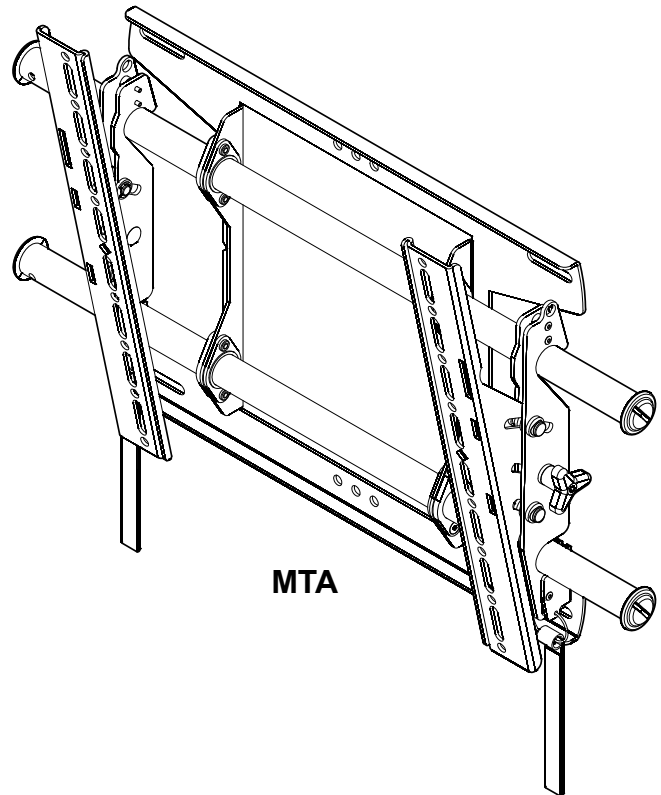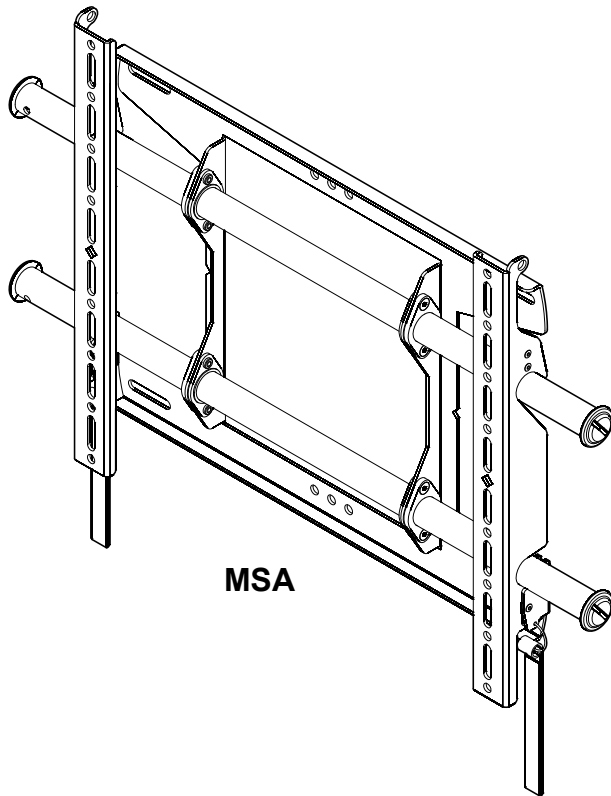# INSTALLATION INSTRUCTIONS

MSA

MTA

MEDIUM FLAT PANEL MOUNT

For SunBriteTV models 4707TSP, 5507TSP, 4707ESTP, 5507ESTP

SunBriteTV   SB-WM47PNA

DISCLAIMER

Milestone AV Technologies, and its affiliated corporations and subsidiaries (collectively "Milestone"), intend to make this manual accurate and complete. However, Milestone makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Milestone makes no representation of warranty, expressed or implied, regarding the information contained herein. Milestone assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

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⚠ IMPORTANT WARNINGS AND CAUTIONS!

⚠ **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.

