# SmartView™ Mounting Frame

## 3 Wide x 3 Deep Video Wall Display Installation Guide

**WMK-034**

This display kit mounts ViewSonic 46" Video Wall displays in a 3 wide by 3 deep landscape configuration. The frame attaches to a wall and receives the LCD monitors by way of four machined fittings (per monitor) that thread into the monitor's VESA holes. These fittings then insert into the frame's channels. The monitor's fittings secure to the frame with locking arms that provide an easy way to remove the monitors for service.

***Important:*** Installing video displays is a serious endeavor that requires experienced professionals. ***Improperly prepared walls and other structures as well as the equipment being installed can result in property damage, injury, death and/or liability to the installing contractor.*** Do not proceed if any part of the installation is in doubt.

**Caution:** Due to the wide variety of structures, environments, materials and installation methods, the installing contractor must exercise good judgment in selecting the proper mounting area. The mounting structure must be capable of supporting at least 5 times the load of the installed equipment. Consult local building codes for further guidance.

***Follow these instructions for the most efficient and safest mounting results.***

**Package Contents:**

| | |
|---|---|
| 1 pc | Wall frame w/ locking arms (Assembled) |
| 1 pc | Adjustment wrench |
| 36 pcs | M6 Adjustable stand-off buttons |
| 15 pcs | Wood screw hanger (Adjustable lag bolts) |
| 15 pcs | Flat washer, 5/16 |
| 15 pcs | Hex Nuts, 5/16-18 |
| 1 pc | Instruction sheet |

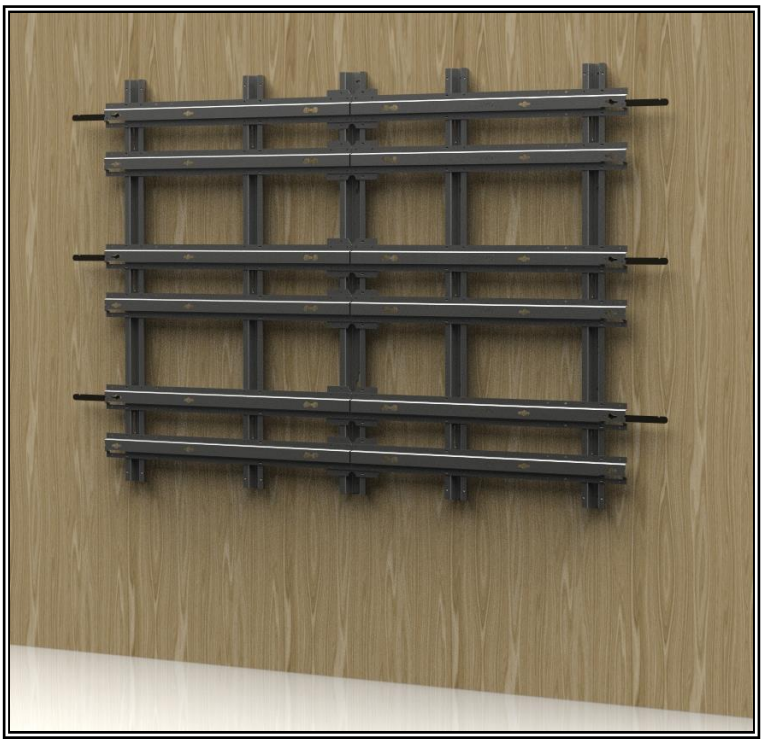
**Notes:**

*Video wall frame must be assembled before proceeding. Refer to assembly guide sheet.*

*Hardware to mount video wall frames to wall is included.*

**Note:**

The assembled frame weighs approximately 160 lb/73 Kg and requires two installers to mount it to the wall.



3 Wide x 3 Deep Video Wall Display (Rear View)

**Step 1: Mount Frame to Wall**
Scribe a horizontal line on the wall showing the exact location of where the top edge of the upper left monitor will be. Measure down **3.7" (94mm)** from that line and scribe another horizontal line showing the horizontal location of the first adjustable lag bolt **(Figure 1).**

Scribe a vertical line showing where the left side of the upper monitor will be. Measure to the right and scribe another vertical line **15" (381mm)** from the monitor's left vertical line to locate the vertical location of the first adjustable lag bolt (**Figure 1).**

