INSTALLATION INSTRUCTIONS

Midsized Flat Panel Single Arm Wall Mount

Model MSP-SPWH (PWH™)

The MSP-SPWH 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.

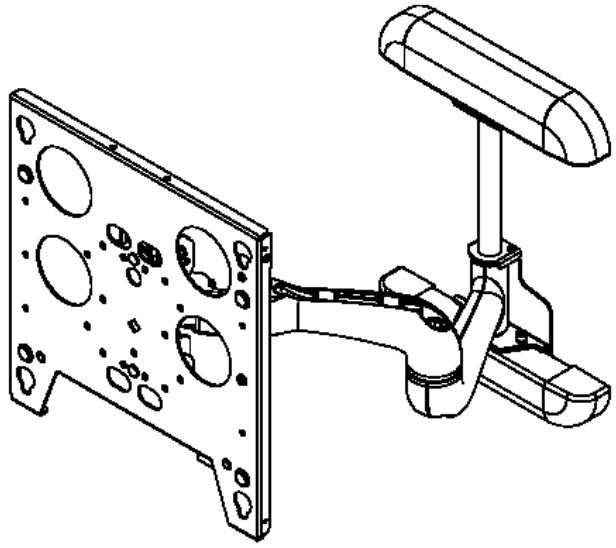
The single arm on the mount:

- Extends from the wall 24-7/8" in length
- Pivots up to 90º left or right of center

The standard mount is shipped with the support post for the single arm centered in the mount. The tilt range for the display is 5º up and 15º down.

The mount was designed for fast installation. After drawing the plumb line and drilling pilot holes into a single wall stud, the installer installs the mount on the wall using lag bolts and washers.

Next, the installer mounts the display and connects the power/audio/video cables, which are diverted into the built-in path in the flexible swing arm. After making the lateral, rotational, and tilt adjustments, the installation process is complete.



BEFORE YOU BEGIN

CAUTION: 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 100 lbs. (45.36kg).
- The wall mount must be installed on a single wall stud 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.