⚠ **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 components are properly assembled and installed using the instructions provided.
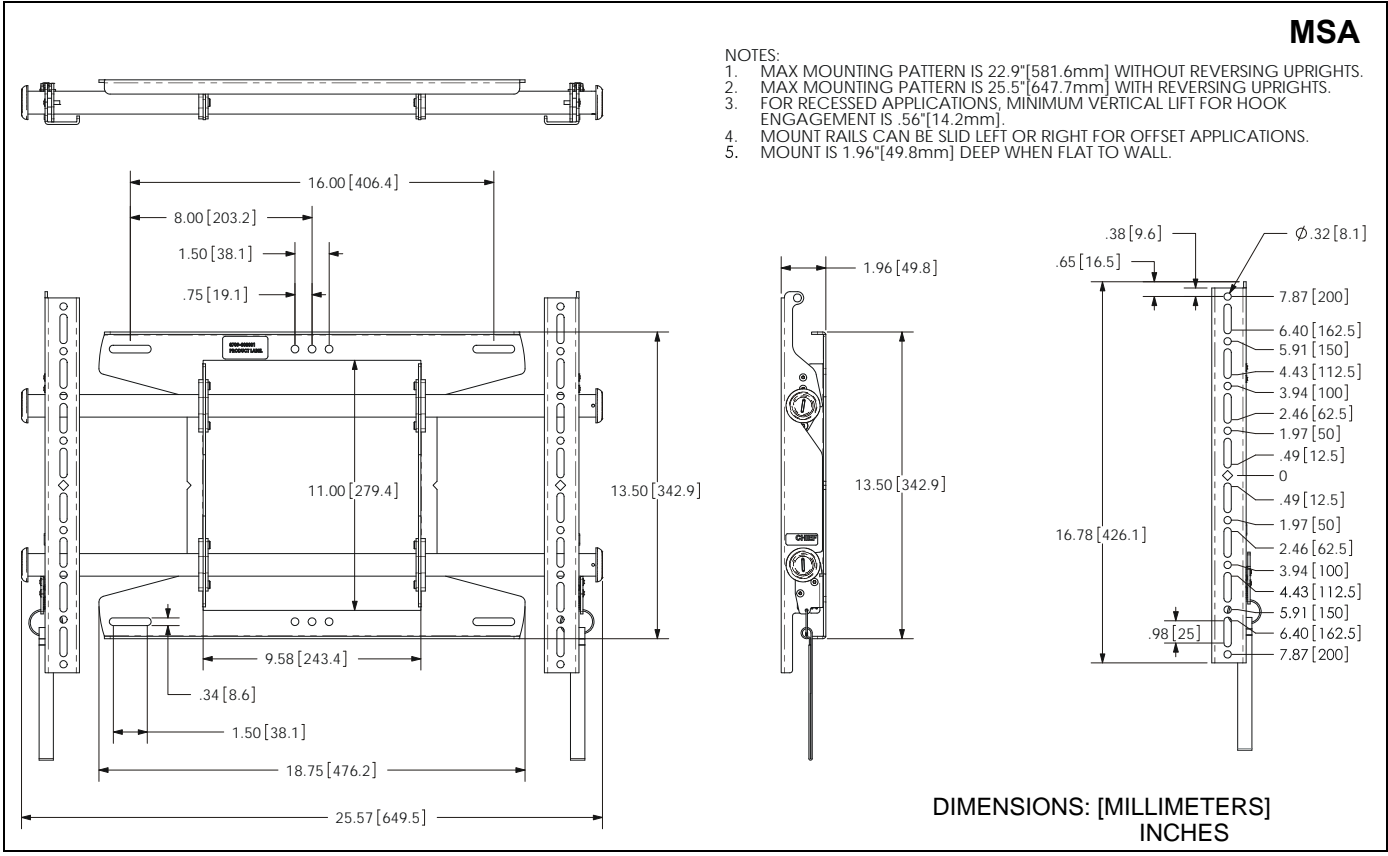
⚠ **WARNING:** Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component. The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm).
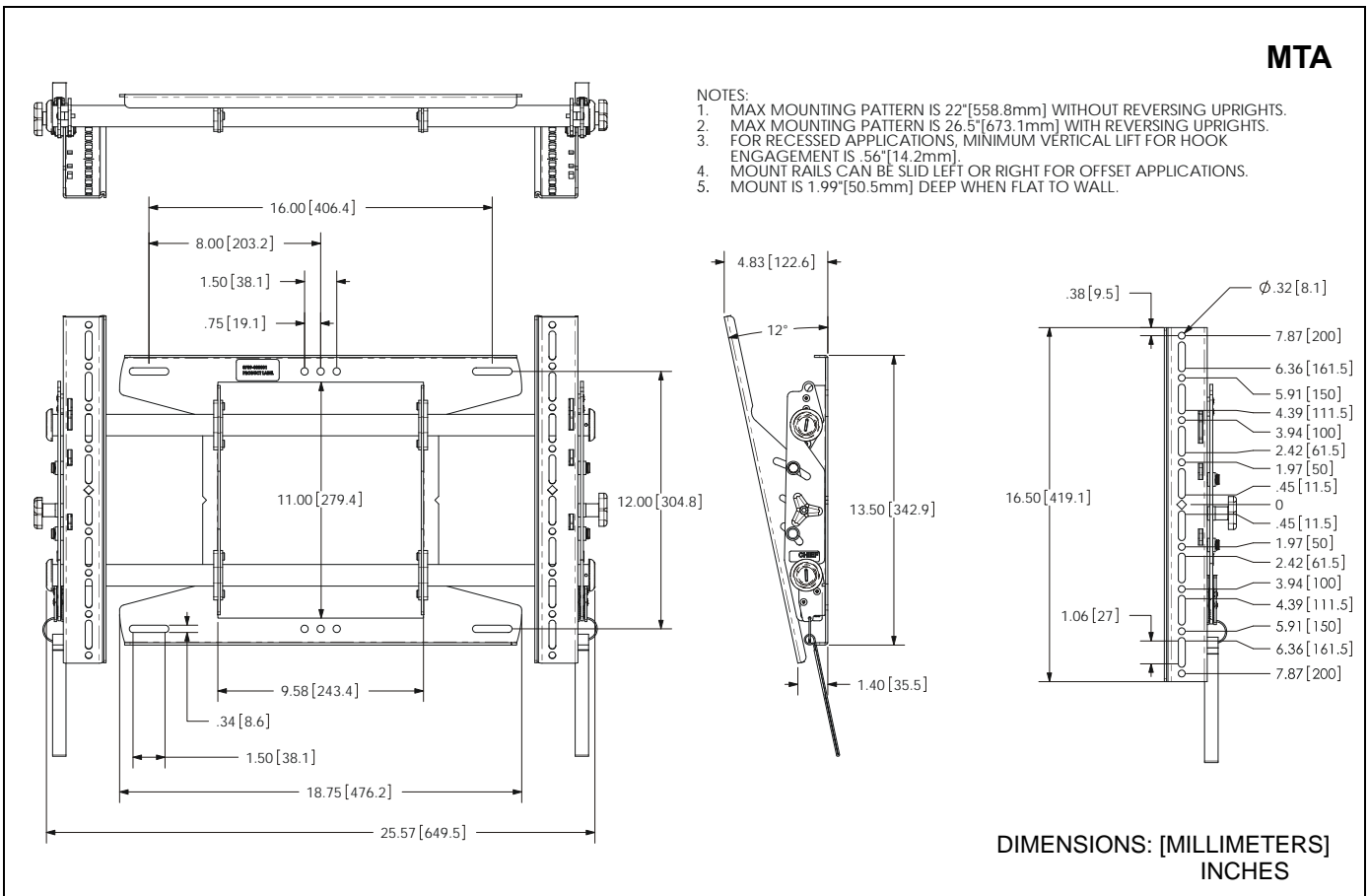
⚠ **WARNING:** Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located between the MSA/MTA up to (and including) the display does not exceed 125 lbs (56.7 kg) for dual stud attachment and concrete, and 75 lbs (34.0 kg) for single stud attachment.
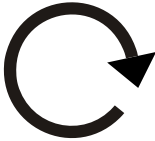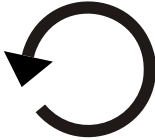
DIMENSIONS