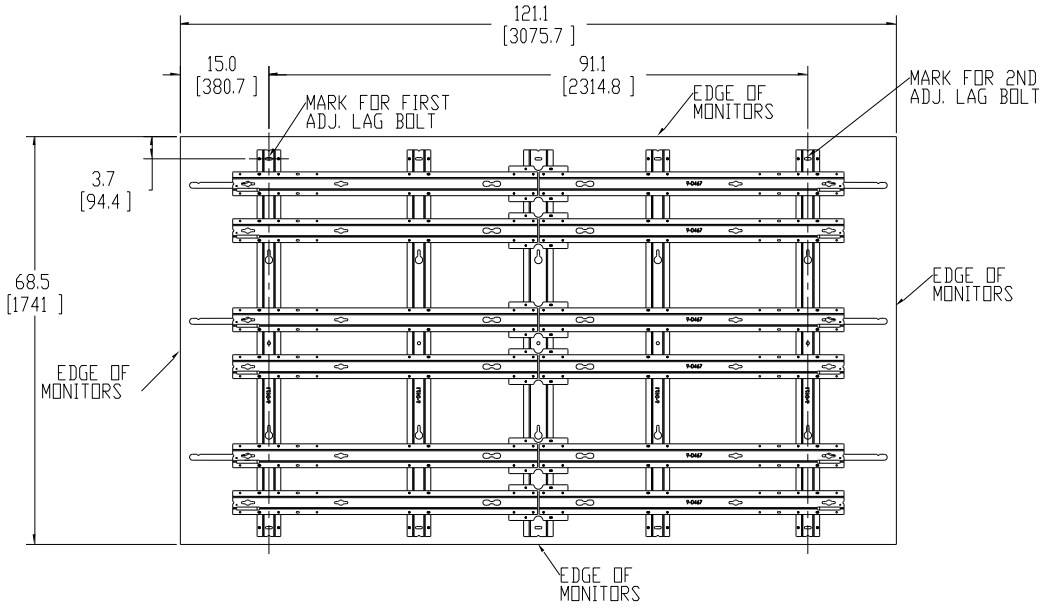



**Figure 1**

Mark the intersection of the scribed vertical and horizontal line. This will be the location of the first adjustable lag bolt **(Figure 1).**

Measure **91.1" (2314mm)** to the right for the second adjustable lag bolt location. Use a long level to horizontally align the second hole location to the first marked location **(Figure 1)** Pre-drill the two marked holes using 3/16" (5mm) drill bit. Install the adjustable lag bolts to the pre-drilled holes (deep socket maybe required for installation).

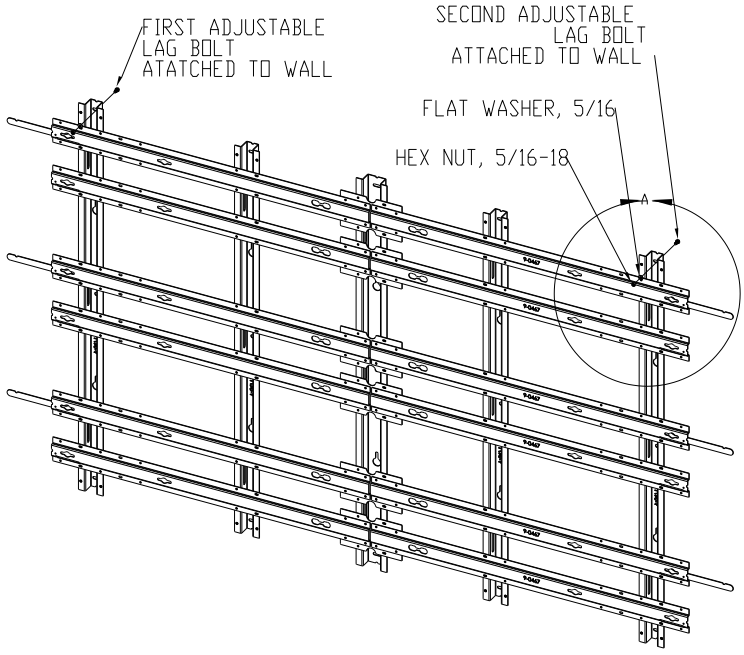



**Figure 2**

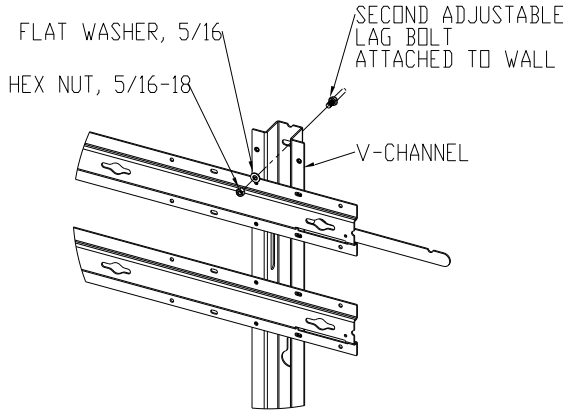



**Figure 3**

**Step 2:**
Hang the video wall frame into the two adjustable lag bolts (2 or 3 people required). Install the flat washer and hex nut onto the adjustable lag bolts. Level the video wall frame then tighten the hex nuts **(Figure 2 and 3).**

**Step 3:**
Use the frame as a template to mark the locations of the other adjustable lag bolts (All upper and lower horizontal slots and the center holes on the V-Channels **(Figure 4).**

