PLANAR

VMT-MXL

998-0368-00

Pop Out Video Wall Mount Installation Guide
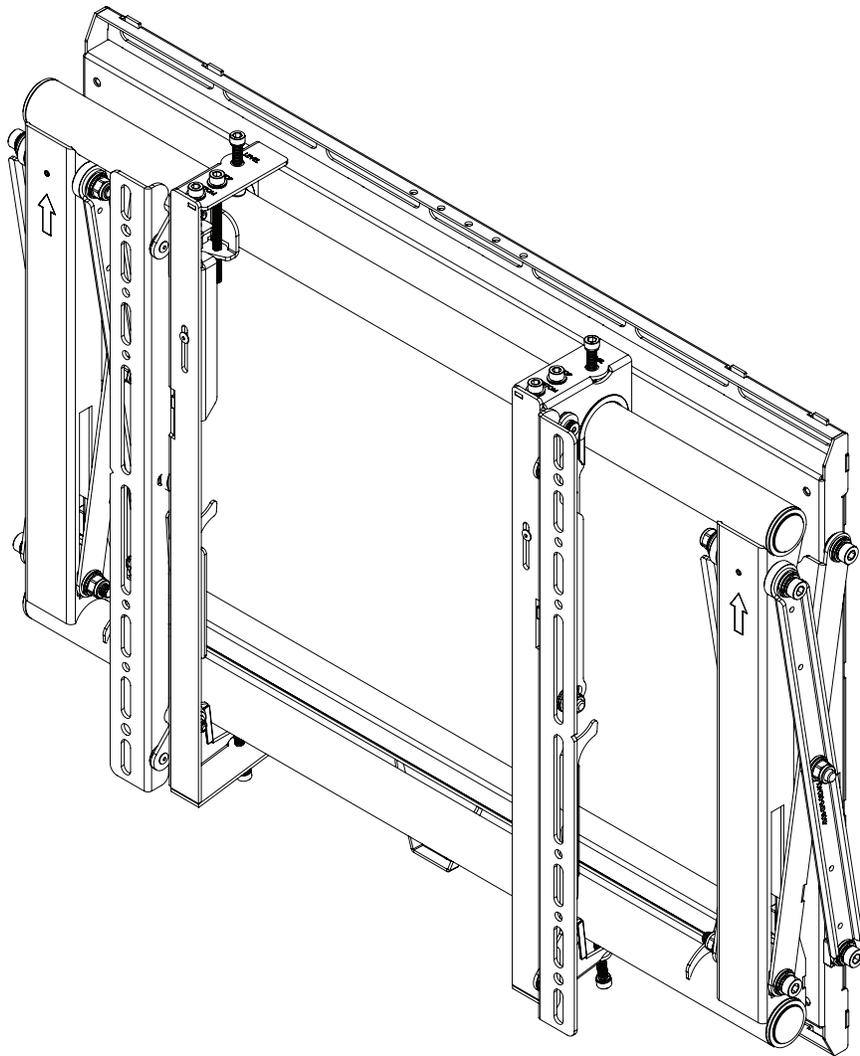
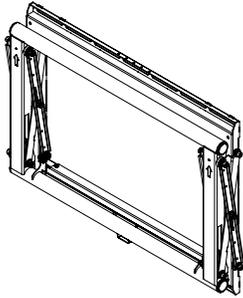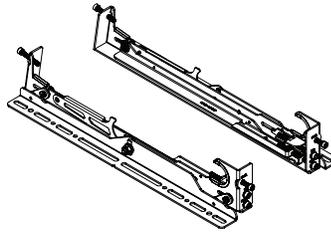## Included Components

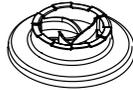Maximum Flat Panel Weight:
160 lb. / 72.57 kg.
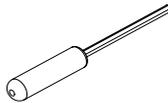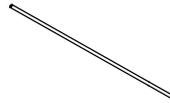
Wall Mount
(Qty 1)

Bracket
(Qty 1 Pair)

5/16" Flat Washers
(Qty 4)

Universal Spacers
(Qty 8)

M5 Allen Driver
(Qty 1)

Thread Depth Indicator
(Qty 1)

Universal Washers
(Qty 4)

5/16" x 3" Lag Bolts
(Qty 4)

Finned Anchors
(Qty 4)

M4 x 12mm   (Qty 4)

M4 x 16mm   (Qty 4)

M4 x 25mm   (Qty 4)

M6 x 12mm   (Qty 4)

M6 x 16mm   (Qty 4)

M6 x 25mm   (Qty 4)

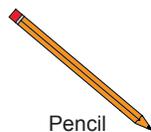M8 x 12mm   (Qty 4)

M8 x 16mm   (Qty 4)

M8 x 25mm   (Qty 4)

