

Installation Instructions Manual

# Adjustable Height Monitor (AHM) Arm



**Amico**

# Preface

## **IMPORTANT, PLEASE READ CAREFULLY**

Thank you for your purchase with Amico Accessories Inc.

This unit is designed for long lasting performance, providing the end user complies with assembly and maintenance procedures. This Instruction Manual is your guide to ensure that you get the best performance out of the equipment. Amico Accessories is not responsible for any damage as a result of (but not limited to) abuse and other problems that may be a direct or indirect result of failure to comply with the instructions provided in this manual.

### **Please note these key words and symbols:**



#### **WARNING**

Steps where extra care should be taken to prevent injuries and damage.



#### **NOTE**

Steps that point out helpful information.

### **Medical Facility Responsibilities**

Preventive maintenance checks must be performed regularly to maintain the quality and performance of this product. Any parts that may be broken, missing, worn, distorted, or contaminated in any way should not be used and all affected parts should be replaced immediately. Should the necessity of any repair be suspected; please contact your local distributor or call 1-877-264-2697.

# Table of Contents

<b>Section 1: Installation Preparation</b>	<b>4-6</b>
Installation Tools Requirements	4
Pre-Installation Information	5
Typical Installation Reference for AHM	6
<b>Section 2: Installation on Rail Systems</b>	<b>7-11</b>
Mounting to the Monitor Rail System (MRS) with the MON-adapter	7
OSHPD Anchor Pre-Approval OPA-1743	7
Mounting to Hill-Rom Vertical Rail [With the G-Track Adapter (GTA)]	8
Mounting to the VRS (Vertical Rail System)and the Ohmeda Rail	9-10
Mounting to the ARS (Amico Rail System)	11
<b>Section 3: Monitor Installation</b>	<b>12-18</b>
Monitor Mounting	12
Monitor Shelf: 3" (76.2 mm) Top/Back Mount, 5" (127 mm) Top/Back Mount and VESA	13
Monitor Shelf: 6" (152.4 mm) Drop On	14
Monitor Shelf: Philips IntelliVue	15
Monitor Shelf: Welch Allyn	16
Monitor Mounting: VESA 75/100	17
Accessory Shelf: Disc	18
<b>Section 4: Adjustments</b>	<b>19-27</b>
Rotation (AHM Side To Side)	19
Monitor Tilt	20-21
Rotation (Monitor Head Side to Side)	22
Portrait and Landscape Adjustment	22
Portrait and Landscape Limiter	23
Height Locking Lever Adjustments	23
Attaching the Extension Arm	24
Counterbalance	25
Counterbalance: Fail Safe Mode	26
Cable Management: AHM Arm	27
<b>Section 5: Troubleshooting, Maintenance and Product Classification</b>	<b>28-33</b>
Preventive Maintenance	28-29
Troubleshooting	30
Cleaning	31
Part Number Matrix	32-33
<b>Warranty Information</b>	<b>34</b>


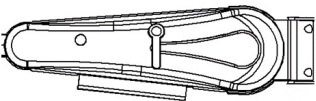

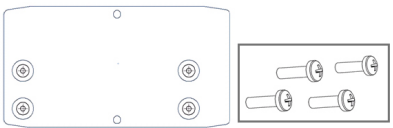

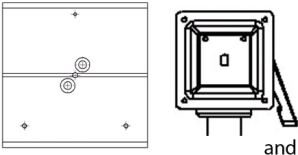

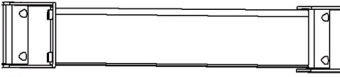
# Section 1: Installation Preparation

## Installation Tools Requirements

The following table lists all the tools and parts required for installation







Item	Item number	Quantity
Phillips screw driver #2	A1	1
Hex keys (1/8" [0.3 cm], 3/16" [0.5 cm], M3, M4)	A2	1 each
Socket wrenches (12 mm [1.2 cm], 1/2" [0.05 cm])	A3	1 each
Adjustable wrench	A4	1
AHM arm	B1	1
Mounting adapter/plate (many options) and Monitor dependant hardware set	B2	1
Mounting shelf (0-9, W)	B3	1
Extension arm (optional)	B4	1