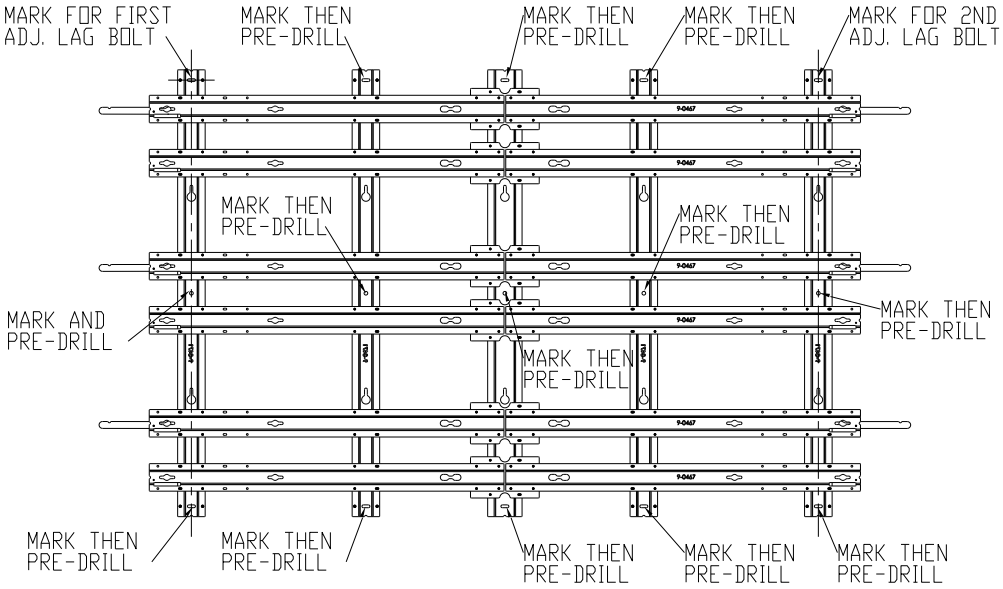



**Figure 4**

**Step 4:**
Loosen the hex nuts and washers securing the frame to the wall then remove and place the frame back on the floor. Pre-drill the mark location then install the adjustable lag bolts. Tighten adjustable lag bolts until hex nut is flushed against the wall.

Re-hang the frame back onto the adjustable lag bolts. Install the flat washers and hex nuts onto the adjustable lag bolts. Hand tighten hex nut only and do not fully tighten **(Figure 5).**

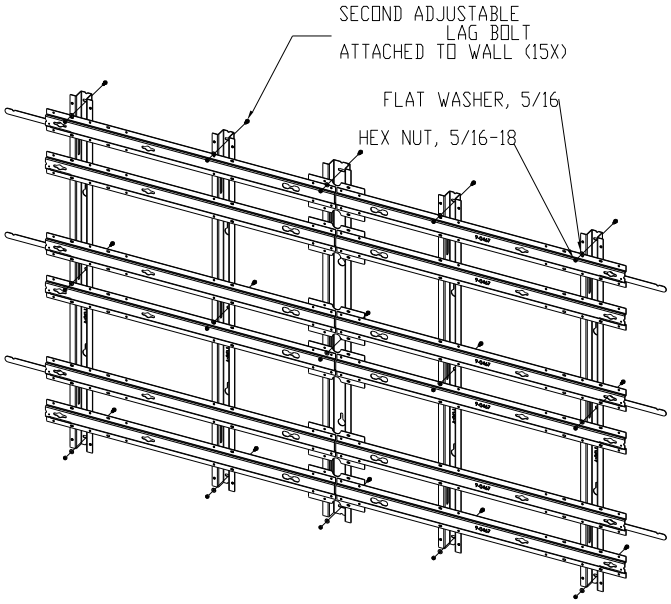



**Figure 5**

**Step 5:**
Use a level to plum the frame by rotating the adjustable lag bolts on the V-channels using the provided adjustment wrench **(Figure 6).** Rotate counter clockwise to pull the frame forward and clockwise to push the frame backward towards the wall. Use a long level, straight edge or a string tied to each ends of the H-slat to make the horizontal H-slat straight by adjusting the adjustable lag bolts closest to the H-slat. Once the frame is plumed and leveled, tighten all hex nuts permanently.

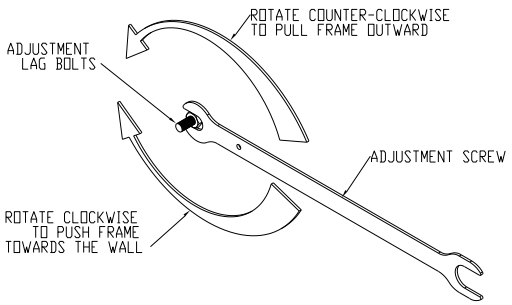



**Figure 6**

**Step 6:**
**Install M6 Adjustable stand-off buttons to monitors**
Thread four M6 threaded standoff-buttons (black) into the outer VESA mounting holes at the back of each monitor. Snugly tighten buttons **(Figure 7).**

**Step 7: Install Monitors to the Left Column**

Lift up the locking arms on the left side of the frame **(Figure 12).** Starting with the upper left monitor, connect power and signal wires to each monitor then align its four M6 adjustable stand-off buttons with the four large horizontal slots in the H-slats then slide the monitor from left to right until it stops. Pull down the locking arm to lock monitor into place **(Figure 8).** Plum monitor using a level, if necessary adjust the top or lower stand-off buttons. Repeat step 7 for the two lower monitors.