Required for installation

Electronic Stud Finder

Pencil

Protective Eyewear

M6 or 1/4" Drill Bit

3/8" Masonry Drill Bit

Level

13mm or 1/2" Socket
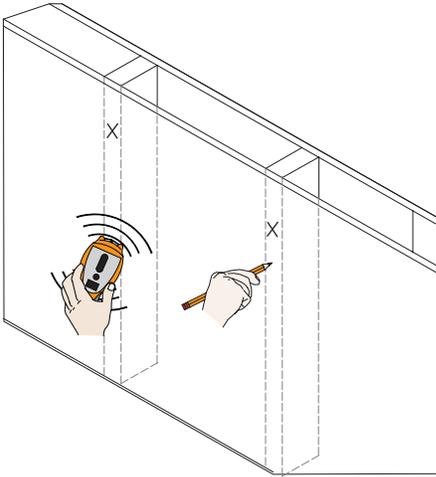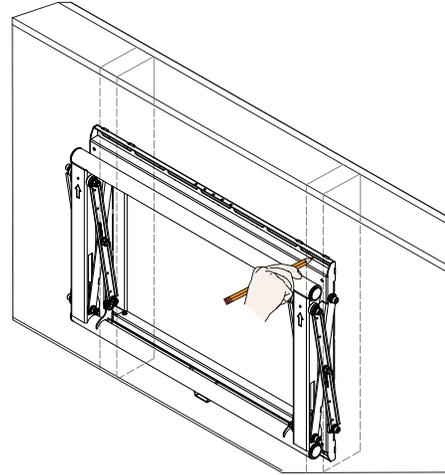
Phillips Head Screwdriver

Socket Wrench

Portable Drill

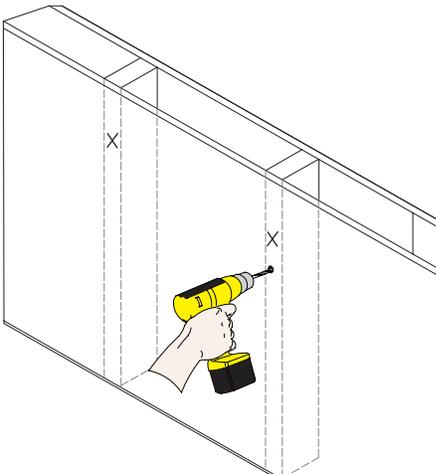# PLANAR

Wood Stud Installation

1

1. Use a stud finder to determine the wall studs in the vicinity of the mount.
2. Use a pencil to mark each of the wall studs.

2

Use a pencil to mark the upper right mounting location of the wall stud.

3

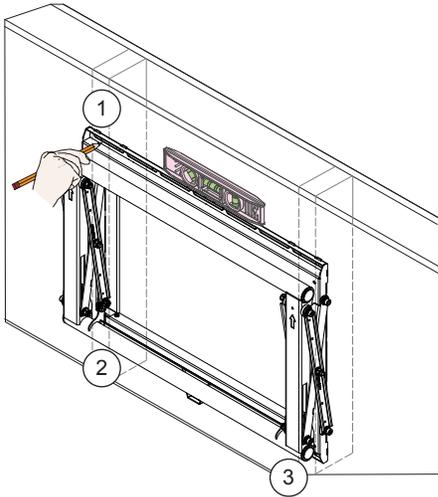Drill a pilot hole using a M6 or 1/4" drill bit on the stud that was marked on the upper right.

4
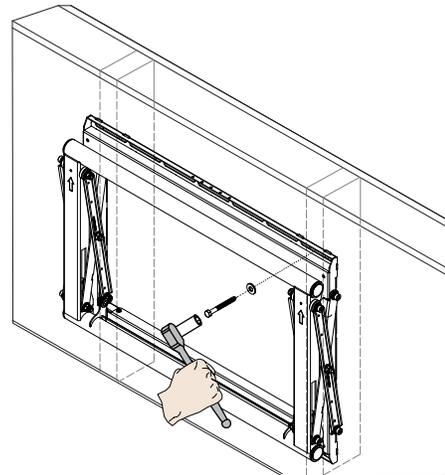
1. Place the mount against the wall and align it with the pilot hole.
2. Insert one (1) 5/16" x 3" lag bolt one (1) 5/16" washer into the upper right pilot hole.
3. Use a socket wrench and a 1/2" socket to tighten the lag bolt.
4. Do not over tighten the lag bolt.