CHIEF® Ideas Supporting Ideas

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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: 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 100 lbs. (45.36kg), 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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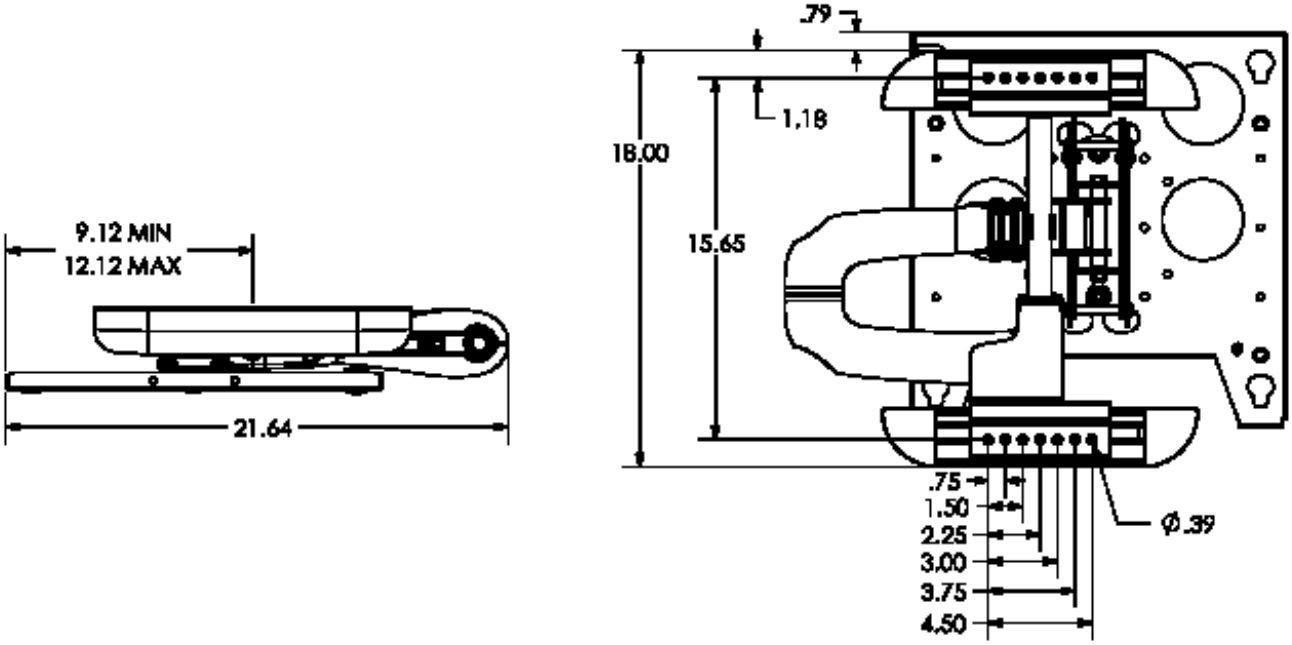
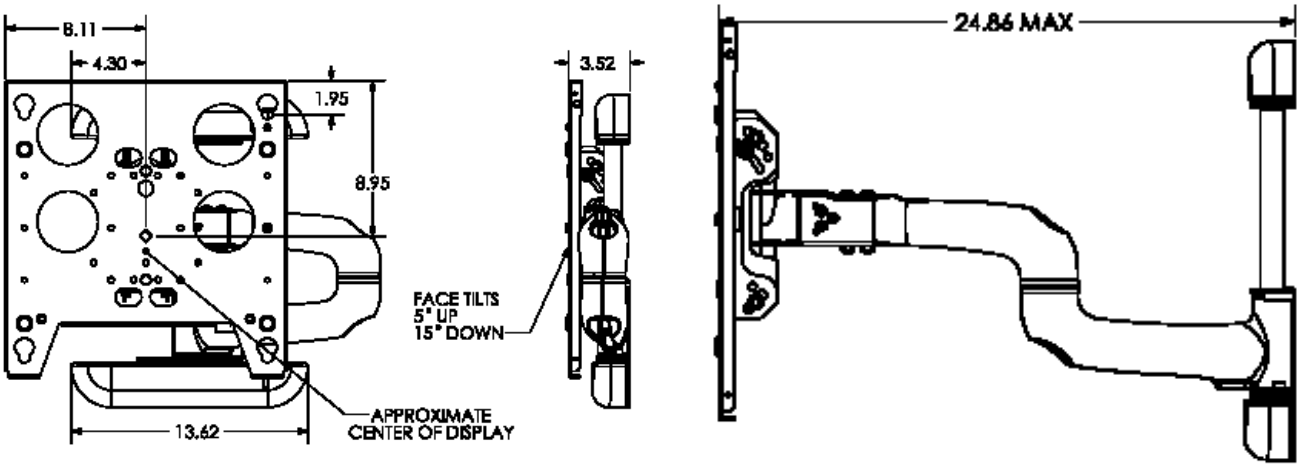
DIMENSIONAL DRAWING





NOTE: CUSTOM INTERAFCE 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 MSB-XXXX DRAWING ALSO.

Inspect The Unit Before Installing

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

1. 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.

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

SPECIFICATIONS

Table 1 provides the specificiations for the mount.

Table 1: Mount Specifications

Model	Max Support Weight	Mount Extended from Wall
MSP-SPWH	100 lbs. (45.36kg)	24-7/8”*****

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

INTERFACES

Table 2 lists the interface for the MSP-SPWH.

Table 2: MSP-SPWH Interface

Model	Interface
MSP-SPWH	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 on page 4. If you are missing any of the listed parts, contact ustomer Service at: 1-800-582-6480.

Table 3: Parts List

REF	DESCRIPTION	QTY
10	MSP-SPWH Wall Mount	1
20	Cover Plates	2
30	End Caps	4
40	Tiewraps	12
—	Lag Bolts (required, not supplied)	4
—	Flat Washers (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.

Locate Single Wood Stud

1. Determine the exact mounting location prior to installation, considering screen size and the unit's total swing arm radius. Keep in mind that the pilot holes must be drilled in the center of a wood stud or other supporting framework.