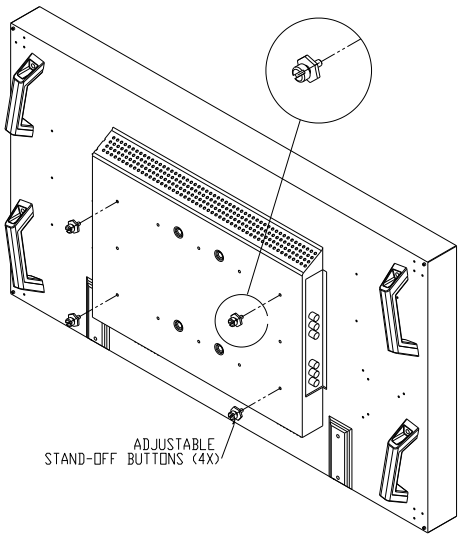



**Figure 7**

**Step 8: Note on alignment:**

While installing monitors, check for front and side alignment of the monitors. The surfaces of all monitors must be aligned and flush to each other. If one or more screens are tilted more than others use the adjustment wrench to reach the hex portion of the M6 adjustable stand-off buttons at the rear of the monitor and rotate counter clockwise to pull the front of the monitor forward or clockwise to push it back towards the wall. If access to the rear is not accessible remove the screen(s) and depending whether the monitor needs to be tilted forward or backward rotate the buttons using the adjustment wrench or a flat head screw driver **(Figure 9).** Reinstall and recheck surface alignments. Repeat where necessary.

**Step 9: Install Center Column Monitors**

Starting with the top center monitor, connect the power and signal wires to each monitor then align its four M6 threaded stand-off buttons with the four large horizontal slots in the H-slats. Slide the monitor from right to left until it is snug against the left column monitor **(Figure 10).** Repeat step 9 for the two lower monitors. Check for front and side alignments with the left column of monitors-refer to Step 8 for alignment procedure.

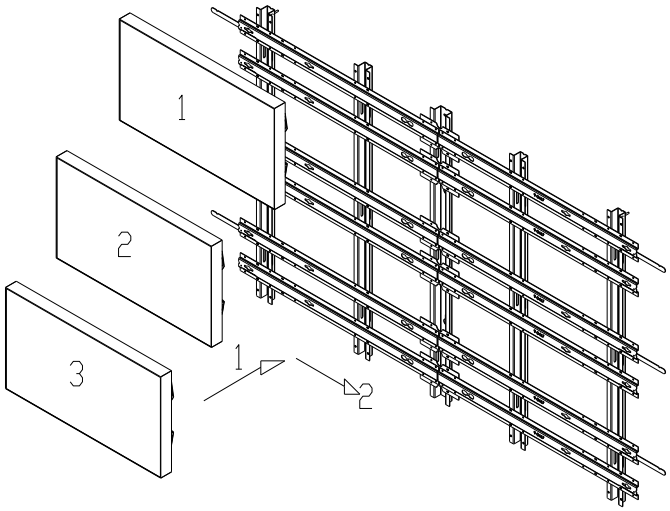



**Figure 8**

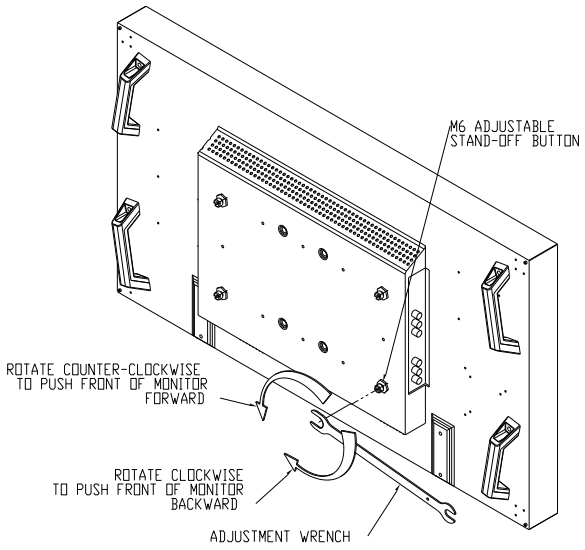



**Figure 9**

**Step 10: Install Right Column Monitors**

Lift up the locking arms on the right side of the frame **(Figure 12).** Starting with the upper right monitor, connect power and signal wires to each monitor then align its four M6 adjustable stand-off buttons with the four large horizontal slots in the H-slats. Slide the monitor from right to left until it is snug against the center column monitor. Pull down the locking arm to lock monitor into place **(Figure 11).** Repeat step 10 for the two lower monitors. Check for front and side alignments with the center column of monitors-refer to Step 8 alignment procedure.

**Servicing Tips (Figure 12)**

Right Column Monitor Removal

Reach fingers between the wall and the right monitor and lift the locking arm. Slide monitor to the right until its fittings disengage from the frame, then pull away from the wall to remove.

Center Column Monitor Removal

Reach fingers between the right side wall and the monitor to the right of the monitor being removed. Lift the locking arm then slide the monitor to it extreme right position, about 2" (50 mm). Slide the center monitor to the right until its fittings disengage from the frame, then pull away from the wall to remove.

Left Column Monitor Removal

Reach fingers between the wall and the left monitor and lift the locking arm. Slide monitor to the left until its fittings disengage from the frame, then pull away from the wall to remove.