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5

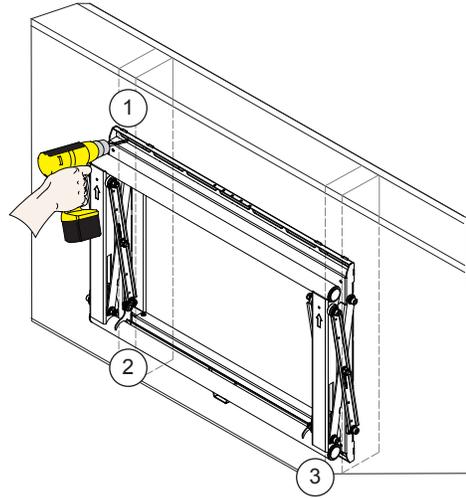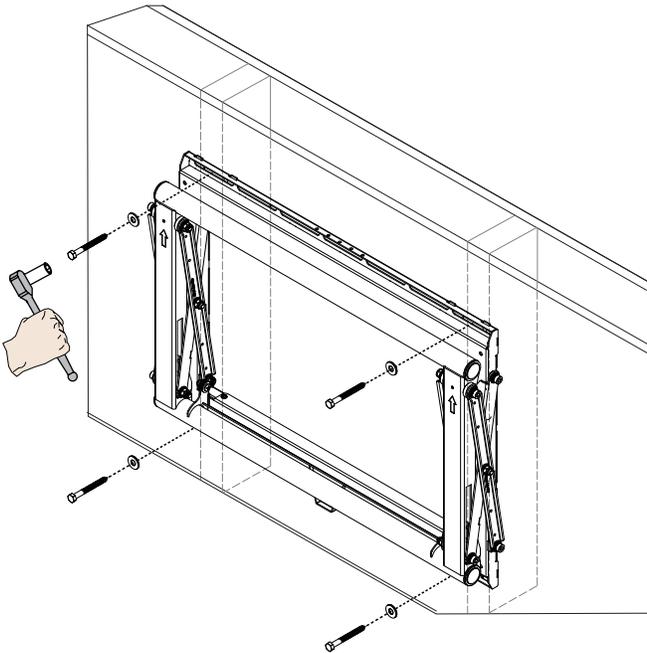1. Level the mount
2. Use a pencil to mark the remaining three (3) mounting locations

6

Drill a pilot hole in each of the three (3) marks with a power drill and a M6 or 1/4" drill bit.

7

1. Insert one (1) 5/16" x 3" lag bolt and one (1) 5/16" washer into each pilot hole.
2. Tighten all lag bolts using a socket wrench and 1/2" socket.
3. Do not over tighten the lag bolts

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Concrete Wall Installation

8

Two people recommended for this step; one person to level the mount and another person to mark the mounting locations.

9
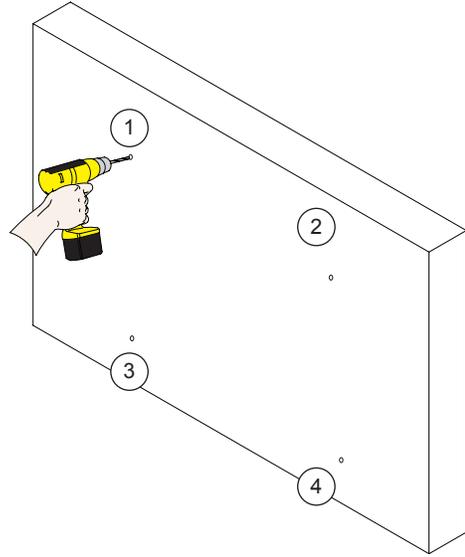
Drill a pilot hole in each of the four (4) mark areas with a 3/8" masonry drill bit.

10
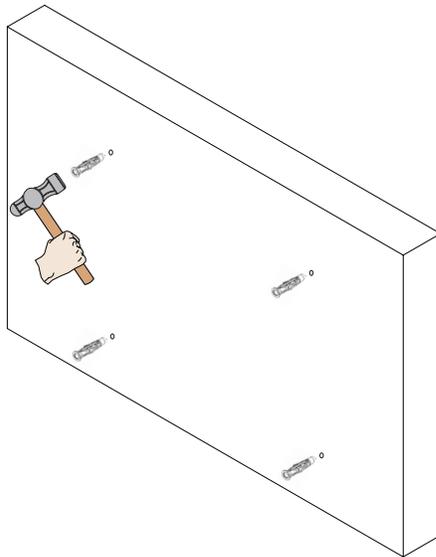
Insert the Finned anchors into each pilot holes. Lightly tap each Finned anchors into place with a hammer.
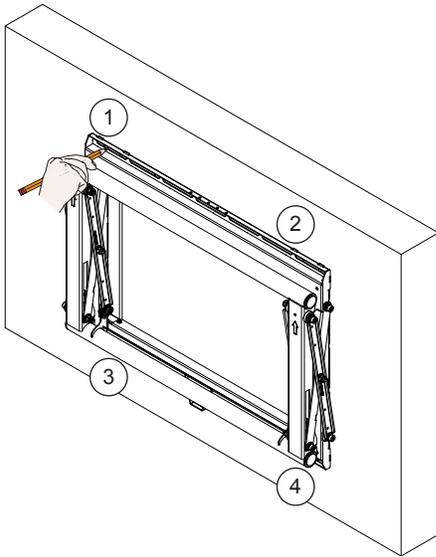
11

