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# INSTALLATION INSTRUCTIONS

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## Midsized Flat Panel Single Arm Wall Mount

### Model PWH™

The PWH is wall-mounted, rugged, versatile, and installer-friendly. The mount is compatible with the PSB series interface bracket in which a display can be mounted in either the landscape or portrait position.

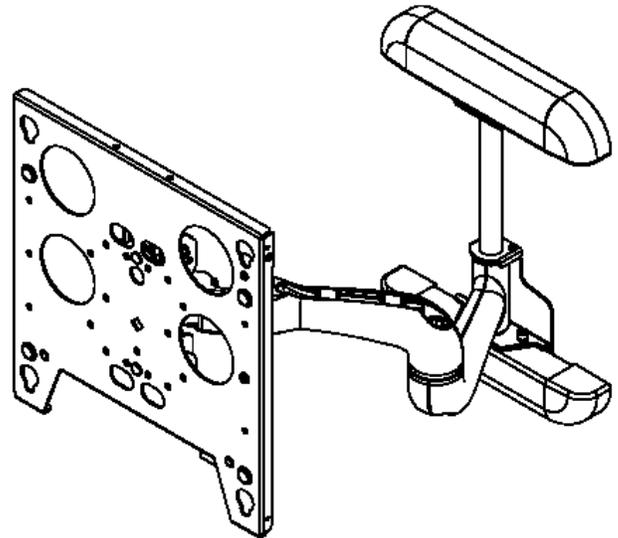
The single arm on the mount:

- Extends from the wall 24-7/8" in length
- Pivots up to 90° 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 5° up and 15° 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.



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#### 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.



**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 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 mount and brackets are correctly oriented.

**⚠ WARNING!**

Make sure flag securing the display is completely lowered at all times except when removing or installing 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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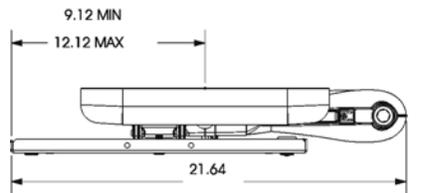
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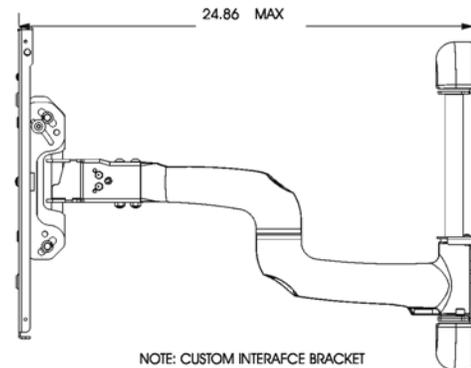
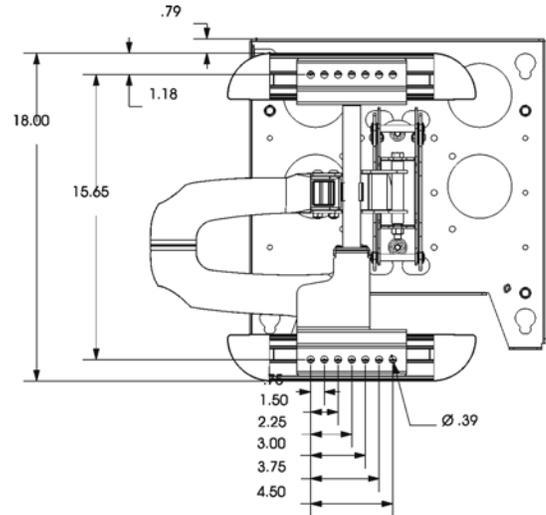
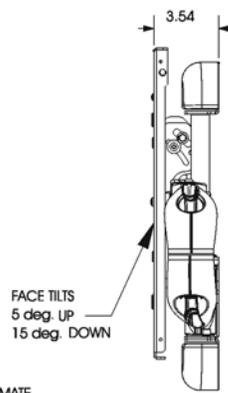
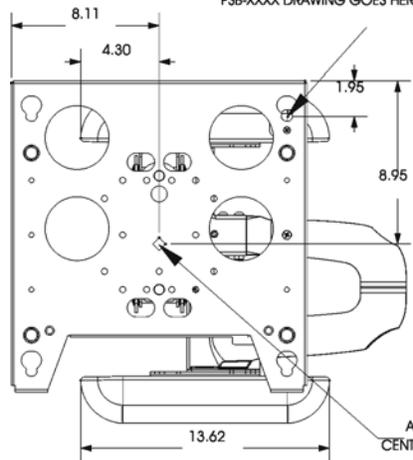
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DIMENSIONAL DRAWING



