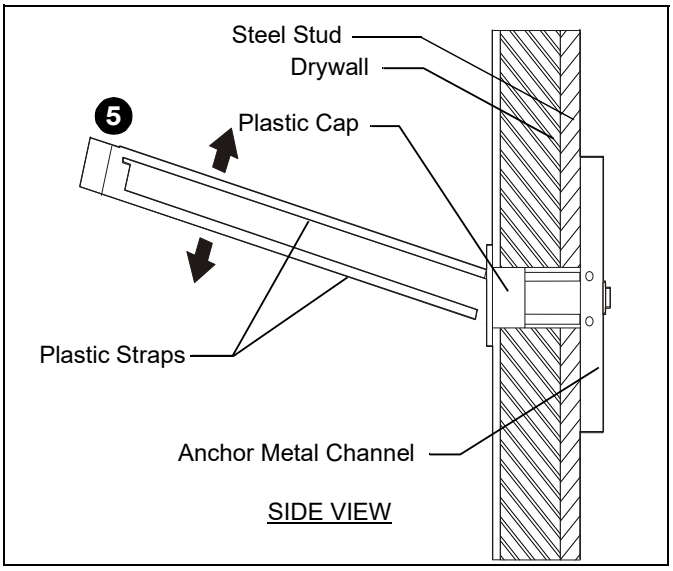


Figure 7

7. Place mount over anchors and align mounting holes in display mount with holes in anchors. (See Figure 8)

WARNING: IMPROPER INSTALLATION CAN LEAD TO EQUIPMENT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Overtightening of mounting hardware can damage the steel studs. DO NOT overtighten mounting hardware!

8. Insert 1/4-20 x 1-2/4" Phillips pan head screw (B) through 1/4" washer (C), corresponding mounting hole on mount and into anchor (A) and tighten until flush against mount. DO NOT overtighten! (See Figure 8)
9. Repeat Steps 7 and 8 for remaining mounting holes.

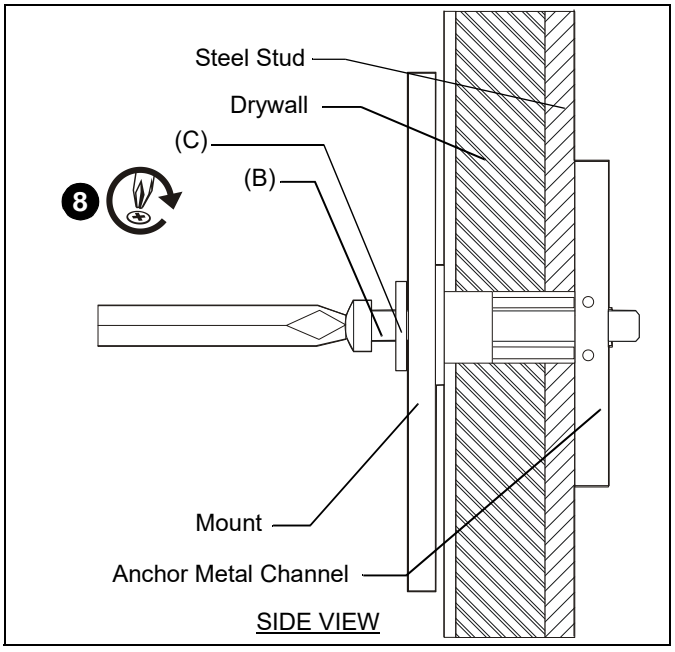


Figure 8

Locking Rails (Optional)

1. Lock rails into place using two 1/4-20 x 3/4" set screws (T) on mount upright (CC) and the 1/8" hex key (R). (See Figure 9)
2. Repeat for remaining mount upright.

NOTE: To easily install upper set screw against upper rail, place set screw (T) onto hex key (R), and feed up into hole while turning to tighten.