NOTE: Install the mount on a single wall stud or other supporting framework that is vertical or horizontal.

2. Using a stud sensor, locate the wood stud where you will mount the mount (see figure 1).
3. Draw a level line to indicate the desired height of the top mounting bracket.
4. With an assistant, lift and hold the mount against wall.

NOTE: The mount can be fastened to the wall stud using any parallel set of mounting holes on the top and bottom brackets.

5. Select the mounting holes on the top bracket and bottom where the lag bolt will be installed (see figure 2). Use a pencil, awl, or small nail to mark the mounting hole where the pilot hole will be drilled into the center of the wood stud.
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 mount (see figure 1).
   a. If you use 5/16" lag bolts (not included), use a 7/32" drill bit.
   b. If you use 3/8" lag bolts (not included), use a 9/32" drill bit.

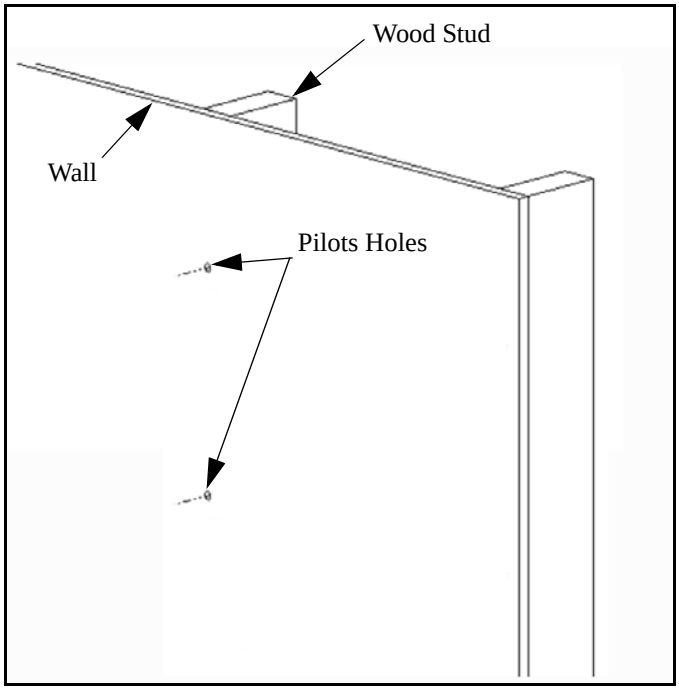


Figure 1: Single Wood Stud

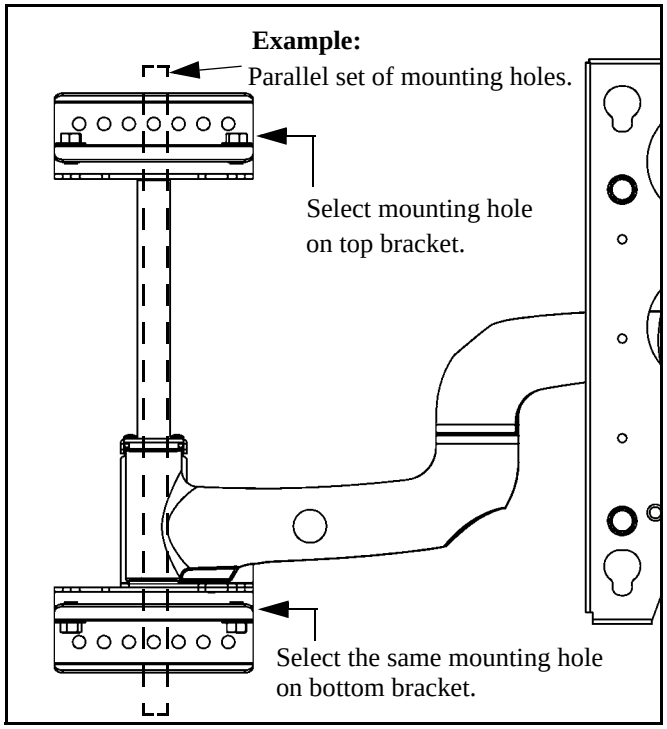


Figure 2: Select Parallel Mounting Holes

Install the Mount

1. With an assistant, lift the mount into place on the wall.

WARNING:Improper installation can result in serious personal injury!