MSA

NOTES:
1.   MAX MOUNTING PATTERN IS 22.9"[581.6mm] WITHOUT REVERSING UPRIGHTS.
2.   MAX MOUNTING PATTERN IS 25.5"[647.7mm] WITH REVERSING UPRIGHTS.
3.   FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK
     ENGAGEMENT IS .56"[14.2mm].
4.   MOUNT RAILS CAN BE SLID LEFT OR RIGHT FOR OFFSET APPLICATIONS.
5.   MOUNT IS 1.96"[49.8mm] DEEP WHEN FLAT TO WALL.

16.00 [406.4]
8.00 [203.2]
1.50 [38.1]
.75 [19.1]
1.96 [49.8]
.38 [9.6]
∅ .32 [8.1]
.65 [16.5]
7.87 [200]
6.40 [162.5]
5.91 [150]
4.43 [112.5]
3.94 [100]
2.46 [62.5]
1.97 [50]
.49 [12.5]
0
.49 [12.5]
1.97 [50]
2.46 [62.5]
3.94 [100]
4.43 [112.5]
5.91 [150]
6.40 [162.5]
7.87 [200]
11.00 [279.4]
13.50 [342.9]
13.50 [342.9]
16.78 [426.1]
.98 [25]
9.58 [243.4]
.34 [8.6]
1.50 [38.1]
18.75 [476.2]
25.57 [649.5]

DIMENSIONS: [MILLIMETERS]
INCHES

MTA

NOTES:
1.   MAX MOUNTING PATTERN IS 22"[558.8mm] WITHOUT REVERSING UPRIGHTS.
2.   MAX MOUNTING PATTERN IS 26.5"[673.1mm] WITH REVERSING UPRIGHTS.
3.   FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK
     ENGAGEMENT IS .56"[14.2mm].
4.   MOUNT RAILS CAN BE SLID LEFT OR RIGHT FOR OFFSET APPLICATIONS.
5.   MOUNT IS 1.99"[50.5mm] DEEP WHEN FLAT TO WALL.

16.00 [406.4]
8.00 [203.2]
1.50 [38.1]
.75 [19.1]
4.83 [122.6]
12°
.38 [9.5]
∅ .32 [8.1]
7.87 [200]
6.36 [161.5]
5.91 [150]
4.39 [111.5]
3.94 [100]
2.42 [61.5]
1.97 [50]
.45 [11.5]
0
.45 [11.5]
1.97 [50]
2.42 [61.5]
3.94 [100]
4.39 [111.5]
5.91 [150]
6.36 [161.5]
7.87 [200]
11.00 [279.4]
12.00 [304.8]
13.50 [342.9]
16.50 [419.1]
1.06 [27]
1.40 [35.5]
9.58 [243.4]
.34 [8.6]
1.50 [38.1]
18.75 [476.2]
25.57 [649.5]

