
INSTALLATION INSTRUCTIONS

Large Flat Panel Dual Arm Wall Mount, Model MSP-SPNR (PNR™)

The MSP-SPNR is wall-mounted, rugged, versatile, and installer-friendly. The mount is compatible with the

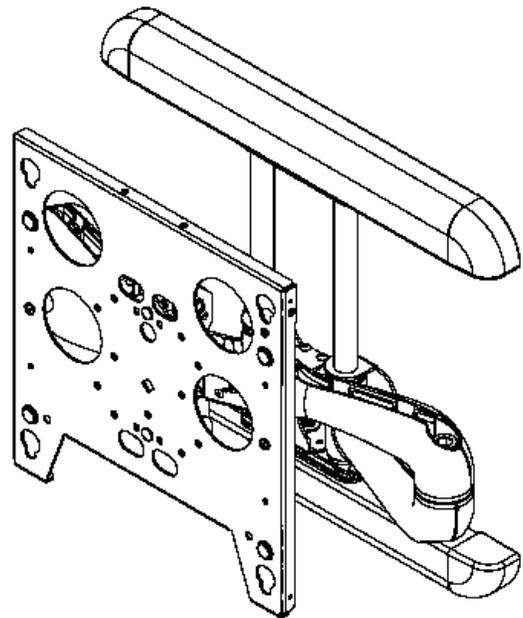
PSB-2095 interface bracket in which a display can be mounted in either the landscape or portrait position on the mount.

The dual arms on the mount:

- Extend from the wall 24-7/8" in length
- Pivot up to 90° left or right of center

The standard mount is shipped with the support posts for the dual arms centered in the mount. The support posts can be moved laterally right or left of center to readily accommodate sites with limited wall space. The mount also has two inches of height adjustment. The tilt range for the display is 5° up and 15° down.

The mount was designed for fast installation. After drawing the plumb line and installing the two top lag bolts into the dual wall studs, the installer hangs the mount on its top bracket and installs two lag bolts in the bottom bracket. Next, the installer makes the height adjustment, mounts the display, and connects the power/audio/video cables, which are diverted into the built-in path in the swing-out arms. After making the lateral, rotational, and tilt adjustments, the installation process is complete.



BEFORE YOU BEGIN

WARNING: To prevent damage to the mount, which could affect or void the Factory warranty, and to the equipment that will be attached to it, thoroughly study all instructions and illustrations before you begin the installation. Pay particular attention to the "Important Warnings and Cautions" on Page 2.

- The combined weight of the components installed on the mount must not exceed 200 lbs. (90.72kg).
- The wall mount must be installed on dual wall studs or supporting framework. The wall to which the mount is anchored must be capable of supporting five times the total weight of the mount and all attached equipment.
- If you have any questions about this installation, contact Chief Manufacturing at 1-800-582-6480.



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: Improper installation can result in serious personal injury! Make sure that the structural members can support a redundant weight factor five times the total weight of the equipment. If not, reinforce the structure before installing the mount.

WARNING: Be aware also of the potential for personal injury or damage to the unit if it is not adequately mounted.

WARNING: The installer is responsible for verifying that the wall to which the mount is anchored will safely support the combined load of all attached components or other equipment.

WARNING: The weight of the display placed on the mount must not exceed 200 lbs. (90.72kg), the maximum load capacity of the mount.

WARNING: Watch for pinch points. Do not put your fingers between movable parts.

WARNING: Make sure the mount and brackets are correctly oriented.

WARNING: Make sure the flag securing the display is completely lowered at all times except when removing or installing the display.

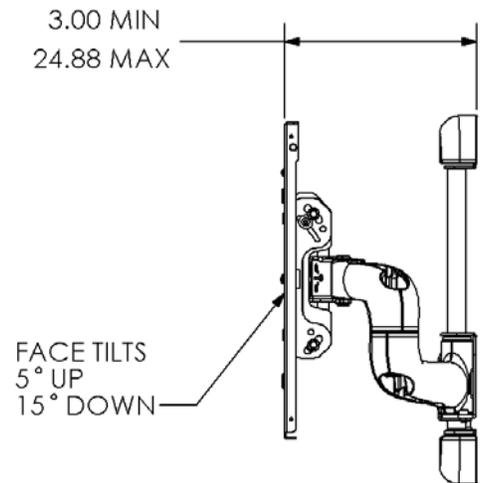
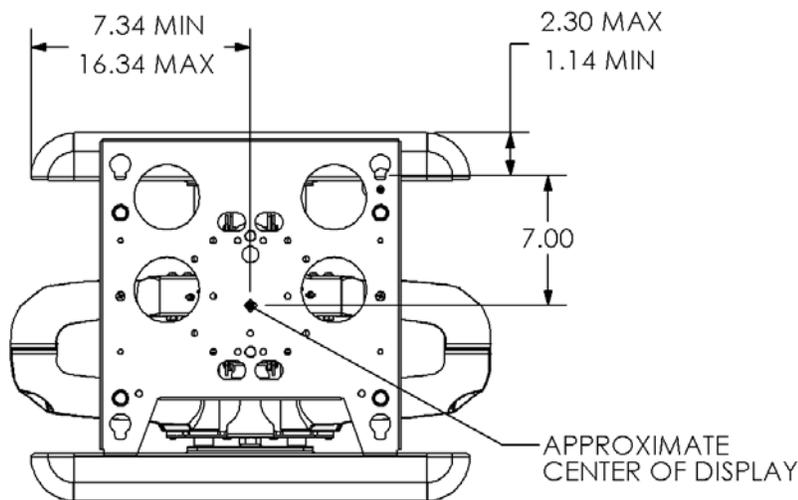
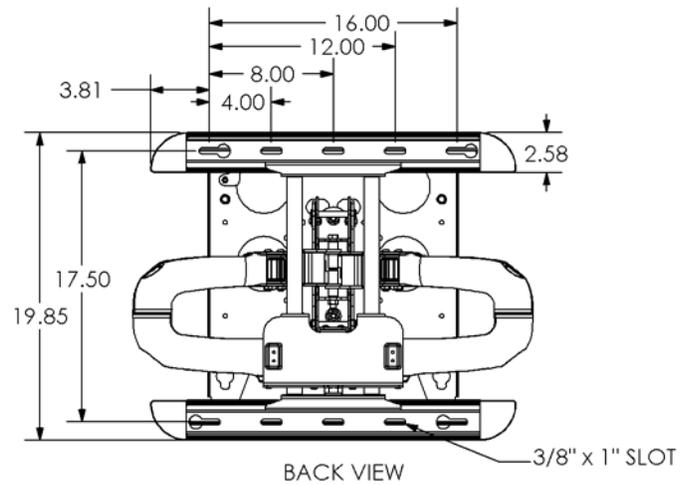
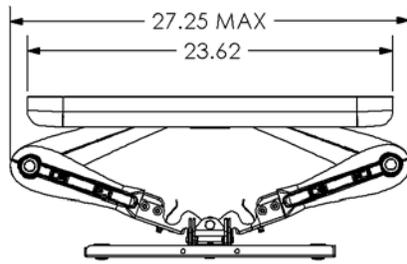
CAUTION: Check the unit for shipping damage before you begin the installation.