NOTE: Make sure the washer is installed in front of the top bracket, not behind the bracket.

NOTE: Lag bolts and flat washers are not supplied.

2. In the mounting hole of your choice, install a lag bolt and flat washer in the top bracket using the pilot hole previously drilled. See Figure 3 for an example.
   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.
3. Repeat Step 2 to install a lag bolt using the same mounting hole in the bottom bracket.
4. Tighten the lag bolts.

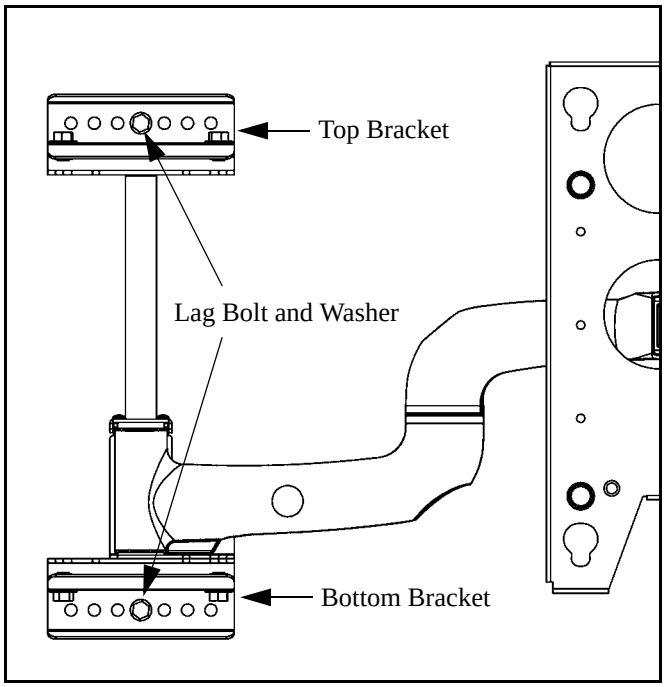


Figure 3: Install The Mount

Install Cover Plates and End Caps

1. Install cover plates (20) over the top and bottom mounting brackets. (see figure 3)
2. Install end caps (30) on the ends of both cover plates (20). See Figure 4.

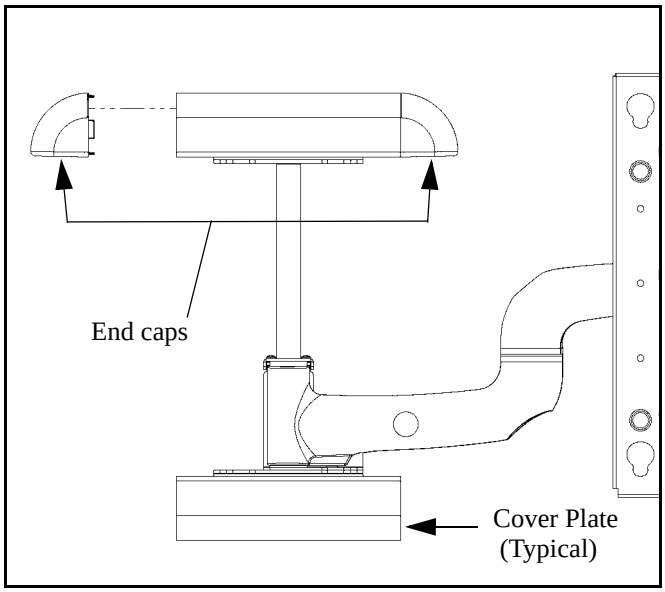


Figure 4: Install Cover Plates

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 figure 5), secure the mounting button with the chamfered hole of mounting button (larger surface) facing the bracket (see figure 6).
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 7).
4. Attach mounting bracket to the display (see figure 8), as follows:
   a. For 32” screens, use the M5 screws.
   b. For 42” 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