TOP MOUNTING BUTTON ON  
PSB-XXXX DRAWING GOES HERE



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 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
PWH	100 lbs. (45.36kg)	24-7/8"

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

### 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 customer Service at: 1-800-582-6480.

Table 2: 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.

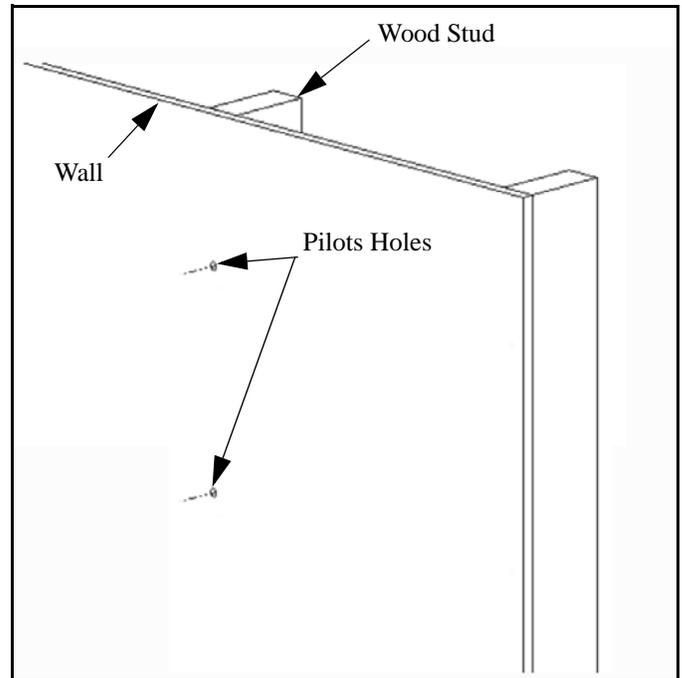


Figure 1: Single Wood Stud

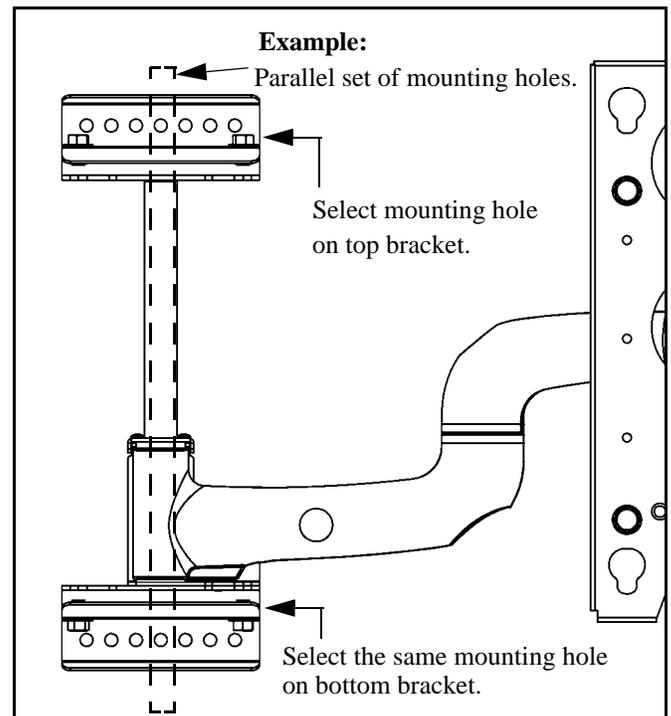


Figure 2: Select Parallel Mounting Holes

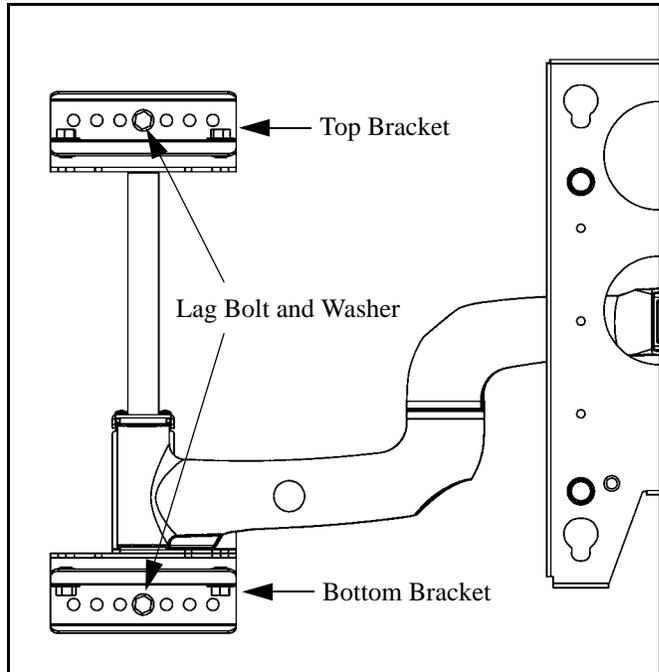