**NOTE:** Amico does not provide any display hardware, nor the tools necessary for assembly (all above in grey text).

	A	B
1		
2		
3		 and more
4		

# Section 1: Installation Preparation

## Pre-Installation Information (Please read carefully before starting)

-  **WARNING:** VERIFY THAT RAILS HAVE BEEN INSTALLED IN ACCORDANCE WITH AMICO RAIL INSTALLATION INSTRUCTIONS. RAIL FAILURE WITH DEVICES MOUNTED CAN CAUSE SERIOUS INJURY AND EQUIPMENT DAMAGE.
-  **WARNING:** IT IS DANGEROUS TO USE THE ARM FOR WEIGHTS OUTSIDE OF THE RATED RANGE. STRUCTURAL FAILURE AND/OR SERIOUS INJURY COULD RESULT.
-  **WARNING:** DO NOT POSITION THE MONITOR ARM ABOVE A PATIENT.
-  **WARNING:** THE AHM MONITOR ARM CONTAINS A STRONG GAS SPRING WHICH IS USED TO COUNTERBALANCE THE WEIGHT OF THE MOUNTED DEVICE. THE ARM HOUSING SHOULD NEVER BE DISASSEMBLED BY NON-AMICO PERSONNEL. FAILURE TO FOLLOW THESE GUIDELINES COULD RESULT IN SERIOUS INJURY. THE MOUNTED DEVICE SHOULD BE WITHIN THE “DUTY WEIGHT RANGE” FOR BEST PERFORMANCE AND RELIABILITY.
-  **WARNING:** IT SHALL BE THE RESPONSIBILITY OF THE HOSPITAL, ITS CONSULTANTS AND/OR CONTRACTORS TO DETERMINE IF THE WALL IS ADEQUATE TO SAFELY MOUNT THE SPECIFIC INSTRUMENT. THIS INCLUDES THE SELECTION OF APPROPRIATE FASTENERS AND THE PROPER INSTALLATION OF EQUIPMENT, REGARDLESS OF WHAT IS SUPPLIED WITH YOUR AHM MONITOR ARM. SEE RAIL INSTRUCTIONS FOR SPECIFIC WALL CHANNEL GUIDELINE INFORMATION.
-  **WARNING:** VERIFY THE WEIGHT OF THE DEVICE TO BE MOUNTED. (AHM LCD AND PATIENT MONITOR ARMS ARE RATED AT 40 LBS (18.1 KG) OF LOAD, THIS RATING APPLIES TO ALL AHM WITH OR WITHOUT EXTENSIONS). (PLEASE REFER TO WEIGHT RATING LABEL, LOCATED EITHER ON THE TOP OR BOTTOM OF THE ARM ASSEMBLY, DEPENDING ON THE MODEL). CHECK THAT THE DEVICE TO BE MOUNTED DOES NOT EXCEED THE WEIGHT RATING. SERIOUS INJURY AND DAMAGE TO THE ARM CAN OCCUR AS A RESULT OF OVERLOADING ARM ASSEMBLY. THE ABOVE WEIGHT RATING APPLIES TO ALL UNITS WITH EXTENSIONS.

For installation on non-Amico rails, ensure the rail is safe for the application.

If you are unsure about any part of the installation process or product use, please contact an Amico Accessories product Specialist: 1-877-264-2697

Considerable efforts have been made to ensure the safety of your hospital staff and your patients. The installation itself is beyond the control of Amico Accessories. Accordingly, Amico Accessories will not be responsible for failure related to the installation of the product.