1. Insert one (1) 5/16" x 3" Lag Bolt and one (1) 5/16" washer into each pilot holes.
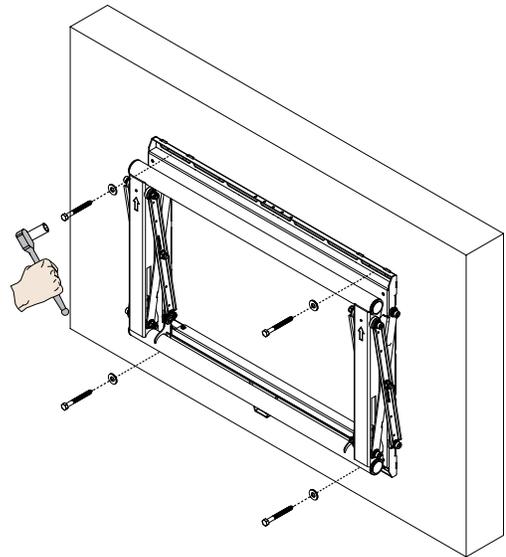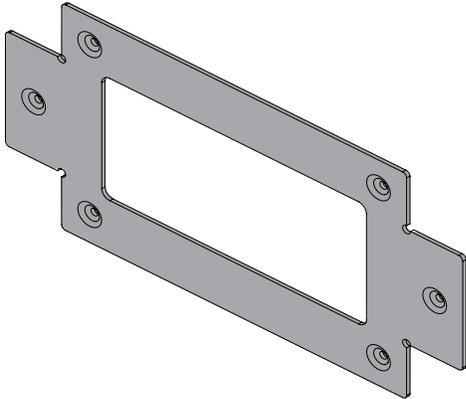2. Tighten all lag bolts using a socket wrench and 1/2" socket.

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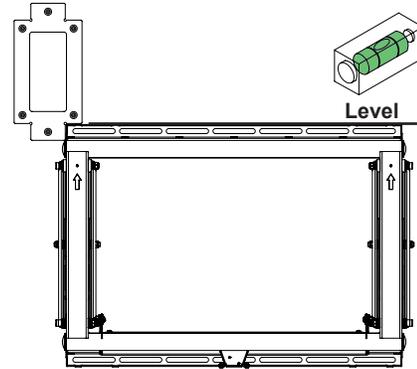## Installing OPTIONAL Model Specific Spacers

12

For ease of installation

Model-specific spacers are availible for most flat-panel displays. Engineered with the intent of significantly reducing installation tim on large video wall array. Contact Customer Service to inquire about model specific spacers.
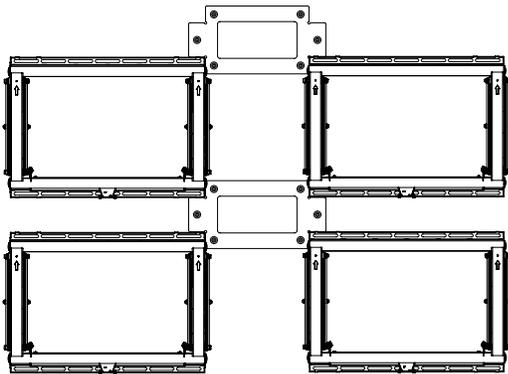
13

Level

1)   Mount the VMT-MXL to the desired location.

2)   Align and Level the spacer to the corner register tabs of the mount.

Use commercially available hardware to secure the spacer. Utilize the same spacer for multiple VMT-MXL installations.

For illustration only. VMT-MXL Spacer will vary.

14

Multiple VMT-MXL mounts can be installed using model specific spacers. Simply repeat step one when installing each of the surrounding VMT-MXL mounts. Use one spacer for each 2x2 installation by mounting it to the wall, or utilize the same spacer as many times needed to complete an unlimited VMT-MXL large matrix video wall.

1.   Plumb and level and mark each corner where the VMT-MXL will be mounted (or secure to the wall).

2.   Install the second mount working in a horizontal direction.

3.   Square, Level, and Plumb.

4.   Repeat this step for each mount horizontally

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Selecting the Mounting Hardware

15
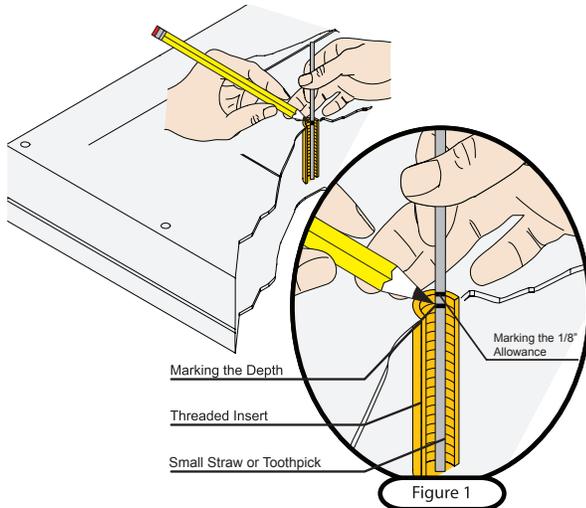
1) Insert a small straw or toothpick into the threaded inserts found on the back of the flat-panel.

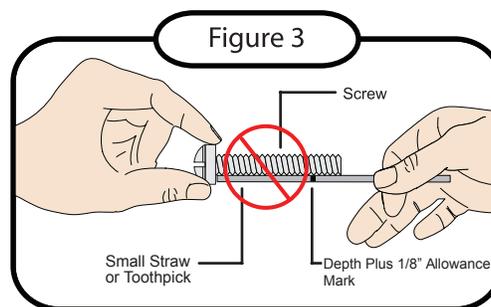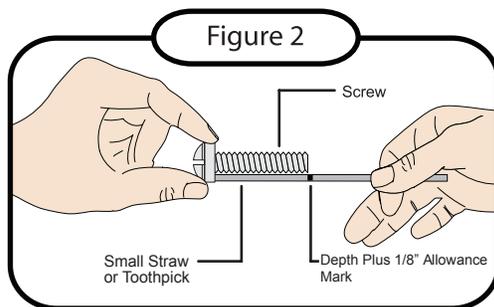2) Use a pencil to mark the depth of the threaded insert on the small straw or toothpick.