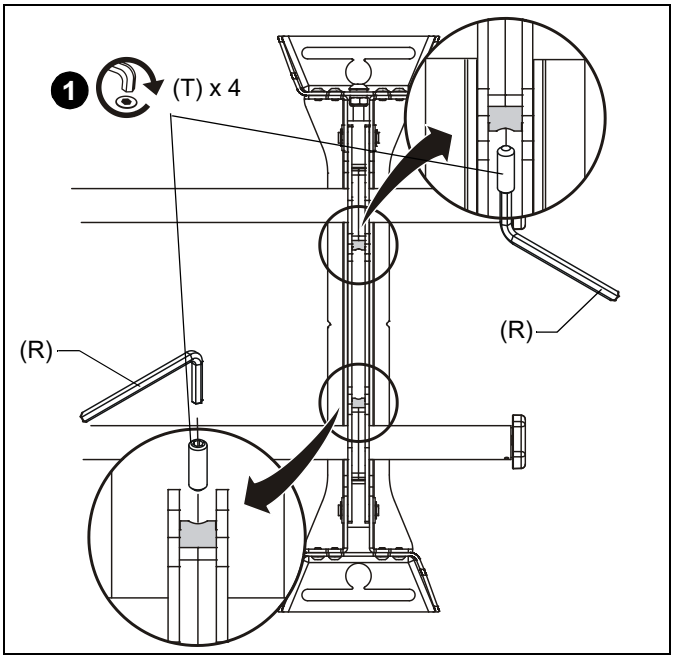
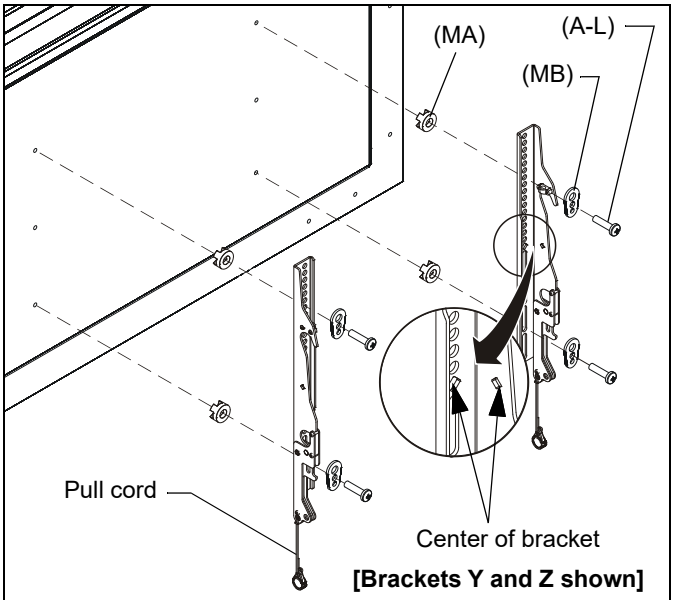


Figure 9

Attaching Interface Brackets to Screen

1. Align the center of the bracket (Y and Z or AA and BB) with center of screen. (See Figure 10)

NOTE: The diamond-shape holes in the bracket correspond to the center of the mount.



NOTE: Use universal washer (MB) ONLY with M4, M5 and M6 screws.

Figure 10

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.

2. Select correct screws, nesting spacers (if necessary) and universal washers (if required) from the hardware bag (A-M) and attach brackets to back of screen. (See Figure 10)

IMPORTANT ! : The M8 screws do **NOT** require a washer. Use the universal washer (MB) only with M4, M5 and M6 screws.

NOTE: The nesting spacers (MA) may be used separately, or put two together in different configurations to create different size spacers. (See Figure 11)

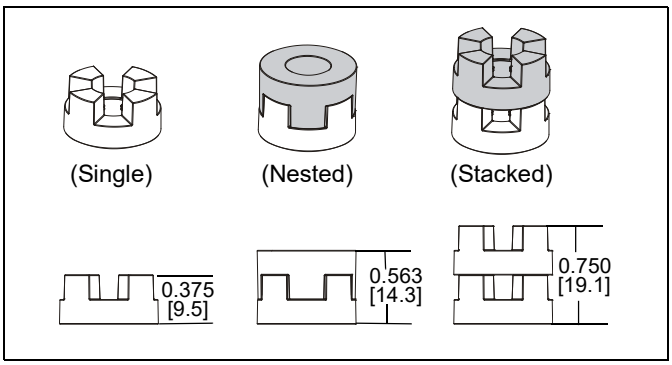


Figure 11

Switching Interface Brackets (Optional)

If an installation situation makes adjusting the location of interface brackets necessary, there are several options.