NOTE: Hardware for attaching this unit to the wall is not supplied.

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DIMENSIONAL DRAWING



NOTE: CUSTOM INTERFACE BRACKET NOT SHOWN. THE CUSTOM INTERFACE BRACKET NEEDED FOR YOUR DISPLAY WILL ADD BETWEEN 1/2" AND 2" IN DEPTH AND MAY AFFECT LOCATION OF DISPLAY ON THE MOUNT.
SEE PSB-XXXX DRAWING ALSO.

Inspect The Unit Before Installing

WARNING: Watch for pinch points. Do not put your fingers between movable parts.

- Carefully inspect the mount for shipping damage. If any damage is apparent, call your carrier claims agent and do not continue with the installation until the carrier has reviewed the damage.

NOTE: Read all instructions before starting installation.

- Lay out components to ensure you have all the required parts before proceeding. See “DIMENSIONAL DRAWING” on page 3.

SPECIFICATIONS

Table 1 provides the specifications for the mount.

Table 1: Mount Specifications

Model	Max Support Weight	Mount Extended from Wall
MSP-SPNR	200 lbs. (90.72kg)	24-7/8”*

NOTE: *Dimension does not include the PSB interface bracket.

INTERFACES

Table 2 lists the interface for the MSP-SPNR.

Table 2: MSP-SPNRInterface

Model	Interface
MSP-SPNR	PSB-2095

TOOLS REQUIRED FOR INSTALLATION

- Allen wrench set
- Drill and bit set
- Wrench set

NOTE: Other tools may be required depending on the method of installation.

PARTS LIST

Unpack the carton and verify the contents listed in Table 3. If you are missing any of the listed parts, contact Customer Service at: 1-800-582-6480.

Table 3: Parts List

REF	DESCRIPTION	QTY
10	PNR Wall Mount	1
20	Cover Plates	2
30	End Caps	4
40	Adjustment Wrench (not shown)	1
50	Tiewraps	12
—	Lag Bolts (required, not supplied)	4
—	Flat Washer (required, not supplied)	4
—	Wrench, Adjustment	1
—	Bar, Adjustment	1

INSTALLATION

WARNING: Improper installation can result in serious personal injury!

WARNING: It is the responsibility of the installer to verify that the wall to which the mount is anchored will safely support five times the combined load of all attached components and equipment. If not, reinforce the structure before installing the mount.

1. Locate two wood studs 16" apart on center
2. Determine the exact mounting location prior to installation, considering screen size and the unit's total swing arm radius. Keep in mind that the mount must be mounted to wood studs that are 16" apart on center.

NOTE: Mount the mount between parallel wall studs or other supporting framework that is vertical or horizontal.

3. Using a stud sensor, locate the two wood studs where you will install the mount.
4. Draw a level plumb line to indicate the desired height of the top mounting bracket.
5. With an assistant, lift and hold the mount against wall. Use a pencil, awl, or small nail to mark the mounting holes where two pilot holes will be drilled into the center of the wood studs. Make sure the mounting holes are level.

6. With an assistant, lay the mount down on the floor.
7. Drill two pilot holes where the mounting holes were marked for anchoring the top bracket on the mount. See Figure 1.
 - a. For a 5/16" lag bolts (not included), use a 7/32" drill bit.
 - b. For a 3/8" lag bolts (not included), use a 9/32" drill bit.

NOTE: Do not tighten the lag bolts down at this time. Leave enough space between the wall and lag bolts to hang the mount.

8. Install two lag bolts and two flat washers, in the pilot holes drilled in step 6.
 - a. If you used a 7/32" drill bit, use 5/16" lag bolts and 5/16" flat washers, minimum.
 - b. If you used a 9/32" drill bit, use 3/8" lag bolts and 3/8" flat washers, minimum.