**HAVE A PRODUCT QUESTION? GIVE US A CALL AT: 1-877-264-2697**

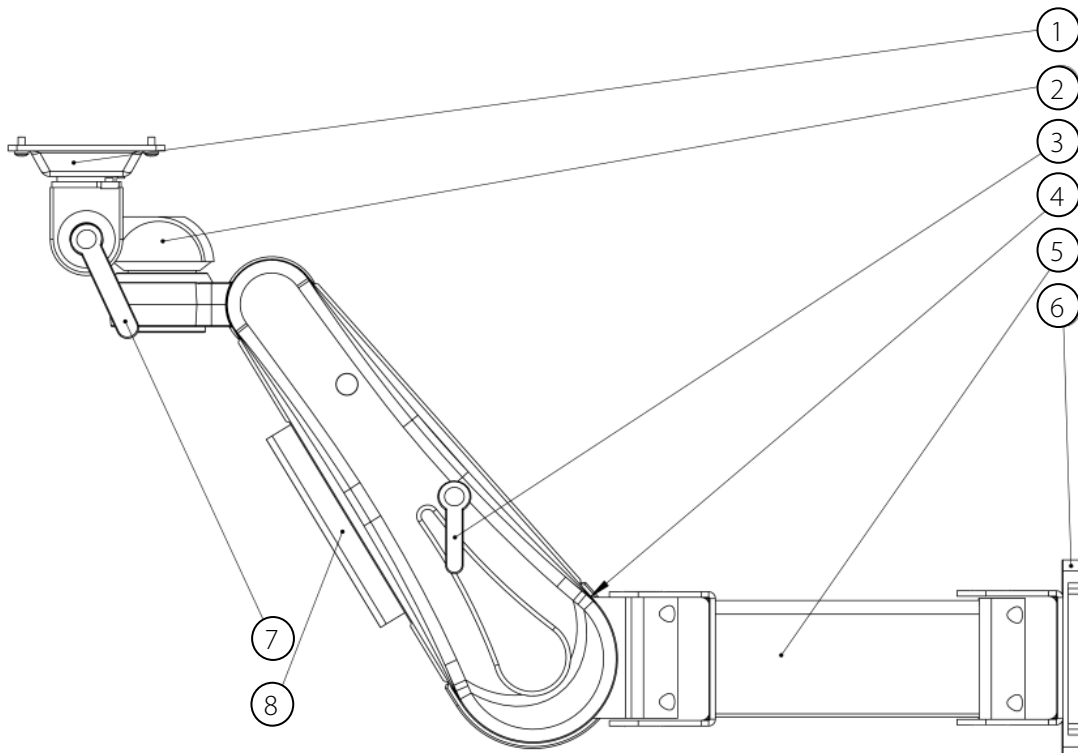
# Section 1: Installation Preparation

## Typical Installation Reference for AHM

The diagram below illustrates the components referenced in relation to one another in the installation of the AHM Monitor Arm. Please follow the instructions outlined herein to ensure proper installation.

### AHM MONITOR ARM

- 1. Monitor Mounting Adapter**  
VESA LCD mount shown, other options available
- 2. Monitor Head - Rotation**  
Monitor rotation adjustment
- 3. Height Locking Lever**  
Locks the arm at a desired height
- 4. Counter Balance**  
Used to adjust for zero movement
- 5. Extension Arm**  
6" (152.4 mm) extension arm shown
- 6. Mounting Adapter**  
MON adapter shown for MRS rail
- 7. Monitor Head - Tilt**  
Tilt Adjustment Handle
- 8. Cable Management**  
Manages the cables of the monitor for better organization