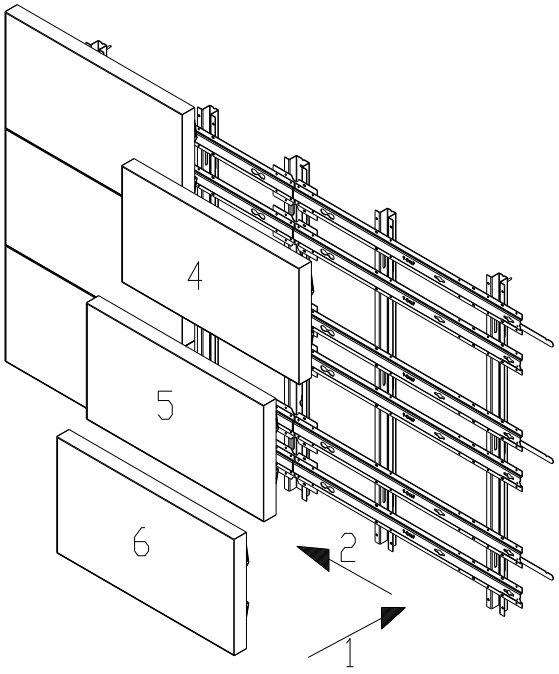



**Figure 10**

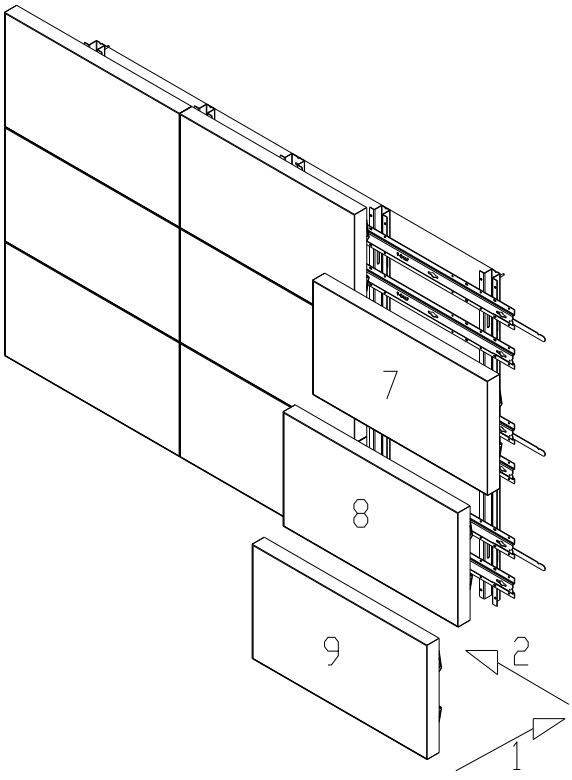



**Figure 11**

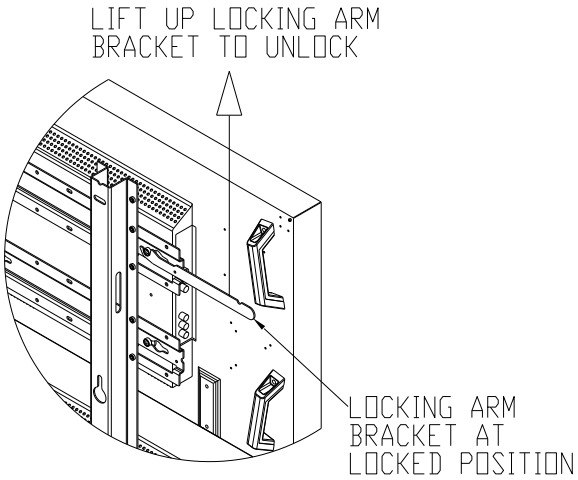


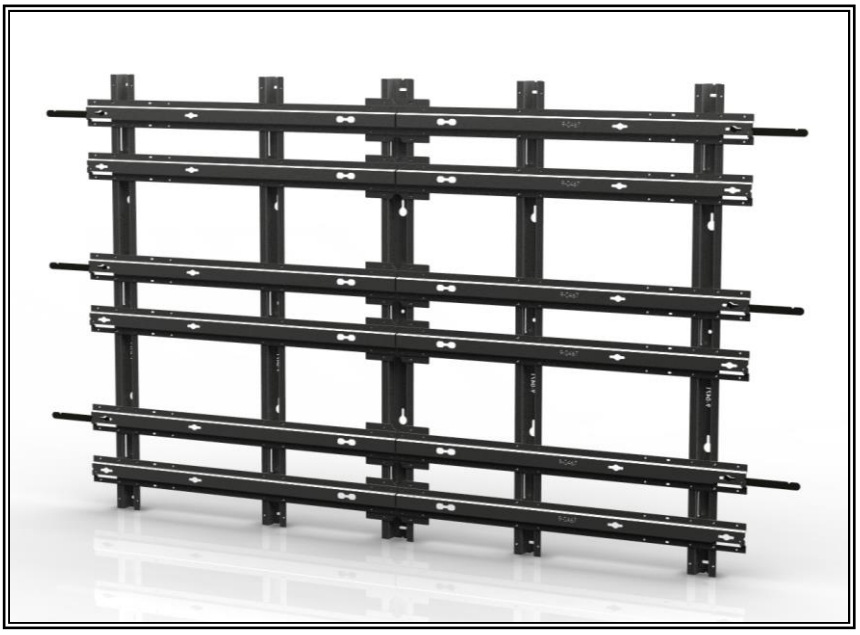

**Figure 12**

# SmartView™ Mounting Frame

## 3 Wide x 3 Deep Video Wall Display Assembly Guide

**WMK-034**

***Important:*** Assembling video displays is a serious endeavor that requires experienced professionals. ***Improperly assembled equipment can result in property damage, injury, death and/or liability to the installing contractor.*** Contact manufacturer if any part of the assembly is in doubt.