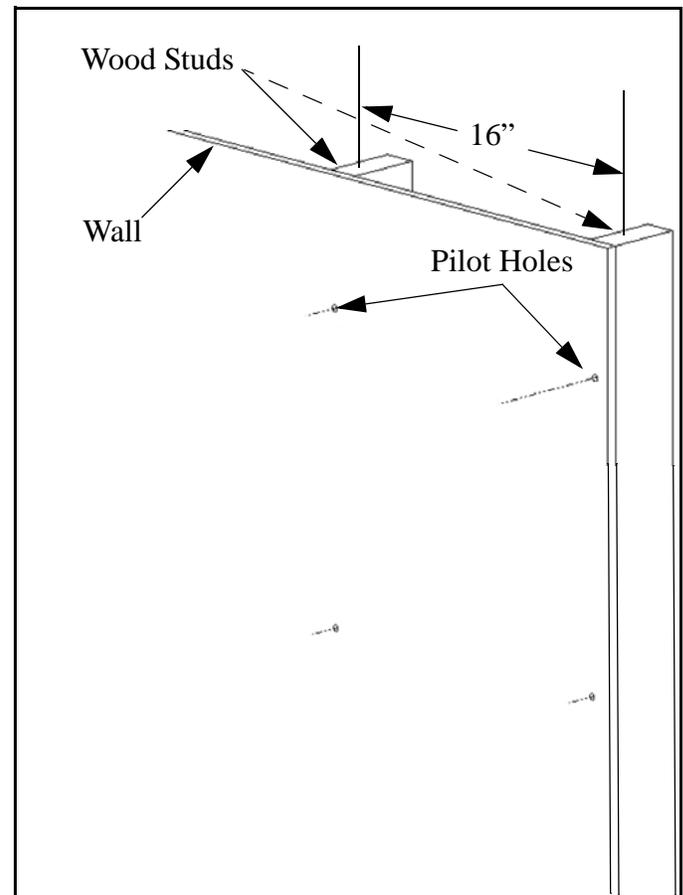


Figure 1: Two Wood studs 16" Apart On Center

Install the Mount

Install the top bracket

WARNING: Improper installation can result in serious personal injury!

1. With an assistant, lift and hang the mount on the two lag bolts and washers previously installed on the wall. (See Figure 2:).

NOTE: Make sure washers are installed in front of the top bracket, not behind the bracket.

2. Slide the mount into the desired position on the wall and tighten the two lag bolts.

Mount bottom bracket

1. Mark the two mounting holes in the bottom mounting bracket (See Figure 3:). Make sure to align the holes parallel to the holes drilled in the top bracket.
2. Drill two pilot holes in the wall studs.
3. Install two lag bolts and two washers into the pilot holes.
4. Tighten the two lag bolts.

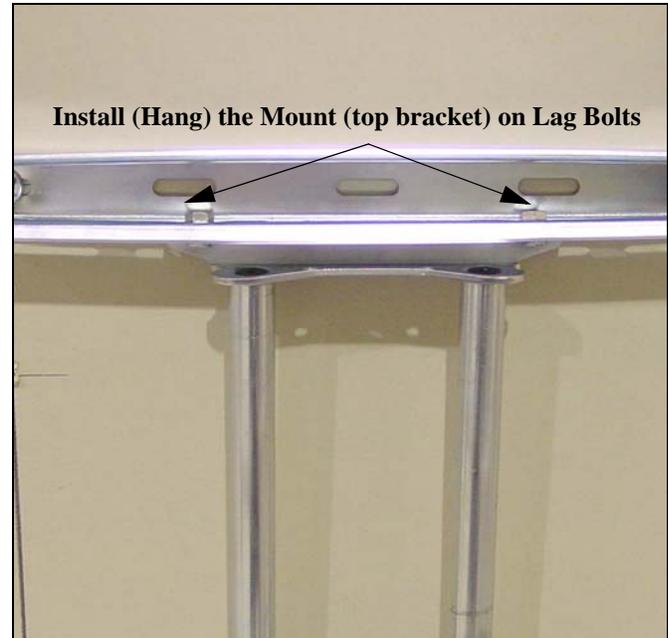


Figure 2: Install the Mount on Lag Bolts

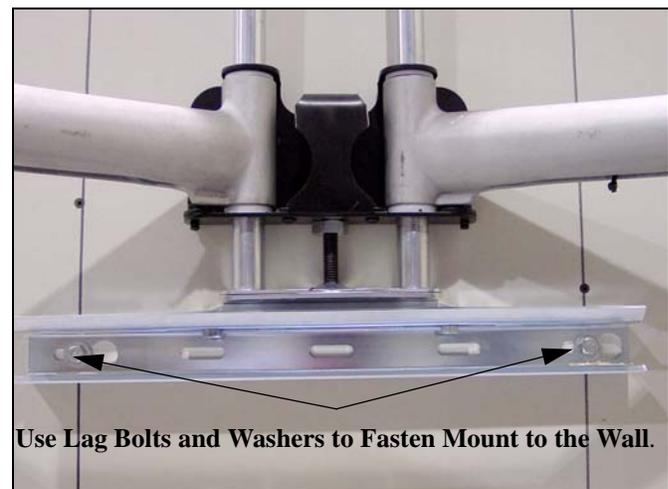


Figure 3: Mount Bottom Bracket

Adjust Height

NOTE: Height adjustment range up to 1-1/2 inches.

Check mount for the desired height. If needed, use the adjustment wrench (40) to adjust the height.

To adjust the height:

1. Turn adjustment nut (see Figure 4) clockwise (CW) to lower the unit height, or
2. Turn adjustment nut counterclockwise (CCW) to raise the unit height.

Install Cover Plates and End Caps

NOTE: The cover plates and end caps have pressure fitting ends that lock in place with each other.

1. Install cover plate (20) over the top bracket. See Figure 5.
2. Install end cap (30) on the cover plate (20).
3. Repeat steps 1 and 2 for the bottom mounting bracket.