1. The wall brackets may be adjusted side to side at the point of attachment. (See Figure 12)
2. The location of the left and right interface brackets (Y and Z or AA and BB) may be switched, with the knobs on the MTM1U/LTM1U interface brackets (AA and BB) facing the inside of the mount. (See Figure 12)

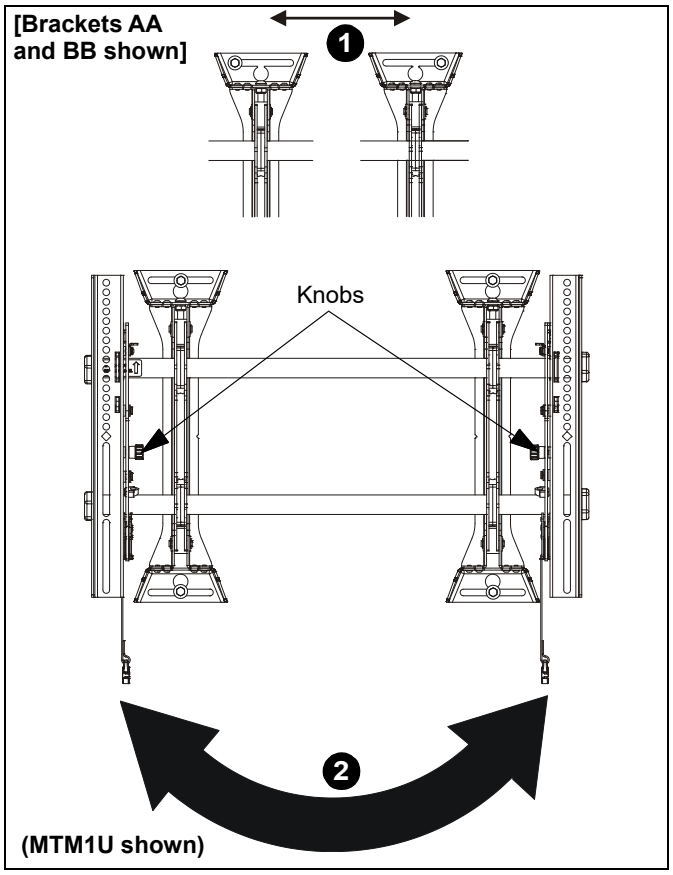


Figure 12

3. If necessary, the tilt interface bracket knobs may be switched to allow the interface brackets (AA and BB) to be reversed. (See Figure 13)
   a. Remove display from mount.
   b. Remove interface brackets from display.
   c. Hold the right interface bracket horizontally, tightly gripping it so that spacers do not move.
   d. Remove the knob and screw.
   e. Replace the knob and screw in the opposite order, with the knob on the inside of the bracket.
   f. Switch the right interface bracket to the left side of the wall mount.
   g. Repeat Steps 3c through 3f with the left interface bracket.