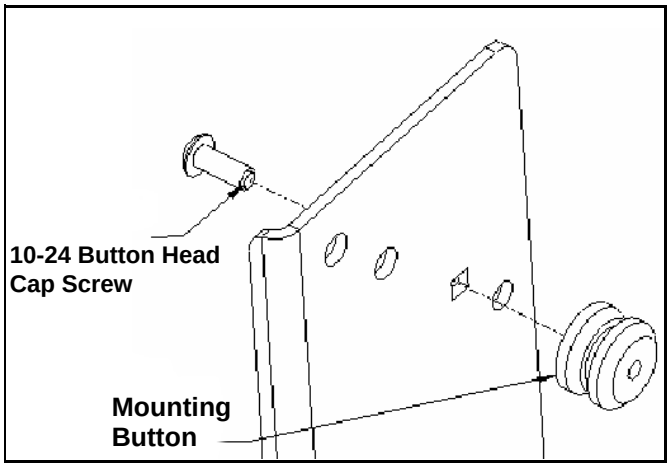


Figure 5: Mounting Button Attachment

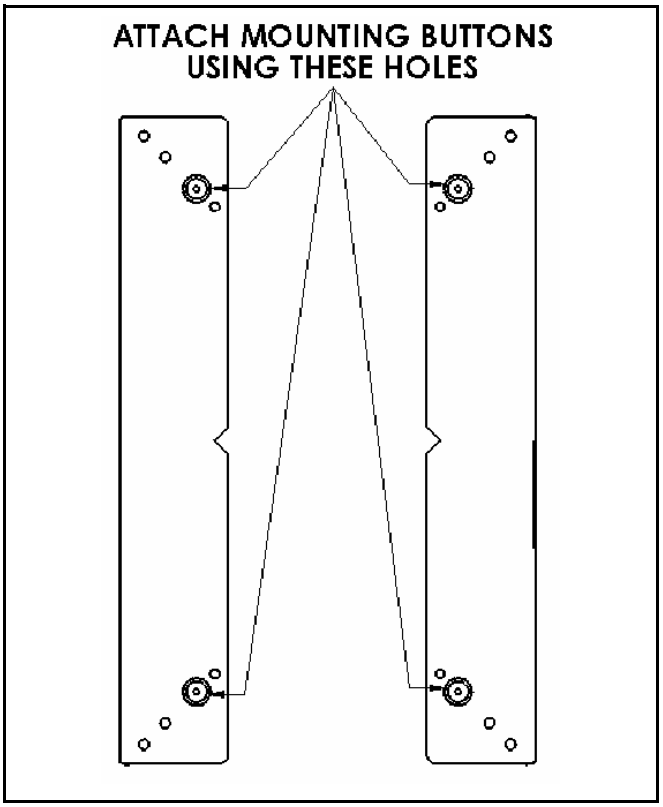


Figure 6: Mounting Button Location

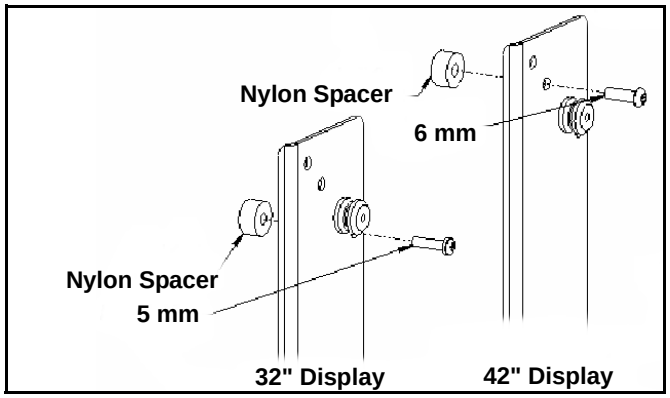


Figure 7: Bracket Hole Location

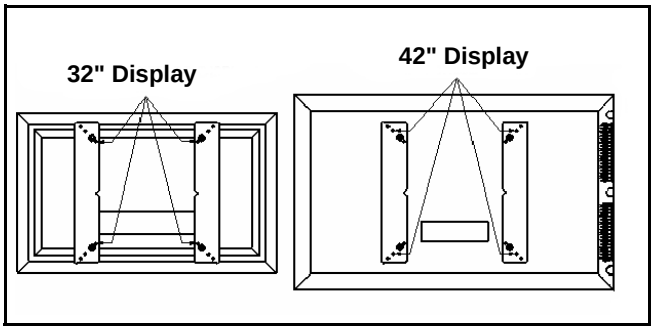


Figure 8: Bracket Attachment Location

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 9) 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-2095 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 9).