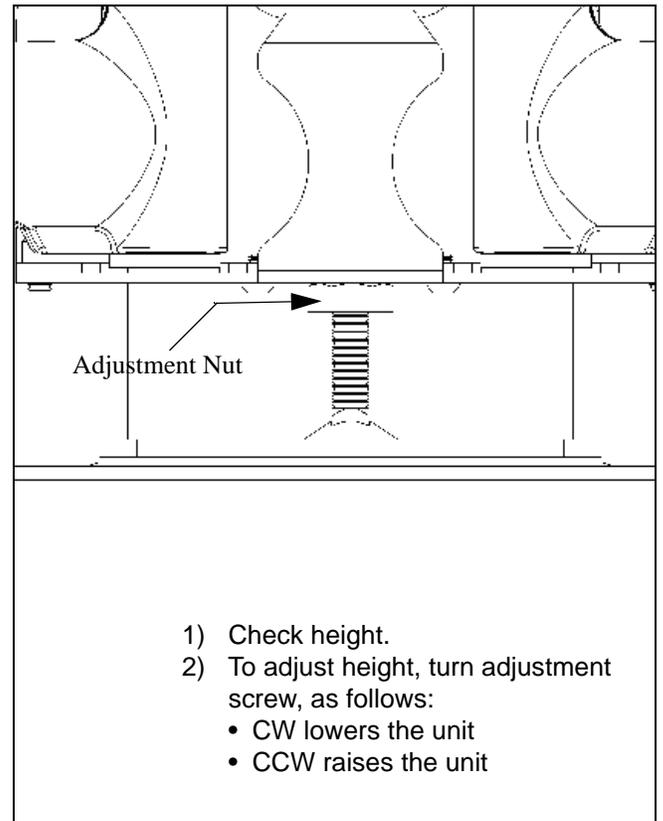


Figure 4: Adjust Height

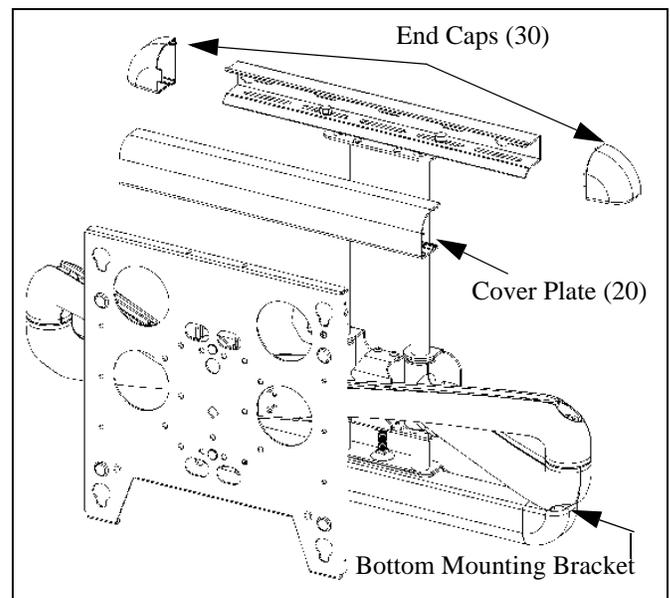


Figure 5: Install Cover Plates and End Caps

INSTALL PSB-2095

The PSB-2095 parts list is shown in the table on this page.

1. Using a 10-24 button head cap screw inserted from the backside of the bracket (see (See Figure 6:), secure the mounting button with the chamfered hole of mounting button (larger surface) facing the bracket (See Figure 7:).
2. Repeat Step 1 to install the other three mounting buttons.
3. Place nylon spacers over the mounting holes on the back of the screen (See Figure 8:).
4. Attach mounting bracket to the display (See Figure 9:), as follows:
 - a. For 32" screens, use the M5 screws.
 - b. For 42" and 50" screens, use the M6 screws.

REF	DESCRIPTION	QTY
10	Plasma Bracket	1
20	10-24 x 1/2 Button Head Cap Screw	4
30	M5 x 20mm Button Head Cap Screw	4
40	M6 x 20mm Button Head Cap Screw	4
50	Mounting Buttons – Tapped	4
60	1/8" Allen Key	1
70	.875 OD x .33 ID x .375 Nylon Spacer	4
80	M4 Allen Key	1