***Follow these instructions for the most efficient and safest assemble results.***

**Package Contents:**

| | |
|---|---|
| 6 pcs | 9-0465 3X Left H-Slat |
| 6 pcs | 9-0467 3X Right H-Slat |
| 4 pcs | 9-0471 3X V-Channel |
| 1 pc | 9-0495 3X Joiner V-Channel |
| 6 pcs | 9-0425 3X Joiner plate |
| 6 pcs | 9-0463 Lock Arm Bracket |
| 6 pcs | Nylon/friction washer, .28 IDx.74OD, white |
| 6 pcs | Phil. Pan head screw, M4-12mm long |
| 6 pcs | Nyloc nut, M4 |
| 144 pcs | Flat head phil. Screw, M6x20mm long |

**Step 1:**

Check hardware to make sure it is complete to assemble the parts. Refer to package contents.

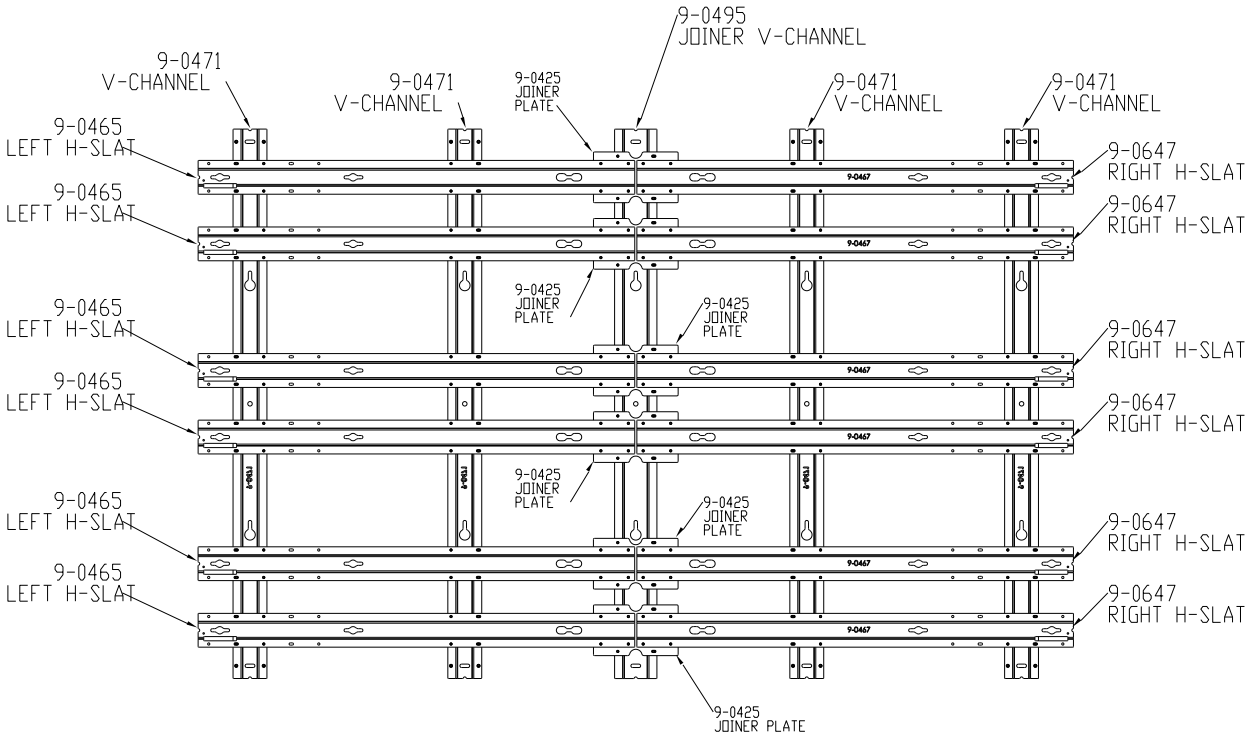



**Figure 1**

**Step 2:**
Lay all the parts on a flat floor to make sure all the parts are accounted for **(Figure 1).**

Start with placing the 9-0471 3X V-Channel and 9-0495 joiner V-channel on the floor facing up as shown in figure 1. Make sure the large hole of the key holes slots are all on the lower end and facing same direction **(Figure 1).**

Place 6 pieces of 9-0425 joiner plates over the 9-0495 joiner V-channel **(Figure 1).**

Place six pieces of 9-0465 Left H-slat on the left side over the 9-0471 V-channel with the horizontal keyholes facing up and the rectangular open slots on the lower end **(Figure 1 & 2).** Place six pieces of 9-0467 right H-slat on the right side over the 9-0471 V-channel with the horizontal keyholes facing up and the rectangular open slots on the lower end **(Figure 1 & 2).**