3) Mark the straw or toothpick 1/8" above the depth of the threaded insert, as shown in Figure 1.

4) Insert the small straw or toothpick into the remaining threaded inserts to compare and verify their depth using the straw or toothpick's 1/8" allowance mark.

5) Locate the correct diameter screw for the threaded insert.

⚠️ If the selected screw is longer than the 1/8" allowance mark on the small straw or toothpick, as shown in Figure 2 and Figure 3, do not use this screw. The screw length must not bypass the mark.

6) Test each size of the screws provided.

The correct screws should thread easily into the mounting point and not pull out when tension is applied.

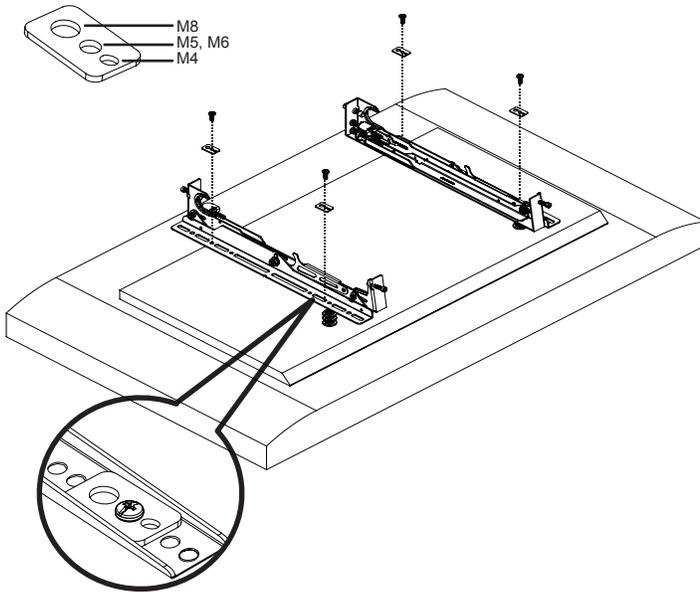Marking the 1/8" Allowance

Marking the Depth

Threaded Insert

Small Straw or Toothpick

Figure 1

Figure 2

Screw

Small Straw or Toothpick

Depth Plus 1/8" Allowance Mark

Figure 3

Screw

Small Straw or Toothpick

Depth Plus 1/8" Allowance Mark

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16 Universal Washer Installation

M8
M5, M6
M4

Universal Washers are designed to accommodate the various M4, M5, M6 and M8 hole sizes required by flat-panels.

1) Place the flat-panel screen-side down on a soft, flat surface.

2) Identify the number and location of the thread inserts on the back of the flat-panel.

3) Aligning the holes on each mounting bracket with the thread inserts on the back of your flat-panel.

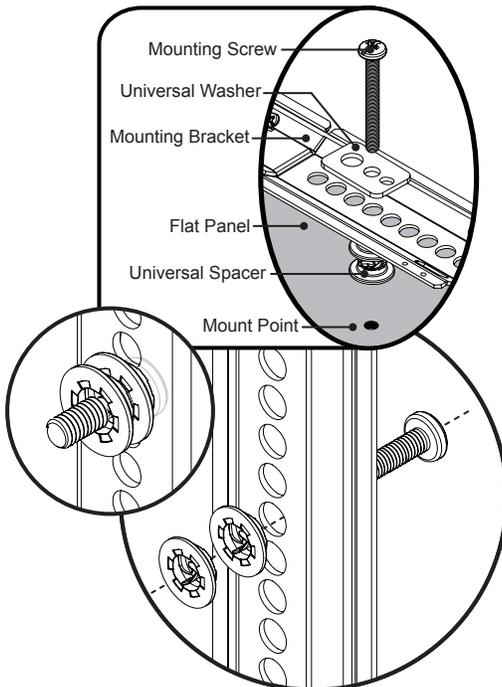4) Secure each mounting bracket to the flat-panel by inserting a minimum of two (2) screws per bracket.

⚠ Do not over tighten the mounting hardware.

Make sure the directional arrows on the mounting brackets are facing up.

17 Universal Spacer Installation

Mounting Screw
Universal Washer
Mounting Bracket
Flat Panel
Universal Spacer
Mount Point

Universal Spacers allow the user to attach the mounting bracket to flat-panels which have recessed or uneven mount points. Each Universal Spacer adds 1/4" to the distance between the mounting bracket and the flat-panel.

⚠ The Universal Spacers must be stacked and oriented as shown.

⚠ The Universal Spacers must only be installed between the mounting bracket and the flat-panel.

PLANAR

18

Attaching the Flat-Panel to the Mount

Mounting bracket adjustments are factory pre-set (see **Note**).

⚠ This section requires two people.