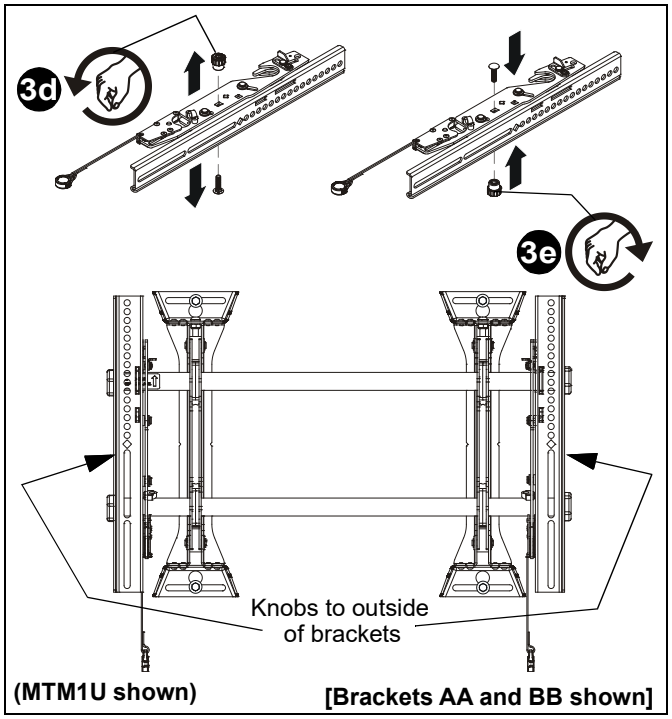


Figure 13

Attaching Screen to Wall Mount

1. Attach wall covers (X) to top and bottom of both wall brackets. (See Figure 14)

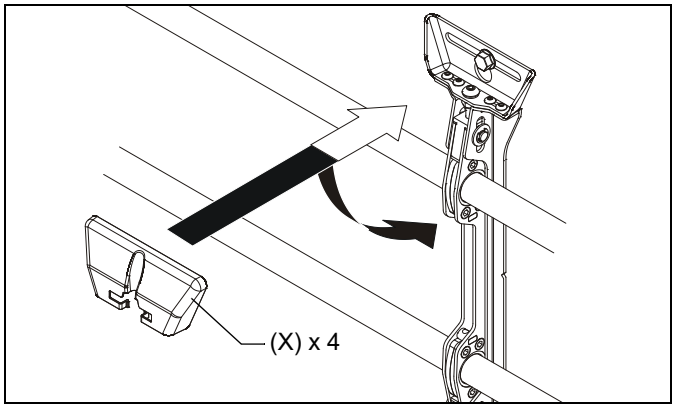


Figure 14

NOTE: NEVER place both interface brackets (Y and Z or AA and BB) to one side of the wall mount center line! (See Figure 15)

NOTE: Do NOT allow both interface brackets (Y and Z or AA and BB) to be located on same side of wall bracket. (See Figure 15)

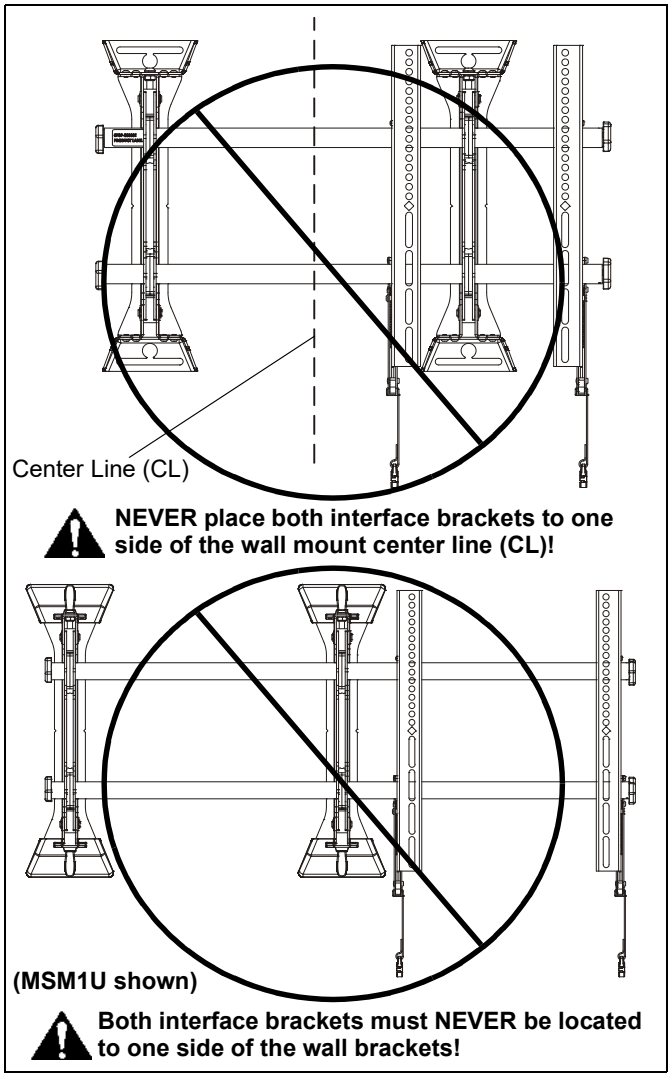


Figure 15

2. Hang screen onto the top rail of the mount (CC). (See Figure 11)
   - **MSM1U / LSM1U:** Hang top hook of interface brackets (Y and Z) onto the top rail of the mount (CC). (See Figure 16)
   - **MTM1U / LTM1U:** Move latch on top of interface bracket to OPEN position and hang top hook of interface brackets (AA and BB) onto the top rail of the mount (CC). (See Figure 16)

NOTE: The screen initially installs into the "service mode" to allow easy cable access.