All the ends of the H-slats (9-0465 and 9-0467) with the rectangular slots opening should be on the ends of the frame **(Figure 1 & 2).**

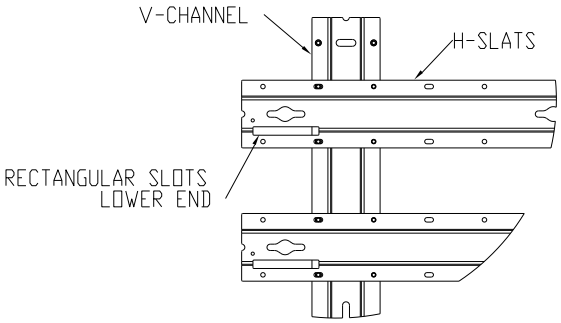



**Figure 2**

**Step 3: Install Locking Arm brackets**
Assemble the 9-0463 lock arm bracket on **THREE** of the 9-0465 Left H-slat and THREE on the 9-0467 Right H-slat using the provided M4 screws, nylon/friction washer and nyloc nut **(Figure 3).** The lock arm brackets must be installed on the FIRST, THIRD and FIFTH horizontal H-slats starting from the top **(Figure 4).** Tighten screw to achieve friction on the lock arm bracket.

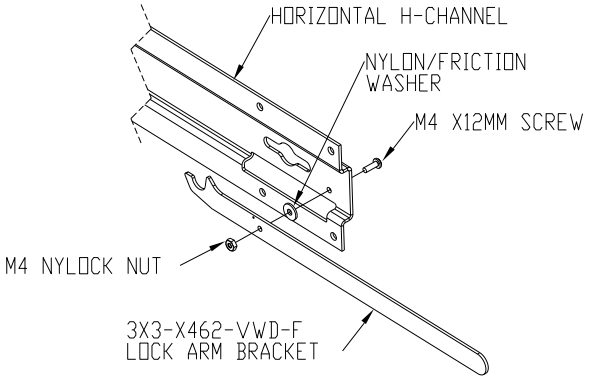



**Figure 3**

**Step 4: Assemble the Left Frame.**
Attach 9-0465 H-slats) onto the V-channels using the provided M6x20mm long flat head screws. Do not tighten screws until all screws are installed and entire frame is assembled **(Figure 5).**

**Step 5: Assemble the Right Frame.**
Attach 9-0467 H-slats onto the V-channels using the provided M6x20mm long flat head screws. Do not tighten screws until all screws are installed and entire frame is assembled **(Figure 6).**

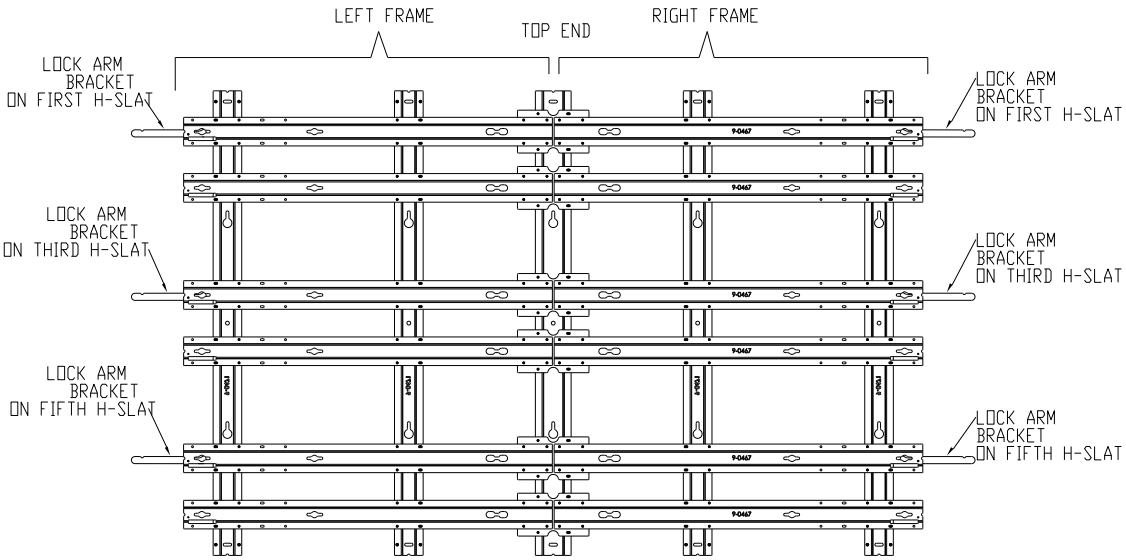



**Figure 4**

**Step 6:**
Join the left frame and right frame together using the Joiner plates (9-0425) with the provided M6 flat head screws **(Figure 7).** Attach the joiner plate/frame assembly to the joiner V-Channel (9-0496) using the provide M6 flat head screws **(Figure 8).**

**Step 7:**
Check squareness of the each frame then tighten all screws permanently. Tigthen screws on the holes of the H-slats first before the screws on the slots.