## Install the Mount

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.

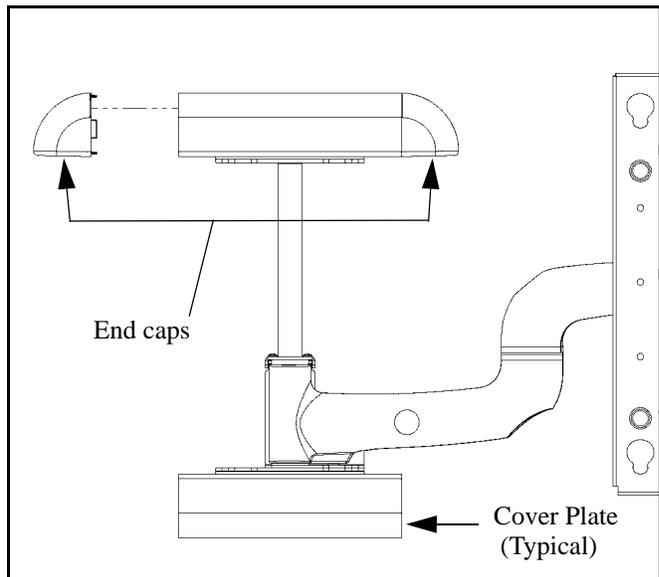
2. In the mounting hole of your choice, install a lag bolt and flat washer in the top bracket using the pilot hole previously drilled. See Figure 3 for an example.
  - a. If you used a 7/32" drill bit, use 5/16" lag bolts and 5/16" flat washers, minimum.
  - b. If you used a 9/32" drill bit, use 3/8" 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**

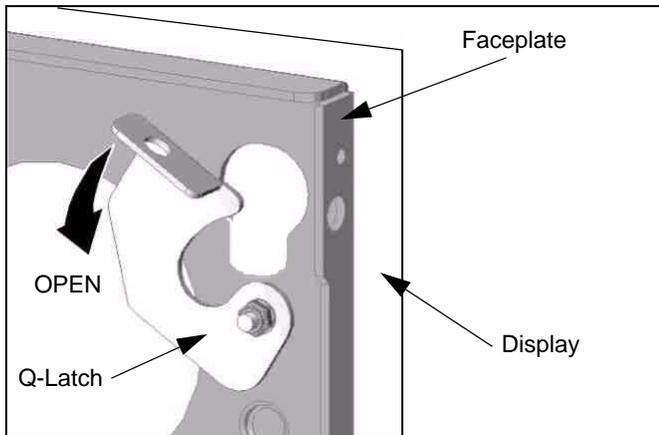
### Mount the Display

See PSB instructions for additional information on mounting the display.