DIMENSIONS: [MILLIMETERS]
INCHES

LEGEND

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

4

TOOLS REQUIRED FOR INSTALLATION

7/32" (5.5mm) Wood Stud
5/16" (7.9mm) Concrete

#2

M5
(included)

1 2 3 4 5

PARTS

[A-N used on MSAU/MTAU Models Only]

A (8)
M4x16mm

B (6)
M4x20mm

C (6)
M4x25mm

D (6)
M5x16mm

E (6)
M5x20mm

F (6)
M5x25mm

G (6)
M6x16mm

H (6)
M6x25mm

R (1)

I (6)
M8x20mm

J (6)
M8x30mm

K (4)
M8x50mm

[Included with MSA6XXX/MTA6XXX Models Only]

Custom
MSA6XXX/
MTA6XXX
Hardware

L (8)
.750x.323x.250

M (8)
.750x.344x.500

N (8)

P (1)
M5

S (1)
(MTA Only)

T (1)
(MSA Only)

QA (4)
5/16"

QB (4)
5/16"

QC (4)
5/16" x 2-1/2"

U (1)

V (1)

(MSA Only)

W (1)

X (1)

(MTA Only)

INSTALLATION

The MTA and MSA have been designed to be mounted directly onto either a wood stud or concrete wall. The MTA has brackets which allow the TV to be tilted. The MSA has 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 weight of the MSA/MTA not to exceed 125 lbs (56.7 kg) for dual stud attachment, and 75 lbs (34.0 kg) for single stud attachment.

⚠️
WARNING: Proceed to either the **Installing to a Wood Stud Wall** section or the **Installing to a Concrete 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 if using the **single stud installation method**.

NOTE: Use that stud and the stud to either the left or right of it if using the **dual stud installation method**.

3. Line up the notches on mount with center of screen marking to determine vertical center. (See Figure 1)

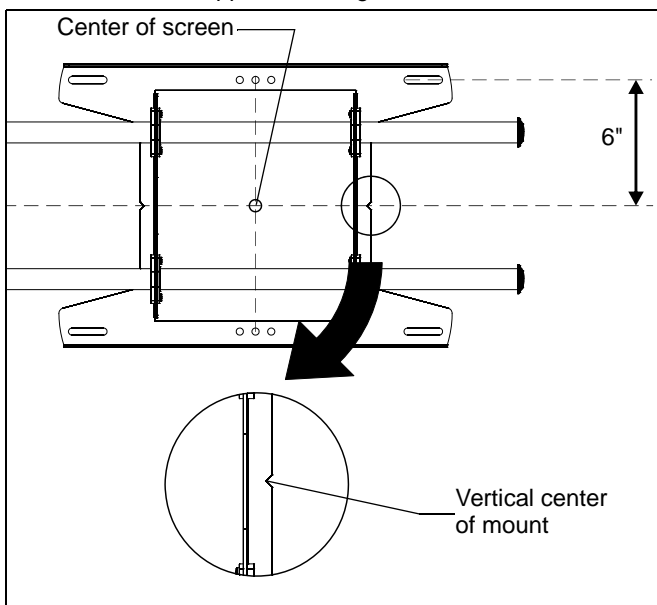4. Measure up 6" (152.4mm) from the center point to mark location of the upper mounting slots.

Figure 1

5. Using a level, mark the wall on each stud to attach the mount through the upper mounting slots. (See Figure 2)

NOTE: The MSA and MTA may be attached through the mounting slots on dual studs, or through the center mounting holes on a single stud. (See Figure 2)
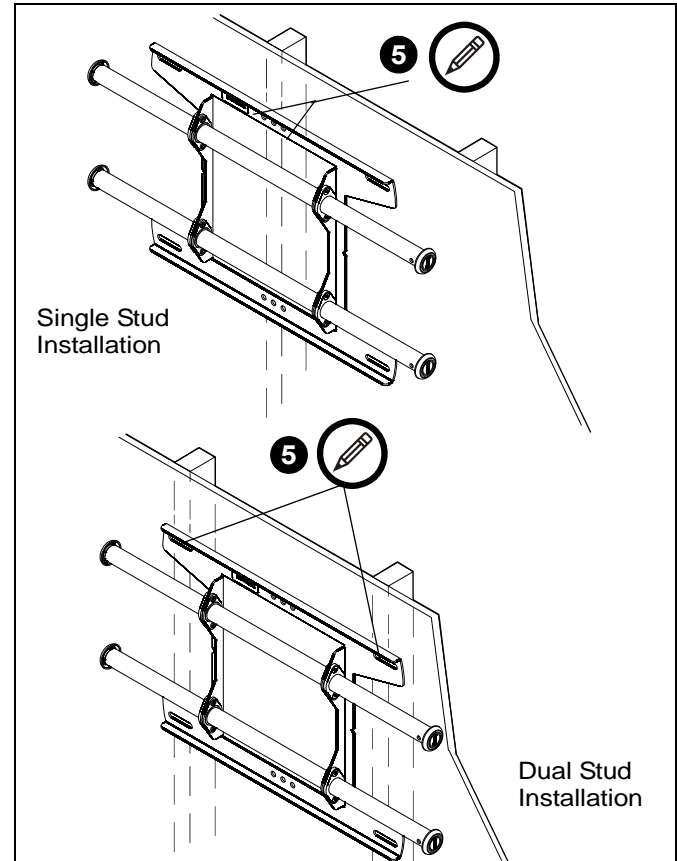

Figure 2

⚠️
WARNING: ELECTRICAL SHOCK HAZARD! CUTTING OR DRILLING INTO ELECTRICAL CORDS OR CABLES CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of electrical wires and cables before drilling or installing fasteners.