   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.

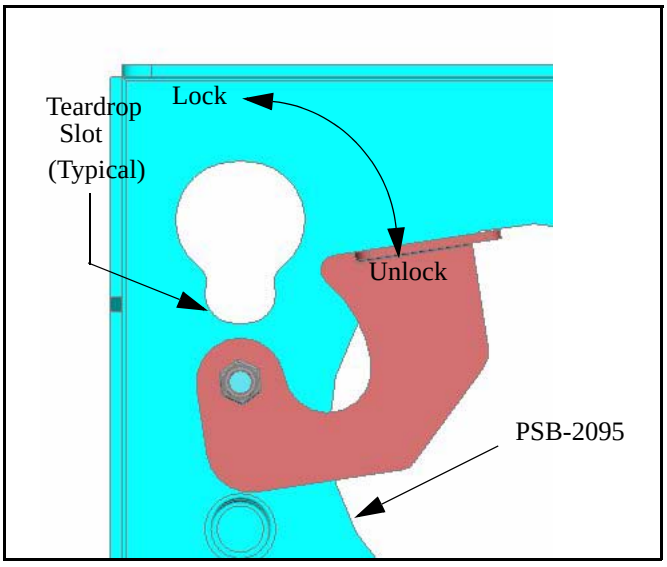


Figure 9: Locking Device

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 10), allowing sufficient slack in cables for extension and avoiding pinch points, and secure cables using two clips and two tiewraps (40, not shown).
2. Route power/audio/video cables along bottom arm (see Figure 11), using tiewraps (40, 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.

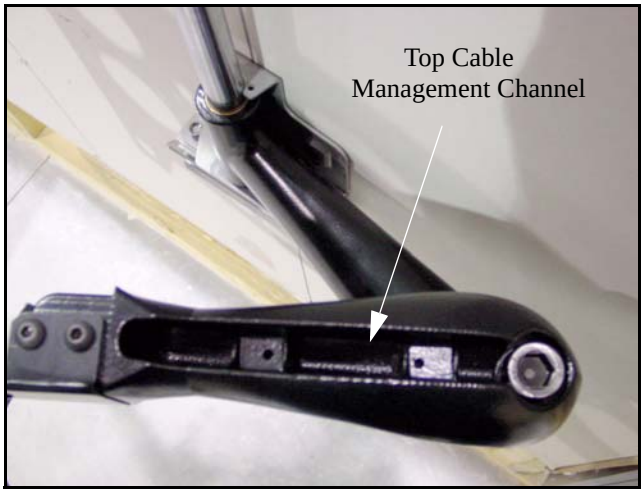


Figure 10: Cable Management Channel (Top)

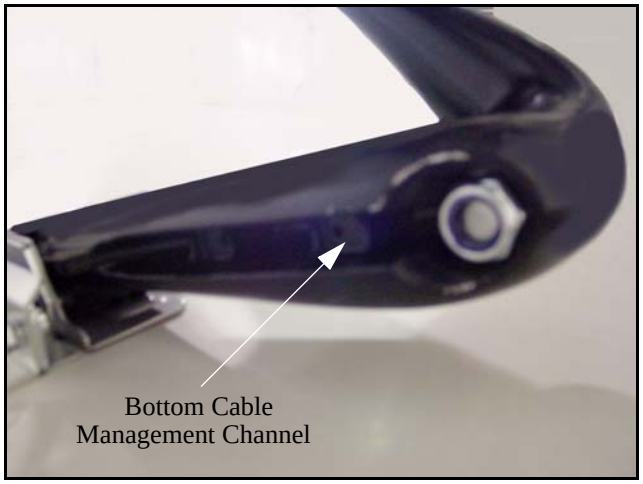


Figure 11: Cable Management Channel (Bottom)

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 12).
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 13).
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 14).
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 12: Vertical Tilt

Figure 13: Lateral Tilt

Figure 14: Rotational Adjustment

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 ajustment bar and wrench provided with the mount.
2. Place adjustment bar into socket head cap screw located at swing arm pivot point. (See figure 15)

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 16) and (See figure 17)

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 displait may be necessary to increase swing Arm tension.