**⚠ WARNING!**

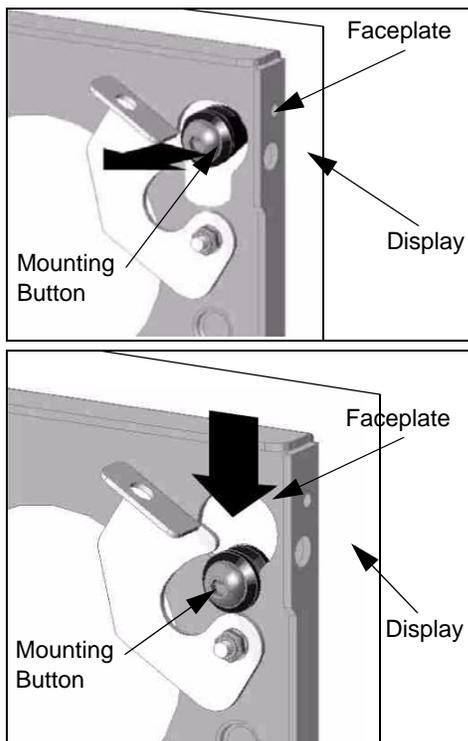
DO NOT attempt to hang display on stand with one person.

1. Make sure Q-Latch is in the OPEN position so it will not obstruct display installation (see Figure 5).



**Figure 5: Open Q-Latch**

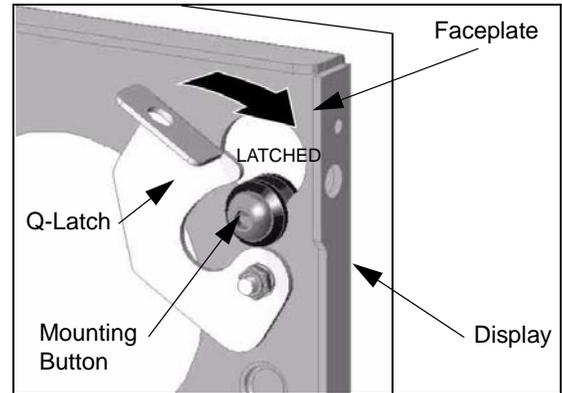
2. With one person supporting each side of the display, align the four mounting buttons with the four teardrop slots in faceplate (see Figure 6).



**Figure 6: Align Display**

3. Secure display by placing the Q-Latch in the "Latched" position (see Figure 7).

**NOTE:** A hole is provided in the Q-Latch and faceplate to accommodate the insertion of a padlock or similar locking device.



**Figure 7: Close Q-Latch**

## 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 8), allowing sufficient slack in cables for extension and avoiding pinch points, and secure cables using two clips and two tiwraps (40, not shown).
2. Route power/audio/video cables along bottom arm (see Figure 11), using tiwraps (40, not shown) to secure cables to each arm, and through cable channel.

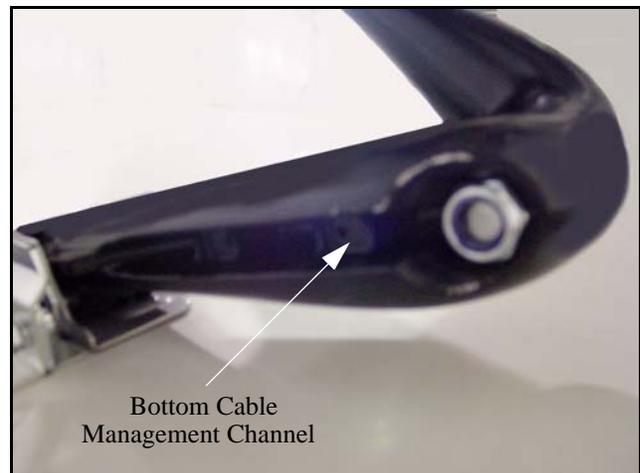
### ⚠ CAUTION!