⚠️
WARNING: EXPLOSION AND FIRE HAZARD! CUTTING OR DRILLING INTO GAS PLUMBING CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of gas, water, waste, or any other plumbing before cutting, drilling, or installing fasteners.
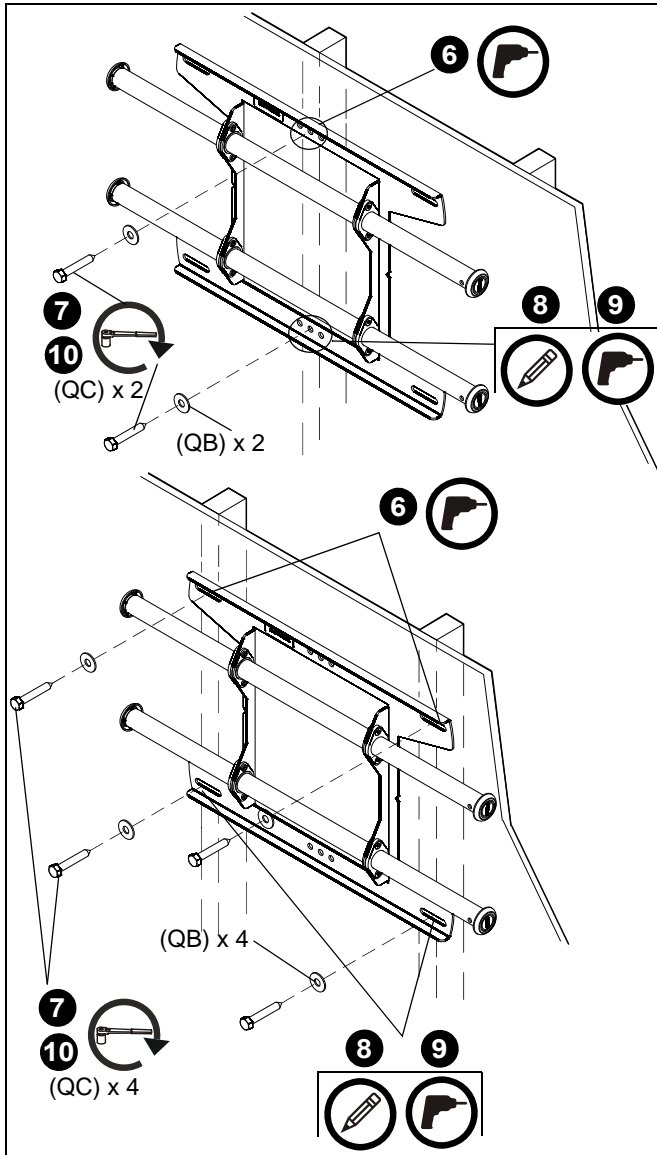
Figure 3

6. Drill one 7/32" (5.5mm) pilot hole in each stud.

7. Use two 5/16 x 2-1/2" lag bolts (QC) and two 5/16" flat washers (QB) [one lag bolt and washer for single stud installation] to attach top of mount to wall. (See Figure 3)

8. Mark the attachment points for the lower mounting slots, making sure the attachment points are located on the studs. (See Figure 3)

9. Drill 7/32" (5.5mm) pilot holes at markings for lower mounting holes. (See Figure 3)

10. Use two 5/16 x 2-1/2" lag bolts (QC) and two 5/16" flat washers (QB) [one lag bolt and washer for single stud installation] to attach the mount to the wall through the lower mounting holes. (See Figure 3)

11. Slide rails to approximate center of screen location.

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 with center of screen marking to determine vertical center. (See Figure 1)

3. Measure up 6" (152.4mm) 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 4)

⚠ **WARNING:** ELECTRICAL SHOCK HAZARD! CUTTING OR DRILLING INTO ELECTRICAL CORDS OR CABLES CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of electrical wires and cables before drilling or installing fasteners.