3. Adjust screen and rails to desired viewing position.
4. Route cables between wall and rails.

CAUTION: PINCH POINTS! Keep fingers, hands and cables out of pinch point areas.

5. Pull downward on the pull cords and swing inward toward wall, latching interface brackets to lower rail and fastening bottom of screen to the mount. (See Figure 16)
6. Attach end of pull cord (a magnet) to mount so it does not extend beyond bottom of screen. (See Figure 16)

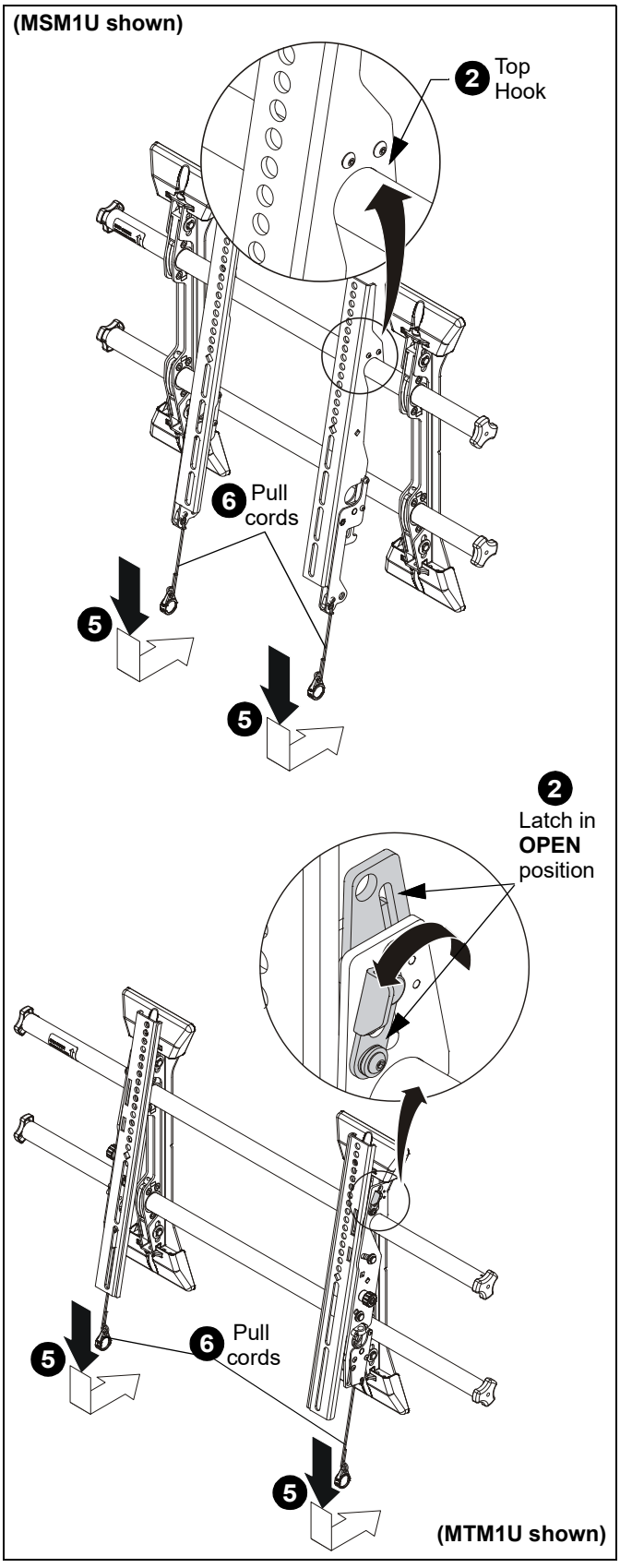


Figure 16

Adjustments

Horizontal Adjustment

1. The mount wall brackets may be adjusted side to side at the point of attachment. (See Figure 17)

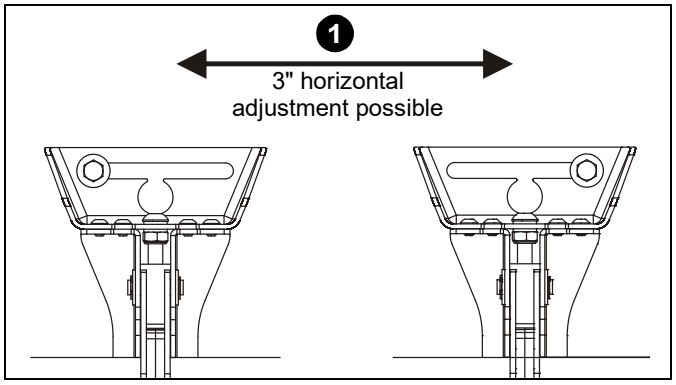


Figure 17

2. The screen may be adjusted along rails side to side.

NOTE: NEVER place both interface brackets (Y and Z or AA and BB) to one side of the wall mount center line! (See Figure 15)