⚠ Do not release your flat-panel until you are certain that top and bottom hooks of both mounting brackets are securely seated on the upper and lower mounting rails of the wall panel.

1) Raise the flat-panel past the top and bottom mounting rails on the wall panel.

2) Slide the flat-panel down slowly, keeping it close to the wall.

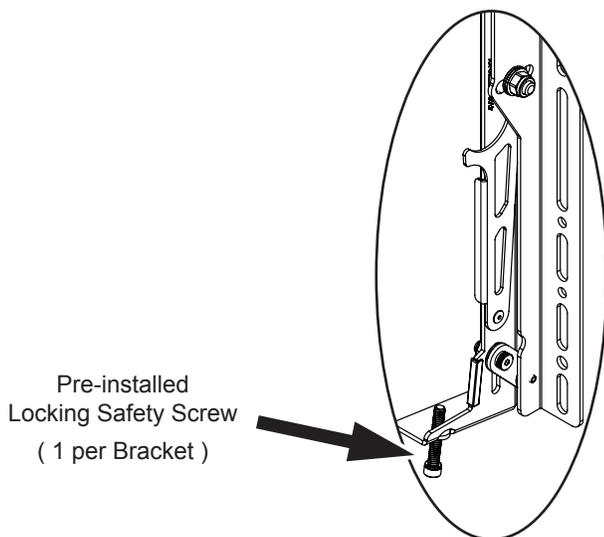3) Engage the top and bottom mounting brackets to the rails of the mount.
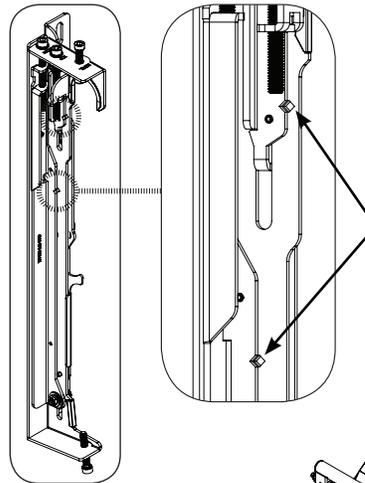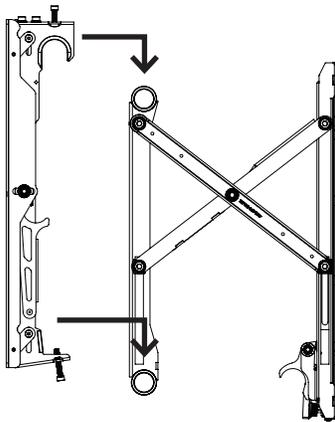
⚠ **Note:** These registers must align prior to installation. They are factory set. Check to determine proper alignment
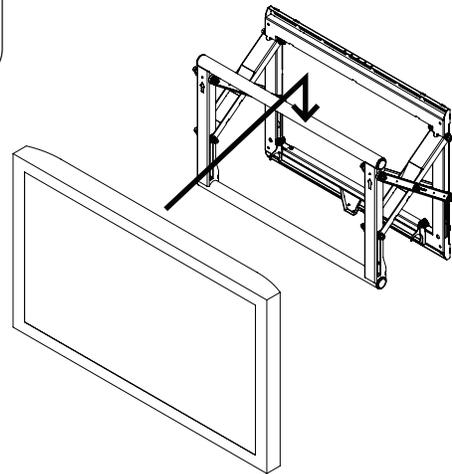
19

Locking Safety Screw Installation

⚠ The locking safety screws keep the flat-panel from being accidently dislodged from the VMT-MXL.

1) Locate the pre-installed security locking safety screw at the bottom of each of the mounting brackets.

2) Use the M5 Allen driver (supplied) to tighten the locking safety screw.

⚠ Do not overtighten the locking safety screws.

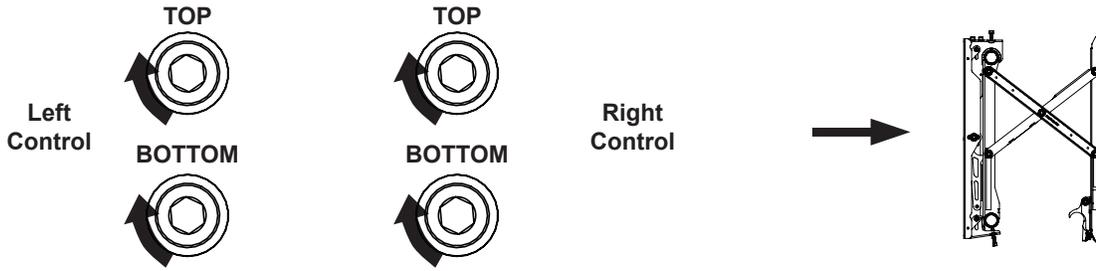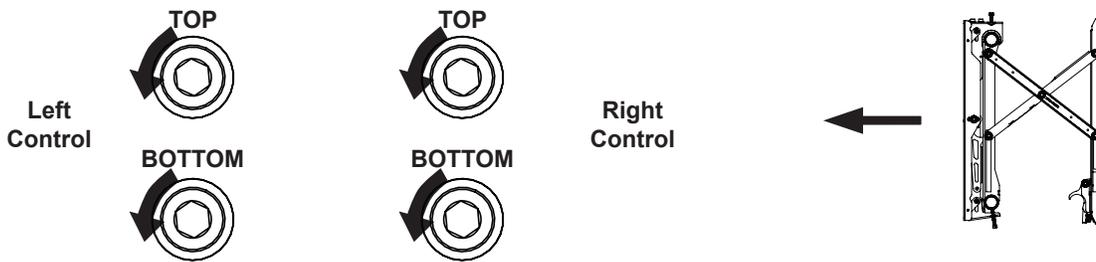**Note: Tighten screw to surface, then tighten 1/4" turn**