⚠ **WARNING:** EXPLOSION AND FIRE HAZARD! CUTTING OR DRILLING INTO GAS PLUMBING CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of gas, water, waste, or any other plumbing before cutting, drilling, or installing fasteners.
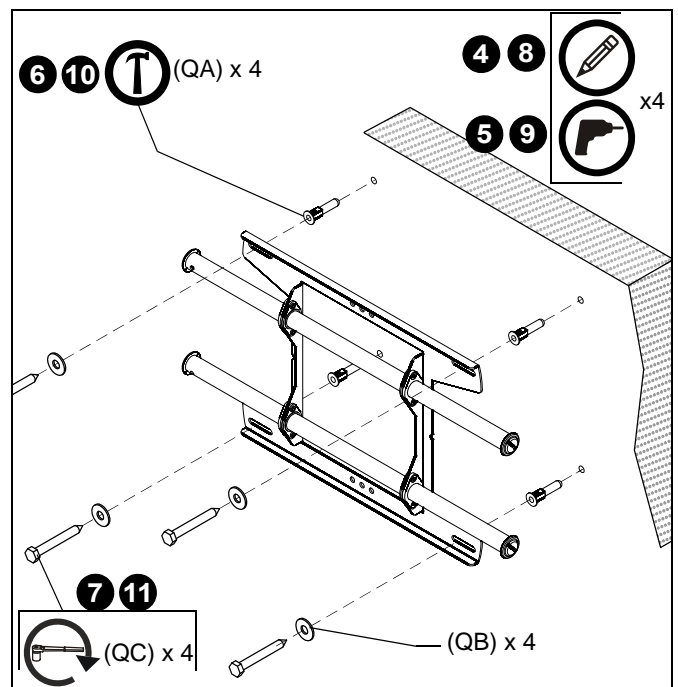

Figure 4

5. Drill one 5/16" (7.9mm) pilot hole at each marking.

6. Install an anchor (QA) into each pilot hole using a hammer.

7. Use two 5/16 x 2-1/2" lag bolts (QC) and two 5/16" flat washers (QB) to attach top of mount to anchors in wall.

8. Mark the attachment points for the lower mounting slots. (See Figure 4)

9. Drill one 5/16" (7.9mm) pilot hole at each marking for lower mounting holes. (See Figure 4)

10. Install an anchor (QA) into each pilot hole using a hammer.

7

11. Use two 5/16 x 2-1/2" lag bolts (QC) and two 5/16" flat washers (QB) to attach the mount to the wall through the lower mounting holes. (See Figure 4)

12. Slide rails to approximate center of screen location.

Attaching Interface Brackets to TV

1. Align the center of the bracket with center of screen. (See Figure 4)

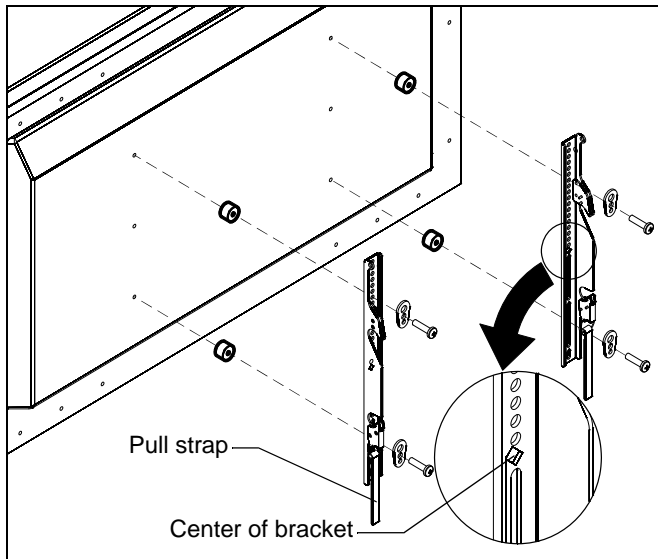**NOTE:** The diamond-shape hole in the bracket corresponds to the center of the mount.

Pull strap

Center of bracket

Figure 5

⚠ **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, spacers (if necessary) and washers from the hardware bag (A-N) and attach brackets to back of screen. (See Figure 5)

Switching Interface Brackets (Optional)

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

1. The wall bracket may be adjusted side to side at the points of attachment. (See Figure 6)

2. The location of the left and right interface brackets may be switched, with the knobs on the MTA interface brackets facing the inside of the mount. (See Figure 6)
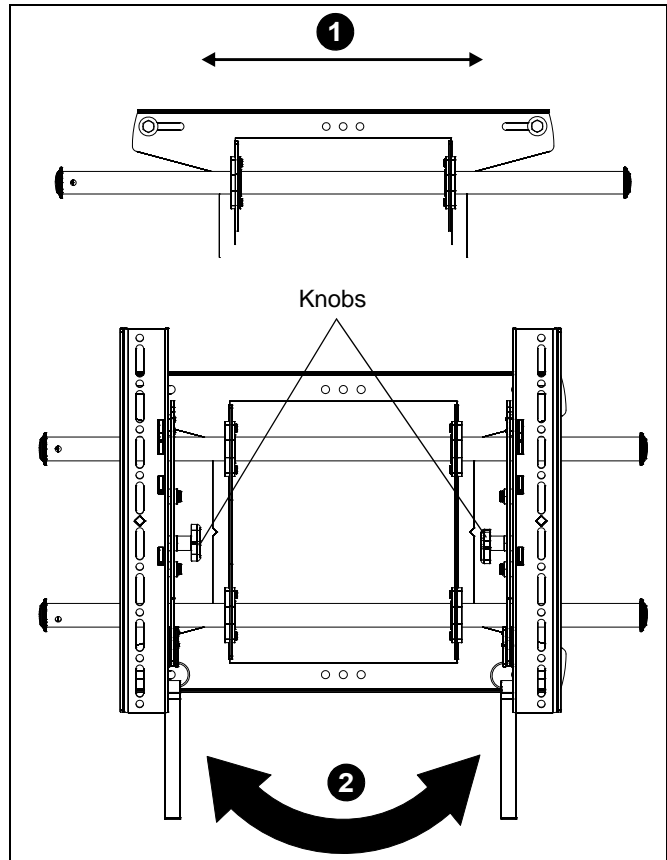