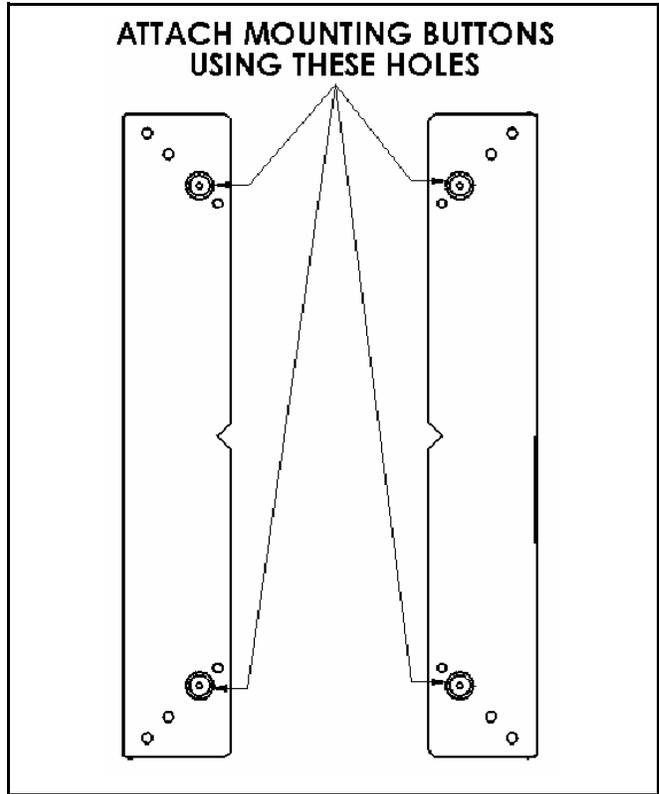


Figure 7: Mounting Button Location

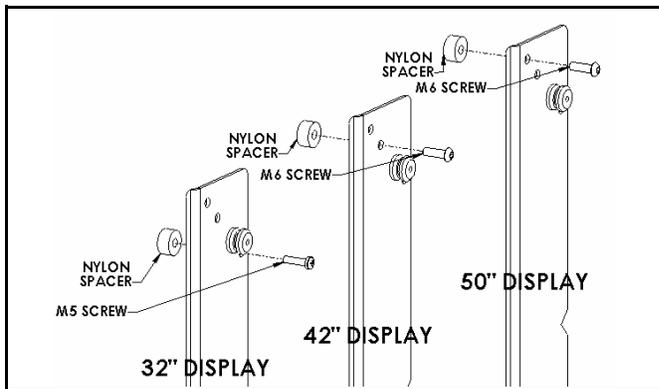


Figure 8: Bracket Hole Location

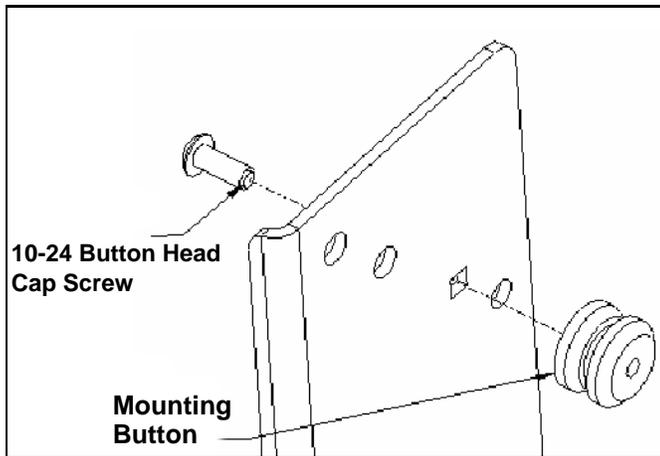


Figure 6: Mounting Button Attachment

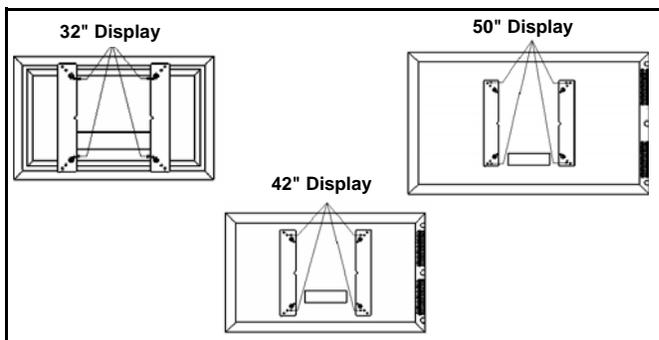


Figure 9: Bracket Attachment Location

Mount the Display

1. Make sure power is not supplied (turned off) to the display and the locking device is in the unlocked (down) position (See Figure 10:) before attempting to mount the display.

WARNING: Watch for pinch points. Do not put your fingers between movable parts.

2. With an assistant, slide the display down over the mount. Make sure buttons of PSB interface bracket fully engage all teardrop slots of the mount.
3. Secure the mounting bracket to the mount by completely engaging the locking device (See Figure 10:).

WARNING: Make sure the locking device securing the display is completely engaged at all times except when removing or installing the display. The locking device must be completely engaged during installation/removal of cables when the display is mounted.

NOTE: A padlock may be used on the locking device for increased security.

4. Connect and secure power/audio/video cables, making sure to leave sufficient slack to allow for movement of the swing arms.

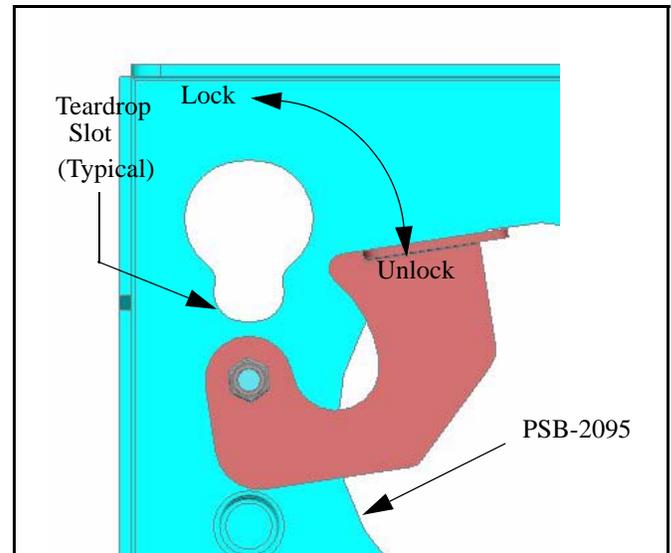


Figure 10: Locking Device

CABLE MANAGEMENT

WARNING: Make sure your cables do not run through a pinch point.

1. Route power/audio/video cables through the cable channel in top arm (See Figure 11:), allowing sufficient slack in cables for extension and avoiding pinch points, and secure cables using two clips and two tiewraps (50, not shown).
2. Route power/audio/video cables along bottom arm (See Figure 12:), using tiewraps (50, not shown) to secure cables to each arm, and through cable channel.