NOTE: Do NOT allow both interface brackets (Y and Z or AA and BB) to be located on same side of wall bracket. (See Figure 15)

3. **(MTM1U / LTM1U only)** Move latch on top of interface brackets to CLOSED position. (See Figure 14)

Roll/Height Adjustment of Wall Brackets

NOTE: The height adjust wall brackets allow adjustment of ± 1/2".

1. Turn to right (tighten) to raise side of screen. (See Figure 18)
2. Turn to left (loosen) to lower side of the screen.

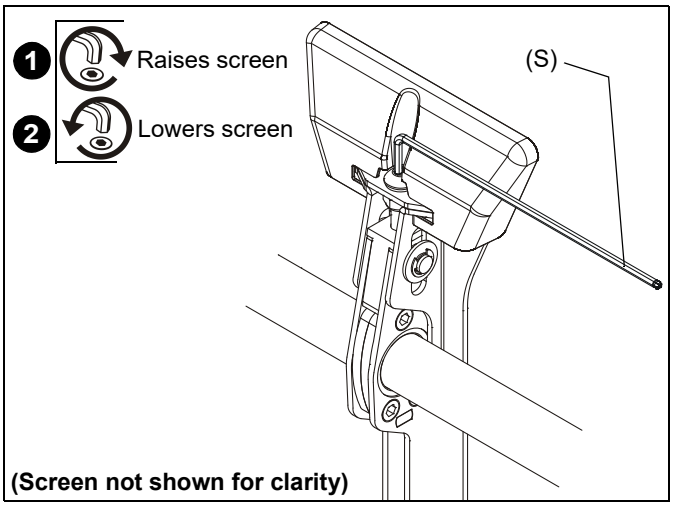


Figure 18

Tilt (MTM1U / LTM1U Only)

The interface brackets (AA and BB) allow from -2° to 12° tilt, and can be locked at 0°, 6° and 12°.

1. Loosen the interface bracket knob.
2. Adjust tilt as required. (See Figure 19)
3. The tilt may be locked at 0°, 6° or 12° using one 1/4-20 x 1" round head carriage bolt (V) and one 1/4-20 hex nut (W) per interface bracket. (See Figure 19)
4. Tighten interface bracket knob as necessary.