**Step 8:**
Refer to product installation guide manual.

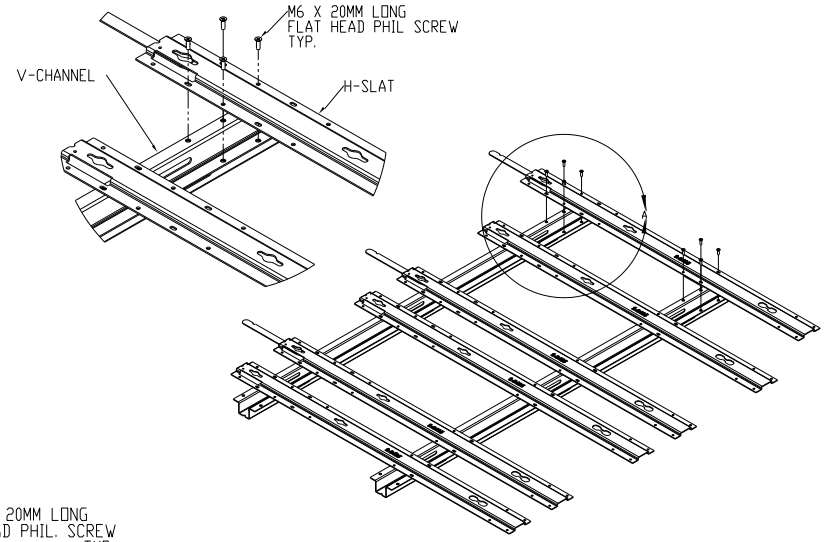



**Figure 5**

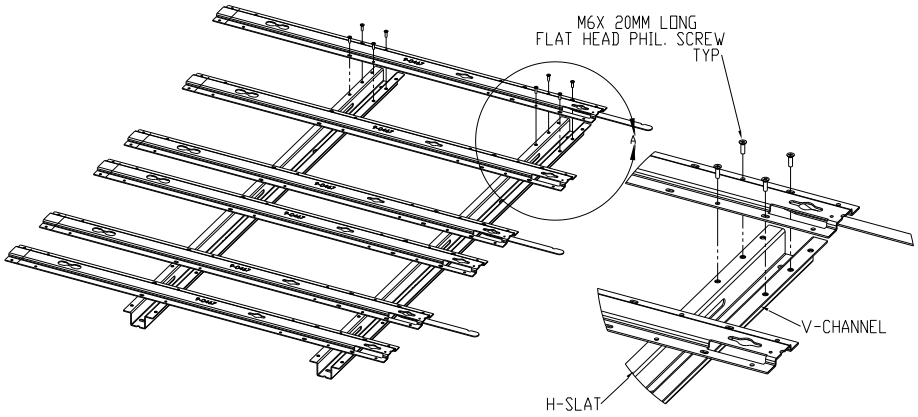



**Figure 6**

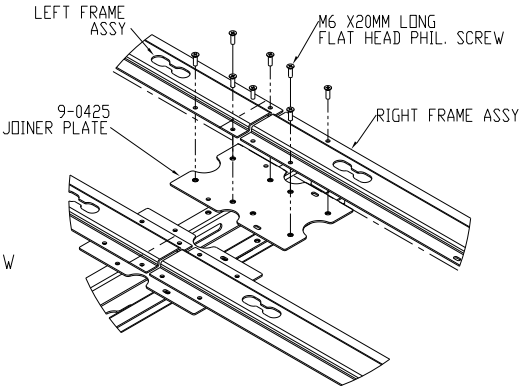



**Figure 7**

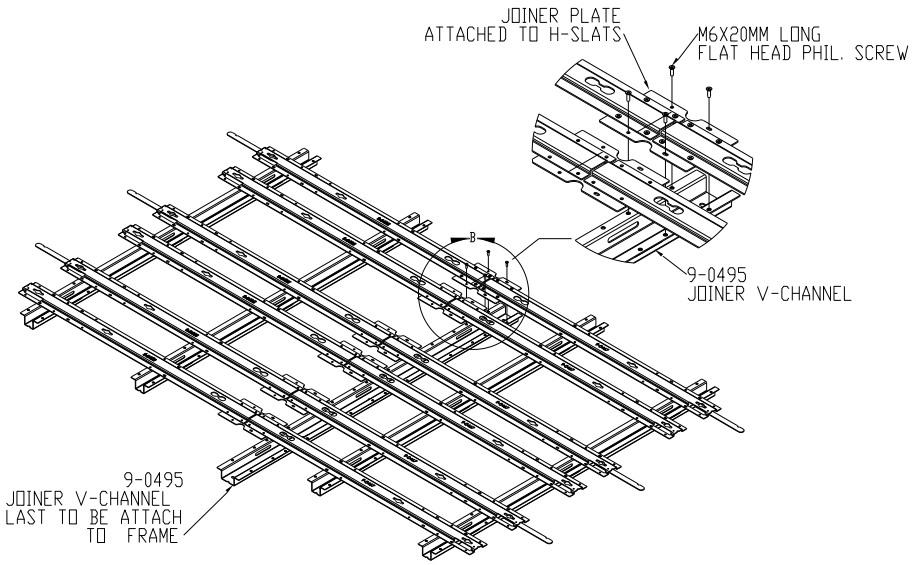



**Figure 8**