CAUTION: To prevent equipment damage, do not route cables through holes in the display mounting plate.

3. Route power/audio/video cables to an open area behind the mounting plate (not shown). Leave a sufficient amount of slack in cables to allow for connection and extension where needed.



Figure 11: Cable Management Channel (Top)

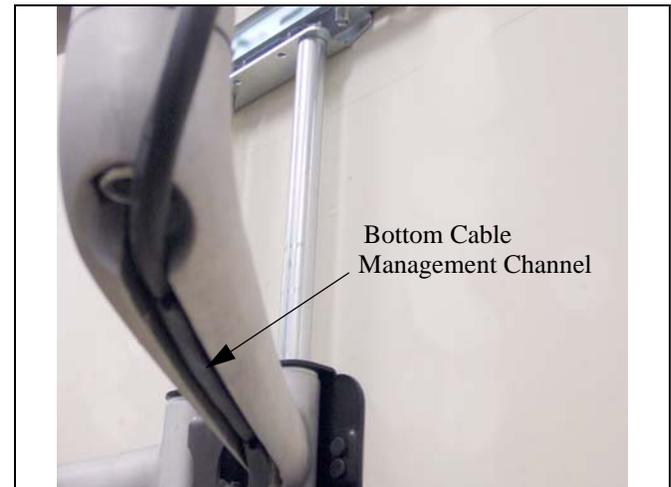


Figure 12: Cable Management Channel (Bottom)

ADJUSTMENTS

TENSION ADJUSTMENTS

Vertical Tilt Tension Adjustment

1. Using 5/32" Allen wrench, slightly tighten or loosen two screws, one on each side, equally (See Figure 13:).
2. With display mounted, check for desired vertical tilt tension.
3. Repeat Step 1 and Step 2 until desired vertical tilt tension is obtained.

Lateral Tilt Tension Adjustment

CAUTION: Overtightening lateral adjustment will cause excessive wear and may distort adjustment components.

1. Using a 9/16" wrench, slightly tighten or loosen lateral tilt tension adjustment nut (see figure 14) (See Figure 14:).
2. Mount the display and check for desired tilt tension.
3. Repeat Steps 1 and 2 until desired tilt tension is obtained.

Rotational Tilt Tension Adjustment

1. If necessary, loosen or tighten bottom rotational tilt tension adjustment nut (See Figure 15:).
2. Mount the display and check for desired rotational tilt tension.
3. Repeat Steps 1 and 2 until desired rotational tilt tension is obtained.

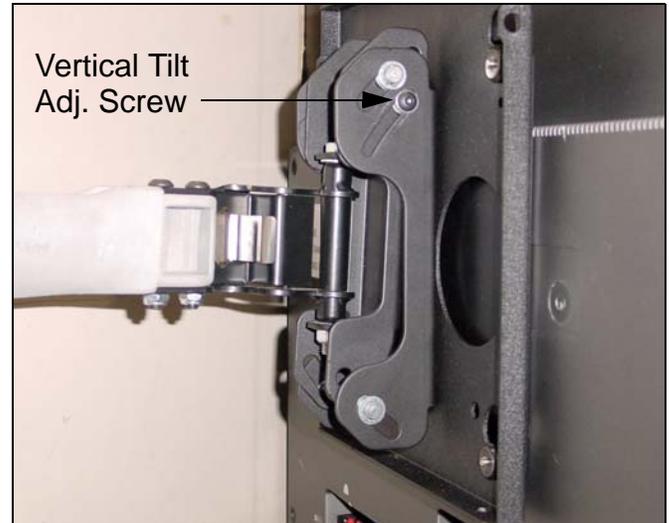


Figure 13: Vertical Tilt

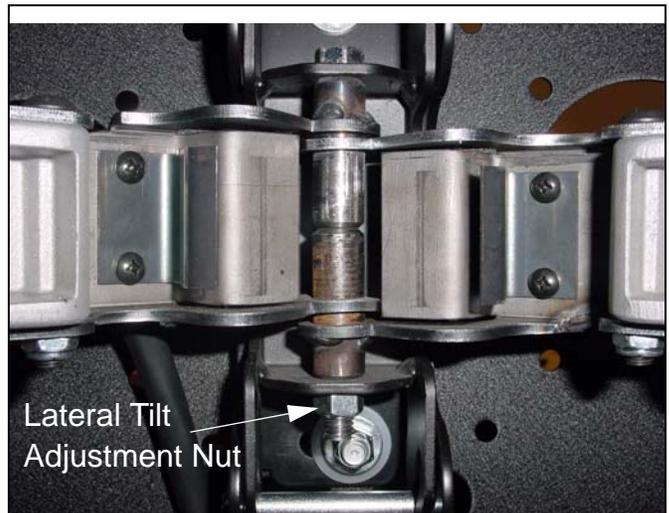


Figure 14: Lateral Tilt

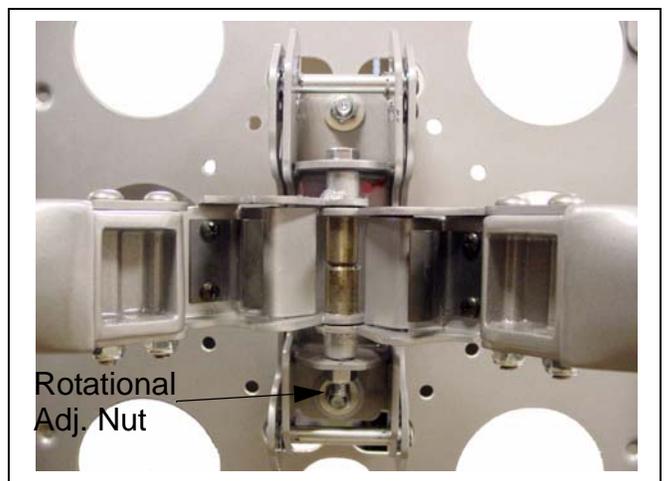


Figure 15: Rotational Adjustment

Swing Arm Adjustments

The dual swing arms are shipped installed in the center of the top and bottom mounting brackets, which is the standard mounting configuration.