Pre-installed
Locking Safety Screw
(1 per Bracket)

⚠ **ONLY TIGHTEN AFTER FINAL ADJUSTMENT**

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998-0368-00 - VMT-MXL
Installation Guide

MOVE INWARD

TOP

TOP

Left
Control

BOTTOM

BOTTOM

Right
Control

MOVE OUTWARD

TOP

TOP

Left
Control

BOTTOM

BOTTOM

Right
Control

TILT UP

TOP

TOP

TOP

TOP

BOTTOM

BOTTOM

**AND/
OR**

BOTTOM

BOTTOM

TILT DOWN

TOP

TOP

TOP

TOP

BOTTOM

BOTTOM

**AND/
OR**

BOTTOM

BOTTOM

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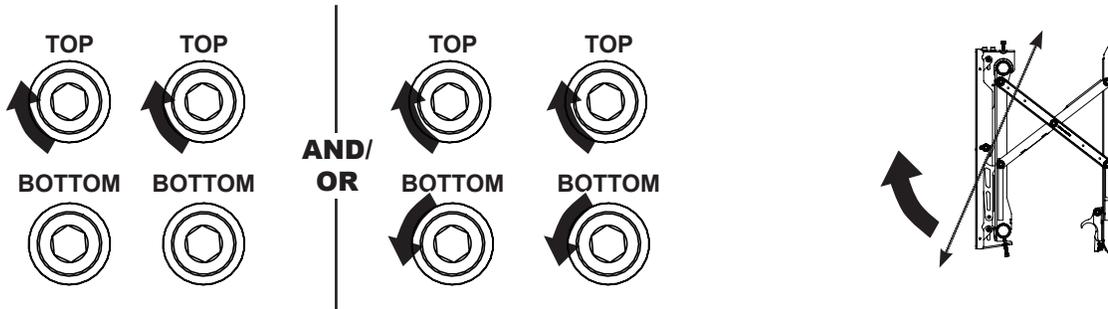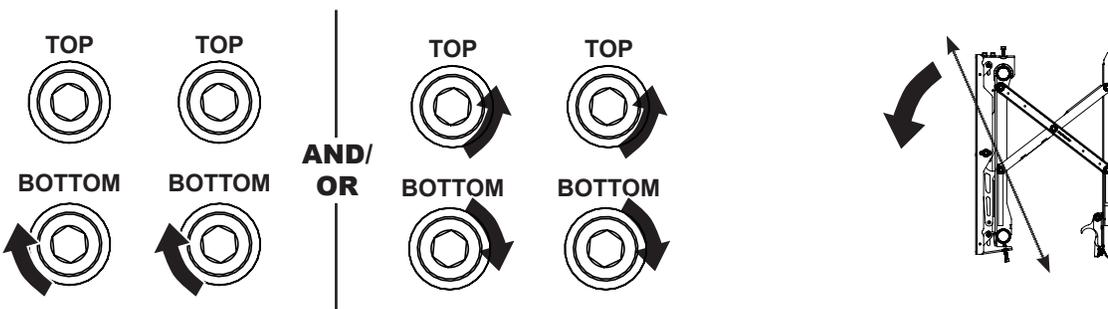
LEVEL UP

Left Control

LEVEL

Right Control
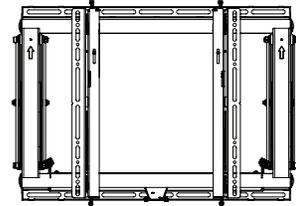
LEVEL

LEVEL DOWN

Left Control

LEVEL

Right Control

LEVEL
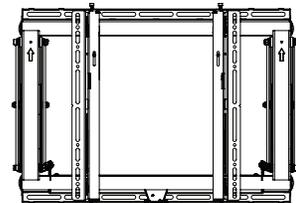
ROTATE LEFT

Left Control

LEVEL

Right Control

LEVEL
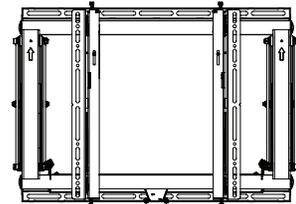
ROTATE RIGHT

Left Control

LEVEL

Right Control

LEVEL

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20

Use the **GAPit GO/No Go Gauge (supplied with model specific spacer)** as a final step in the process to inspect and adjust the gap to **prevent costly replacement** and **extend the lifespan of the displays.**

Damage happens when weight is transferred to the ultra-thin bezels of video wall installations,

if the recommended gap specifications of .050" is not maintained vertically and horizontally.