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 8: Cable Management Channel (Top)**



**Figure 9: 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 10).
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 11).
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 12).
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 10: Vertical Tilt



Figure 11: Lateral Tilt



Figure 12: 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 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 13)

**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 14) and (see Figure 15)

**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.

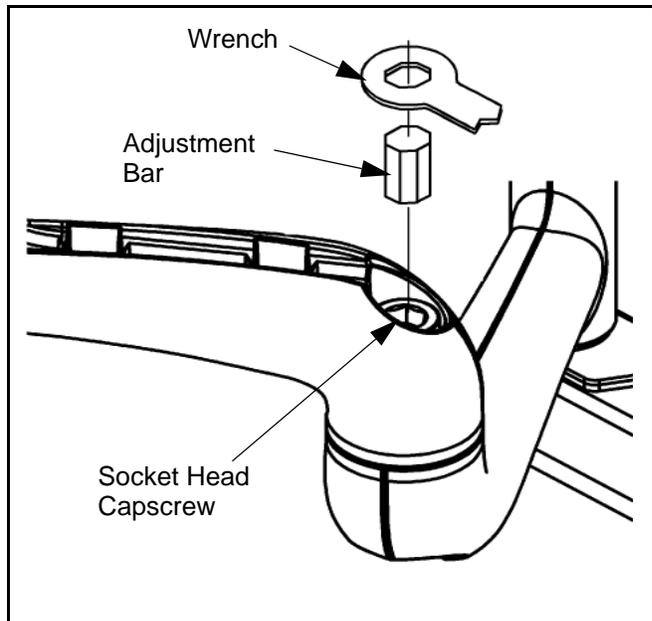


Figure 13: Pivot Arm Tension Adjustment Location

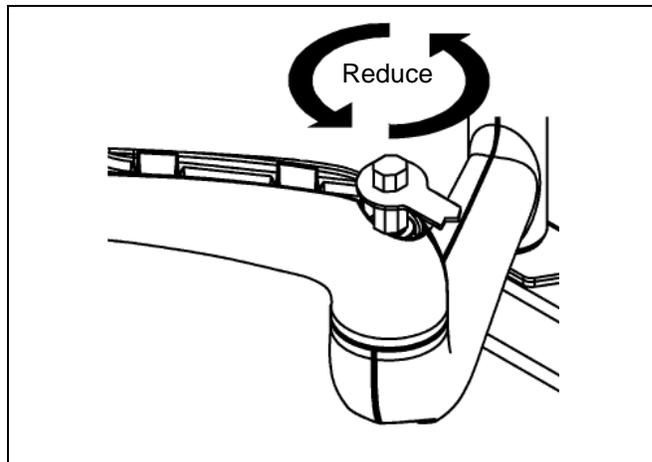


Figure 14: Reduce Swing Arm Tension

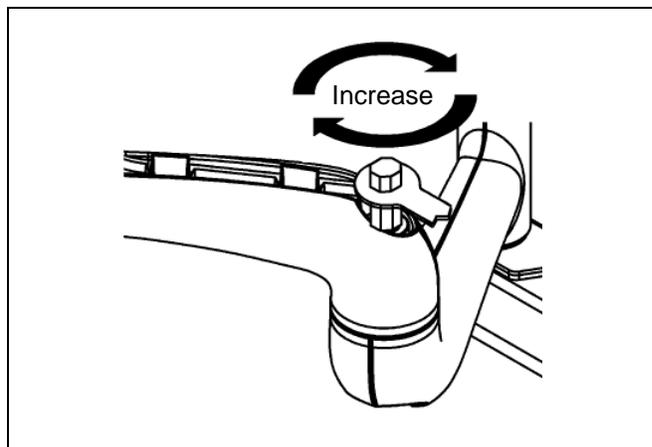


Figure 15: Increase Swing Arm Tension