The top and bottom mounting brackets have slotted holes, allowing for lateral adjustment of the dual swing arms.

After the top and bottom mounting brackets have been installed between two wood studs 16" on center, the swing arms can be adjusted or moved off center, depending on the location of the mount, the size of the display, and the lateral movement needed to rotate the display.

The swing arms can be adjusted, as follows:

Adjusting the Swing Arms Off-Center

With no disassembly required, you can adjust the swing arms up to 1-inch to the left of center or up to 1-inch to the right of center.

Reconfiguring the Swing Arms Left of Center

With some disassembly and re-assembly required, you can move the swing arms to the left of center by reconfiguring the mount. Use the first and third slotted holes in the top and bottom mounting brackets.

Reconfiguring the Swing Arms Right of Center

With some disassembly and re-assembly, you can move the swing arms to the right of center by reconfiguring the mount. Use the third and fifth slotted holes in the top and bottom mounting brackets.

Adjusting the Swing Arms Off Center

To adjust the dual swing arm mount configuration:

1. Remove the display from the mount.
2. Loosen four bolts (two on the top and two on the bottom) securing the swing arm assembly to the top and bottom mounting brackets (See Figure 16:).
3. Move the swing arm assembly to desired location.
4. Tighten the bolts.
5. Install the display on the mount.

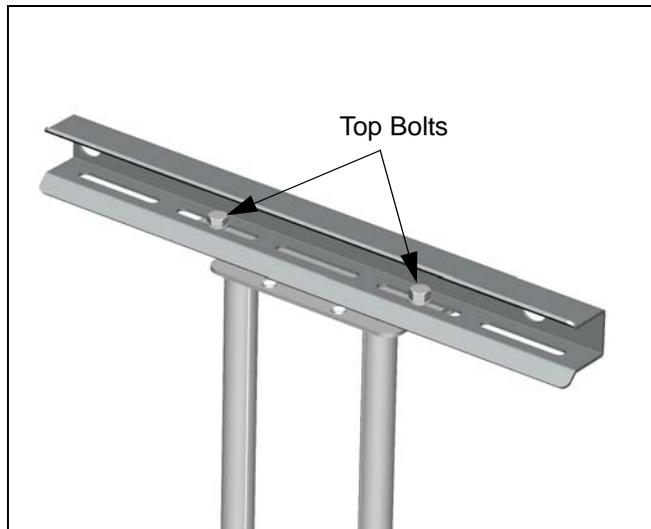


Figure 16: Swing Arm Adjustment-Slightly Off Center

Reconfiguring the Swing Arms to the Left or Right of Center

To change of the dual swing arm mount configuration:

1. Remove the display from the mount.
2. Remove four bolts (two on the top and two on the bottom) securing the swing arm assembly to the top and bottom mounting brackets (See Figure 17:).

WARNING: The next step will release the arm assembly from the mount. The arms and plate may fall if you are not careful.

3. Move the swing arm assembly to desired location.
 - For left of center, see Figure 17.
 - For right of center, see Figure 18.
4. Install retaining pin assemblies (one top and one bottom) and secure using two bolts (one top and one bottom).
5. Install four bolts (two on the top and two on the bottom) to secure the swing arm assembly to the top and bottom mounting brackets (See Figure 18:).
6. Tighten the bolts.
7. Install the display on the mount. (see (see figure))