Knobs

Figure 6

3. If necessary, the tilt interface bracket knobs may be switched to allow the interface brackets to be reversed. (See Figure 7)

   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, washer and screw.

   e. Replace the knob, washer 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.

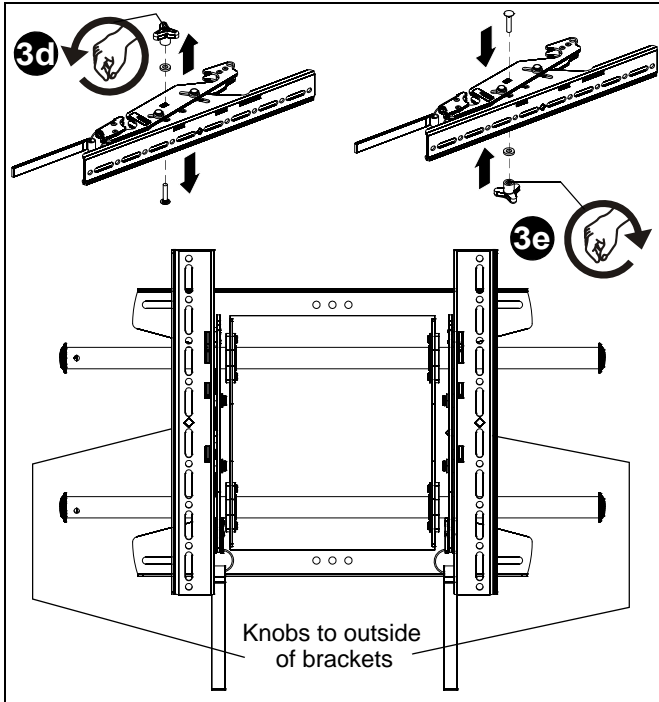   g. Repeat Steps 3c through 3f with the left interface bracket.

Figure 7

Attaching Screen to Wall Mount

1. Adjust Velcro® pull strap (if necessary) so it does not extend beyond bottom of screen. (See Figure 8)

NOTE: Do NOT allow both interface brackets to be located on same side of wall bracket. (See Figure 8)

NOTE: NEVER place both interface brackets to one side of the wall mount center line! (See Figure 8)
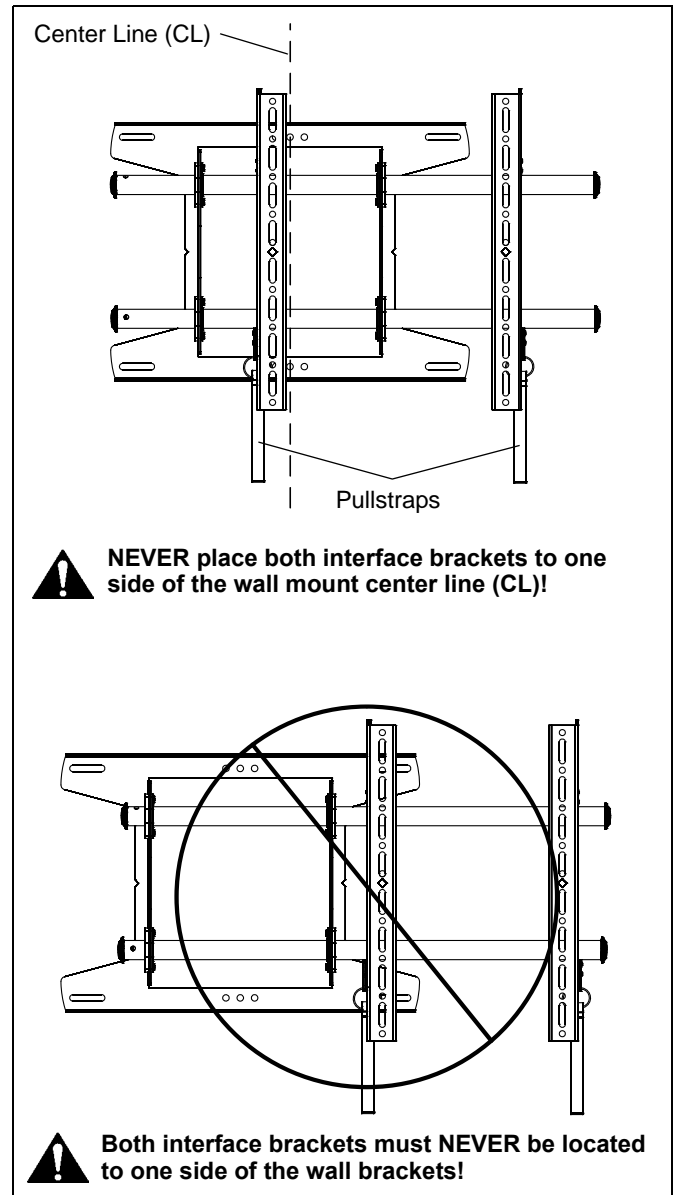