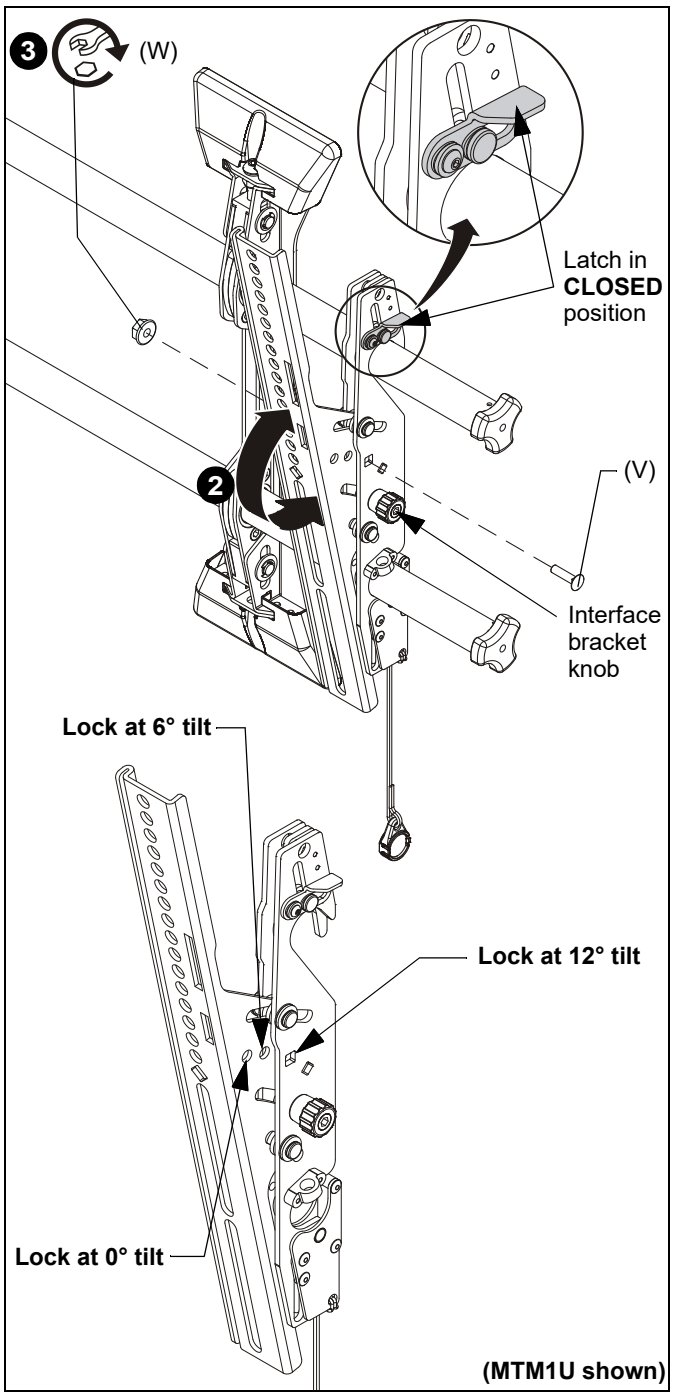


Figure 19

Locking Screen Interface Brackets (Optional)

1. Lock screen interface brackets onto mount rails using one 3/8-16 x 3/4" set screw (U) on each interface bracket. (See Figure 20)