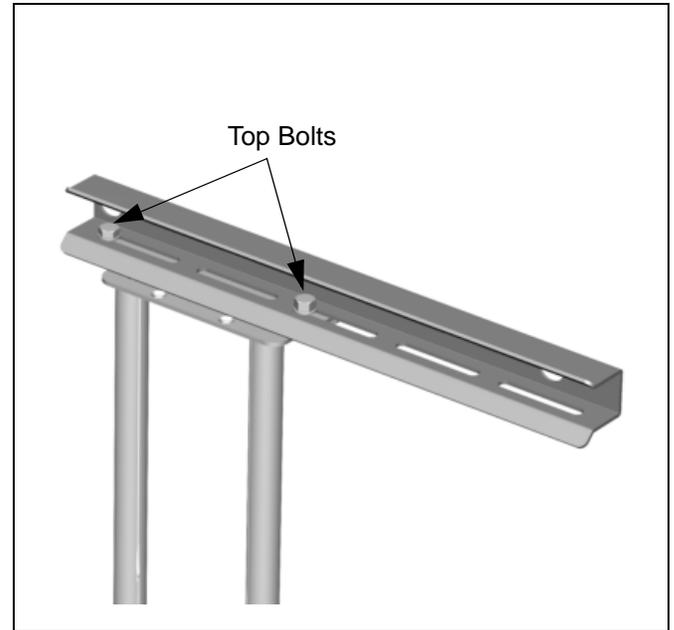


Figure 17: Adjust Swing Arm- Left Of Center

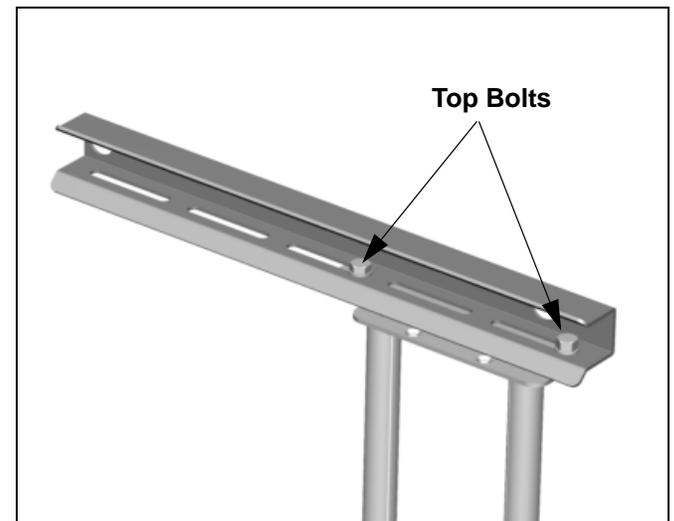


Figure 18: Adjust Swing Arm- Right Of Center

Swing Arm Tension Adjustment

Swing arm tension is pre-set at the factory and is adjusted to accommodate displays with weights near the top of the mounts capacity.

If smaller displays are used it may be difficult to reposition the display after mounting. Swing arm tension can be adjusted to compensate for smaller display by:

NOTE: The display must be mounted prior to adjusting swing arm tension.

1. Locate the adjustment bar and wrench provided with the mount.
2. Place adjustment bar into socket head cap screw located at swing arm pivot point. (see figure 19)

NOTE: The display may need to be repositioned in order to gain access to the tension adjustment screw(s).

3. Using the wrench provided with the mount, turn adjustment bar clockwise to increase swing arm tension or counterclockwise to reduce swing arm tension. (see figure 20) and (see figure 21)

NOTE: Small adjustments of 1/8 turn or less are typically all that is required to achieve desired tension.

4. Check swing arm tension. If desired tension is present, tension adjustment is complete. If additional tension adjustment is required, repeat steps 2 and 3 until desired tension is achieved.

NOTE: If changing from a smaller display to a larger display may be necessary to increase swing arm tension.

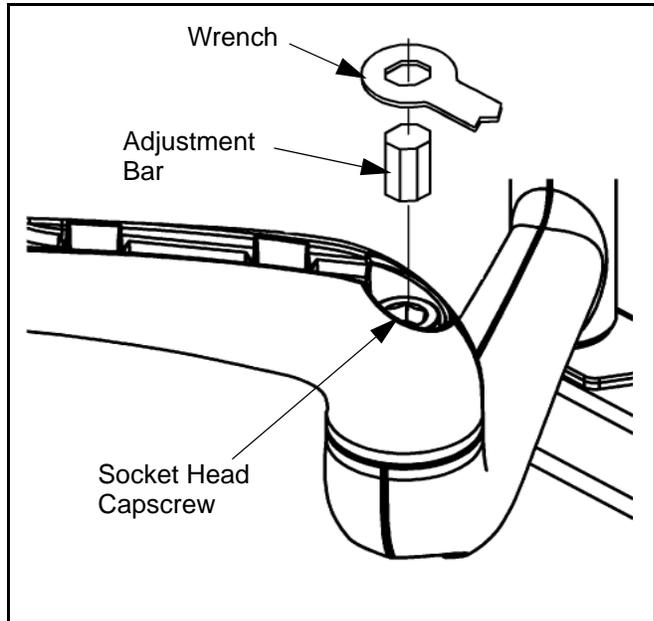


Figure 19: Pivot Arm Tension Adjustment Location

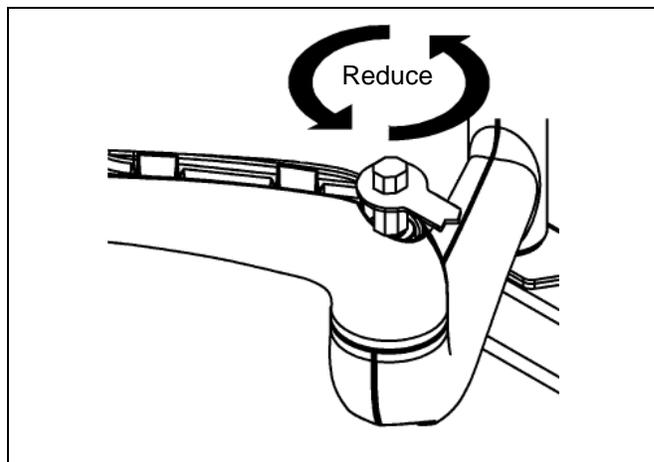


Figure 20: Reduce Swing Arm Tension

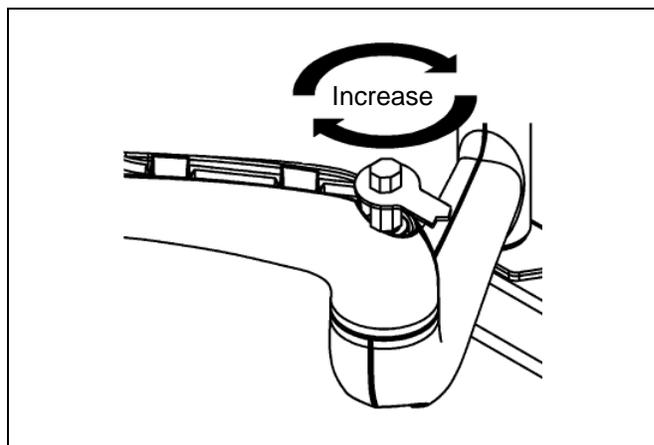


Figure 21: Increase Swing Arm Tension