Figure 8

2. Hang top hook of interface brackets onto the top bar of the mount. (See Figure 9)

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

3. Slide screen and bars to desired viewing position.

4. Route cables between wall and bars.

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

5. Pull downward on the pullstraps and swing inward toward wall, latching interface brackets to lower bar and locking bottom of screen to the mount. (See Figure 9)
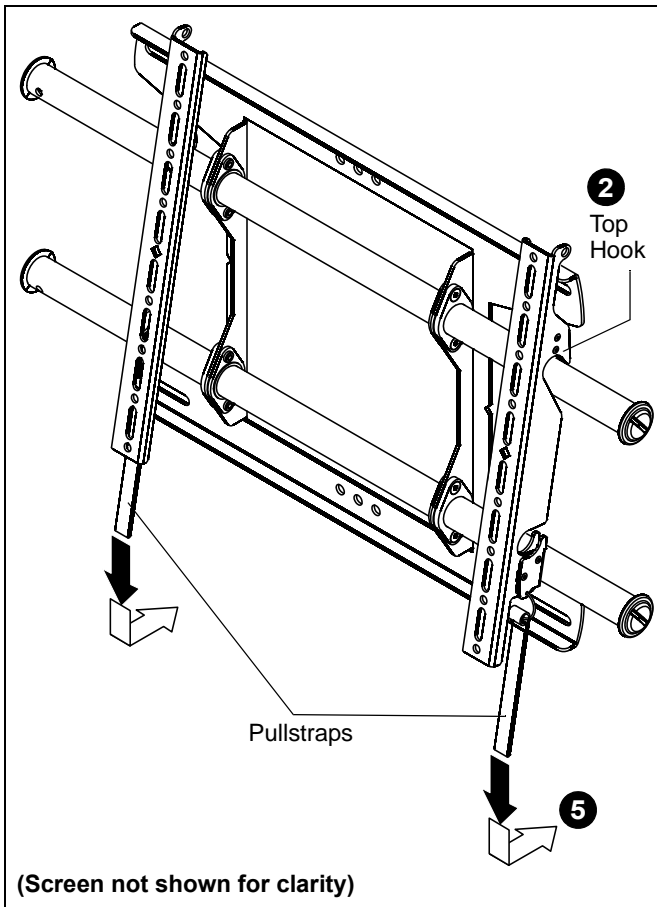

2
Top
Hook

Pullstraps

5

(Screen not shown for clarity)

Figure 9

Locking Mount (Optional)

1. Add optional security bracket (S or T) to the mount. (See Figure 10)
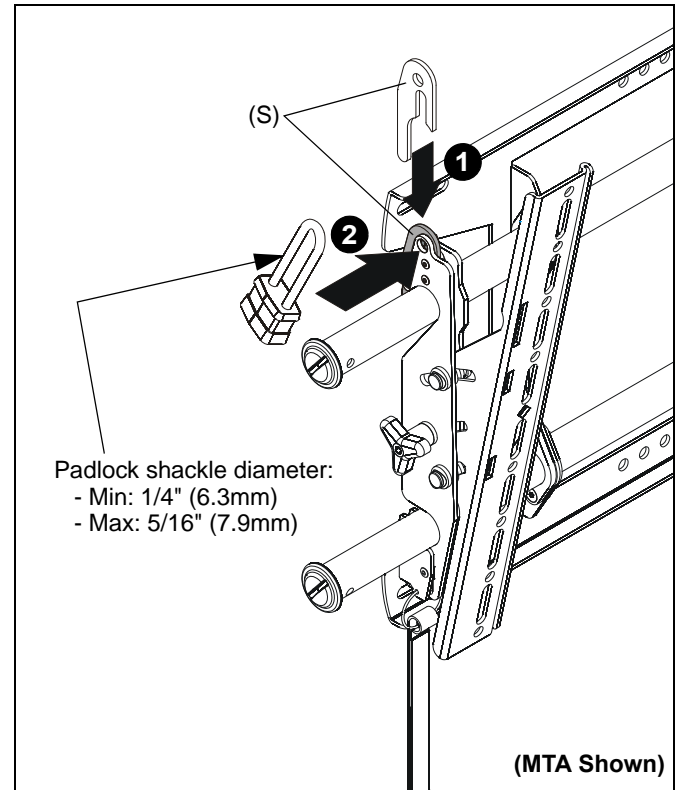
2. Add padlock (not included) to complete security.

(S)

1

2

Padlock shackle diameter:
 - Min: 1/4" (6.3mm)
 - Max: 5/16" (7.9mm)

(MTA Shown)

Figure 10