This results in image distortion, and costly repairs and replacement
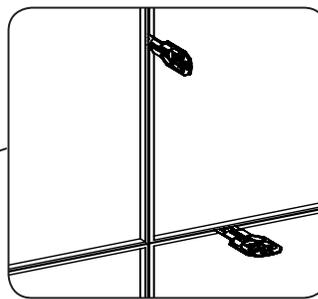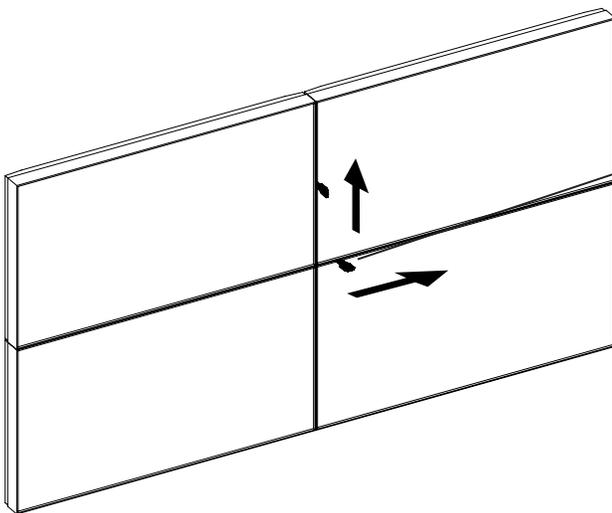
1. Swipe GAPit along vertical gap
2. Inspect for .050" gap & adjust if needed
3. Swipe GAPit along horizontal gap
4. Inspect for .050" gap & adjust if needed

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21 **<u>Servicing</u>**
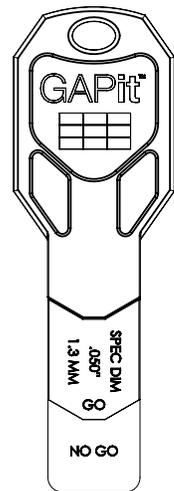
1. Push evenly in the front of the VMT-MXL to release the single latch spring lock (Figure 1).
2. Slowly pull the front of the VMT-MXL to extend the scissor arms (Figure 2).
3. Loosen the locking safety screws on both mounting brackets.
4. Tilt up the bottom of the flat-panel, then set their kickstands against the bottom tubing of the mount (Figures 2 & 3).
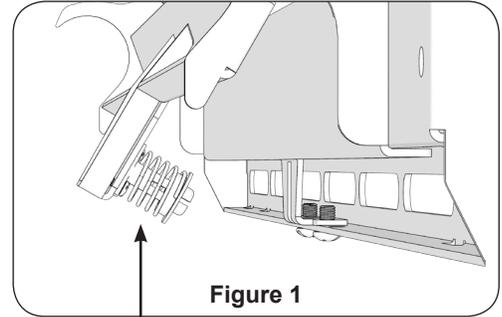5. Perform any neccessary repairs. Close the latch after servicing.
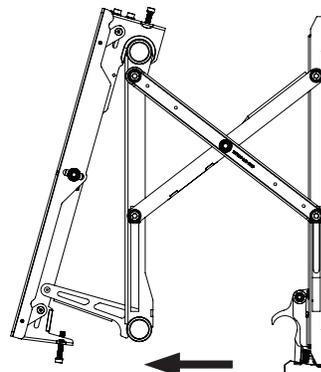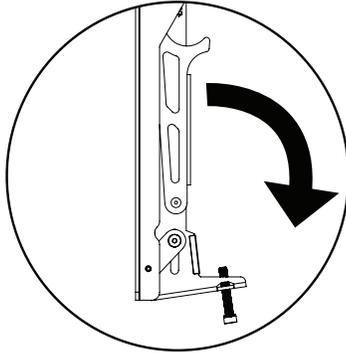

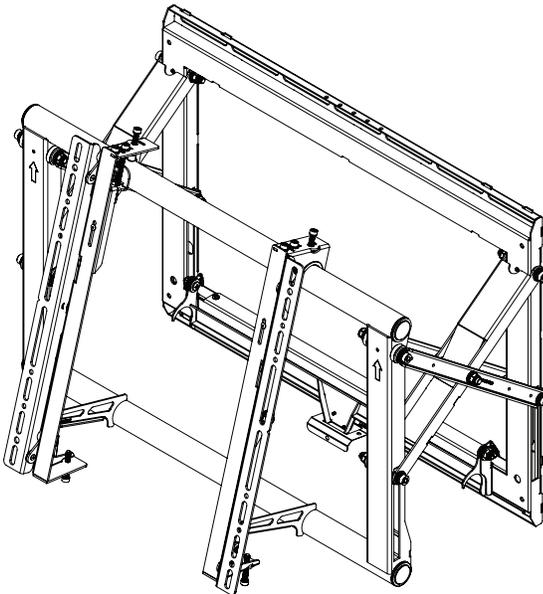**Figure 1**

Single Latch Spring Lock

Figure 2

Figure 3

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