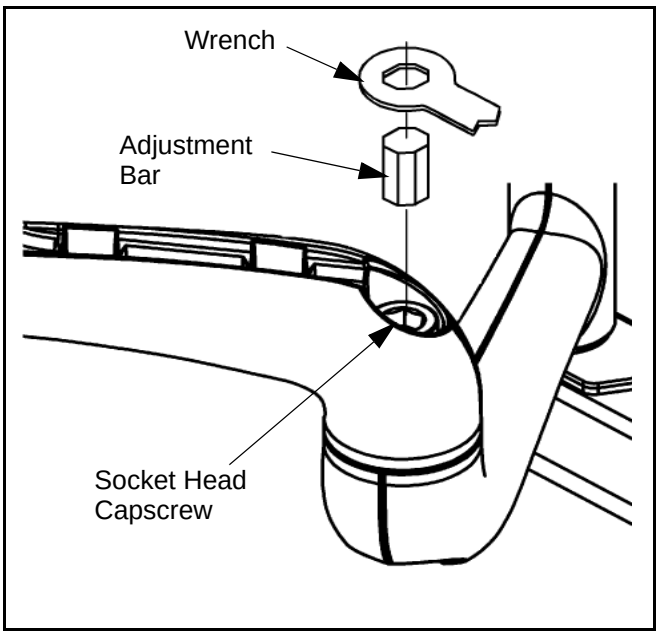


Figure 15: Pivot Arm Tension Adjustment Location

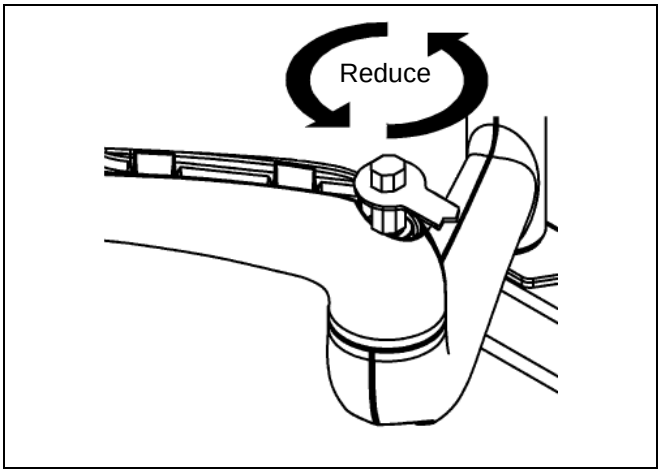


Figure 16: Reduce Swing Arm Tension

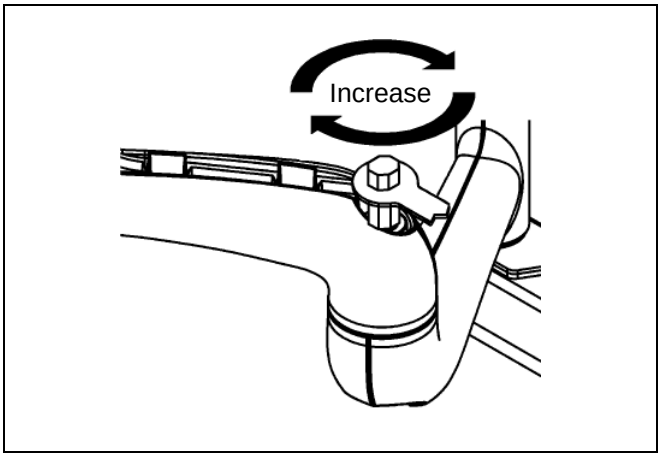


Figure 17: Increase Swing Arm Tension