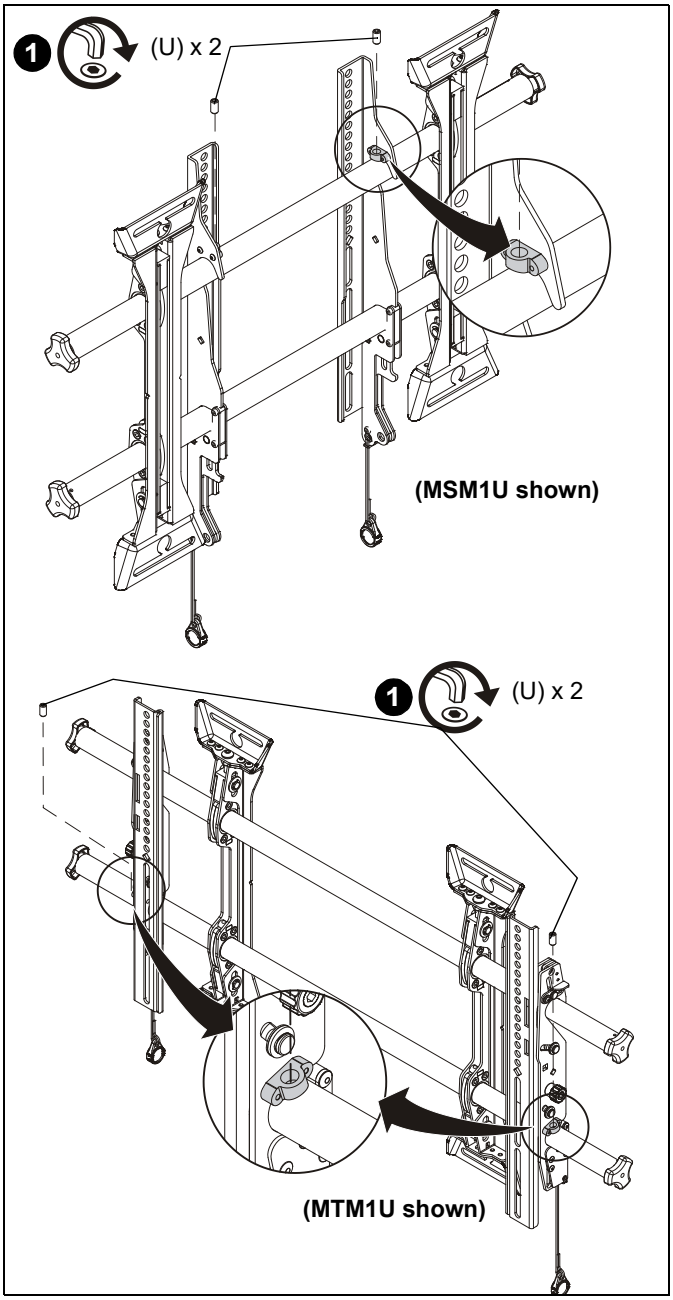


Figure 20

Locking Mount (Optional)

1. Add padlock (not included) to interface bracket to complete security. (See Figure 21)

NOTE: The padlock maximum shackle diameter is 5/16" (7.9 mm).

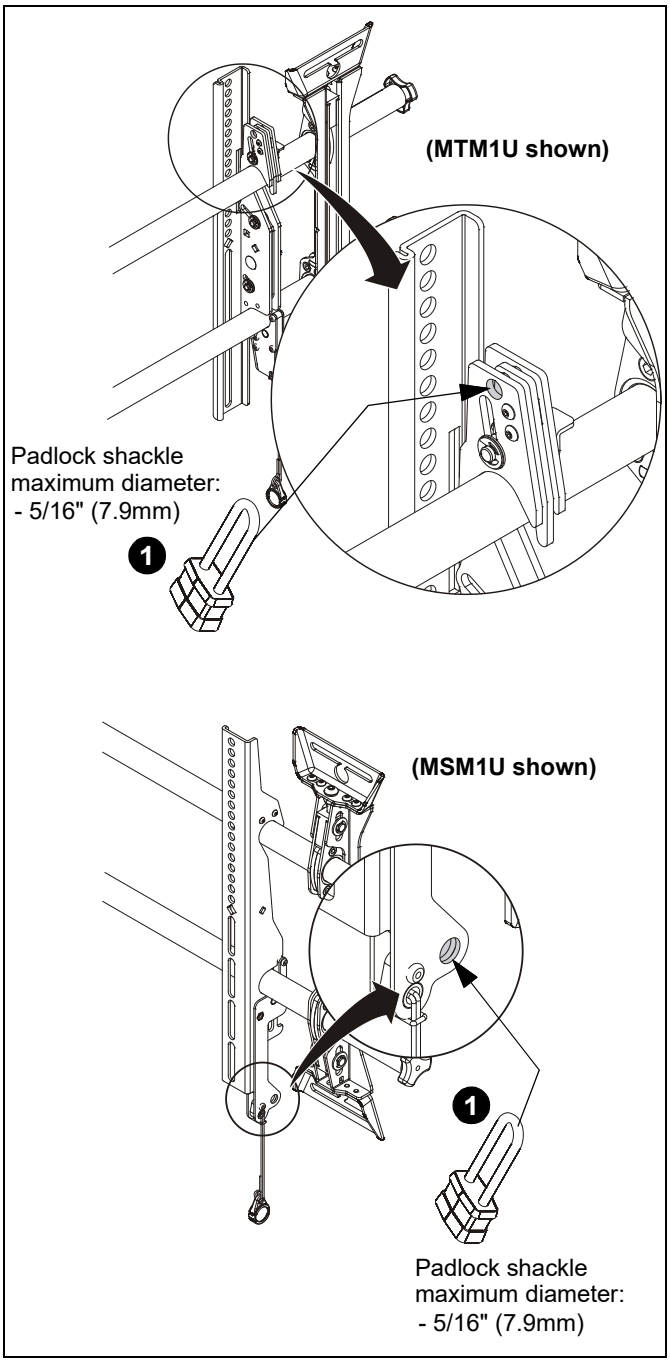


Figure 21

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