# Section 2: Installation on Rail Systems

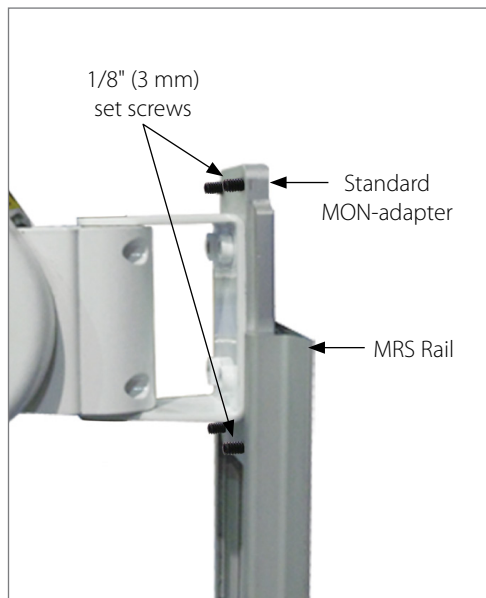
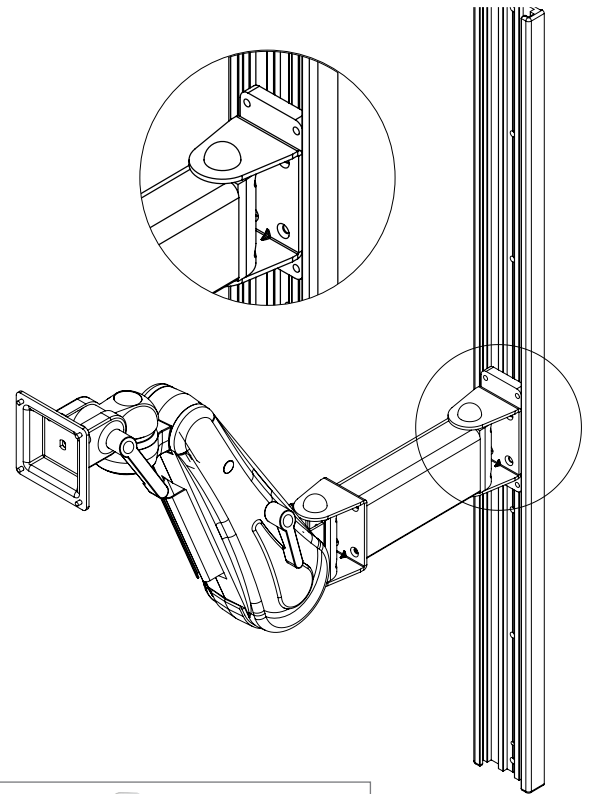
## Mounting to the Monitor Rail System (MRS) with the MON-adapter

**⚠ WARNING:** NEVER ATTEMPT TO MOUNT OR REMOVE THE ARM FROM THE RAIL WHEN A MONITOR IS INSTALLED.

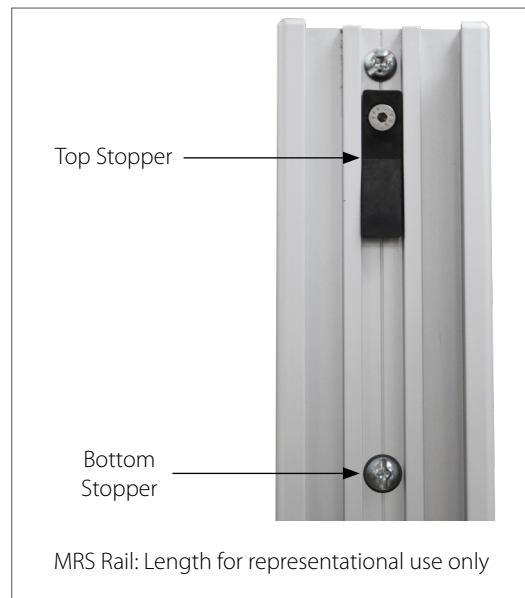
**⚠ WARNING:** TO PREVENT THE ADAPTER FROM FALLING DOWN THE CHANNEL, ENSURE THAT THE FOUR SET SCREWS ARE FASTENED TO THE TIGHTEST POSSIBLE POSITION (**FIGURE 1**).

**i NOTE:** For safety, top and bottom stoppers prevent the adapter from sliding out of the MRS. To remove, the adapter must be taken out from the top of the rail with the top stopper pressed back into the rail (**FIGURE 2**).

1. With the AHM arm locked in the highest vertical position, support the bottom of the arm and guide the MON-channel adapter into the top of the wall channel.
2. Once the arm is at the desired height, tighten all four screws on the MON-channel adapter using a 1/8" (3 mm) hex key (**FIGURE 1**).



**Figure 1**



**Figure 2**

## OSHPD Anchor Pre-Approval OPA-1743

In compliance with standards established for the anchor and installation of instrument support systems by the California Office of Statewide Health Planning and Development (OSHPD), Amico Accessories Inc. has obtained preapproval for MRS 19" (48.26 cm) Wall Channels or longer with extension arm. For proper installation requirements please refer to our OPA Document.

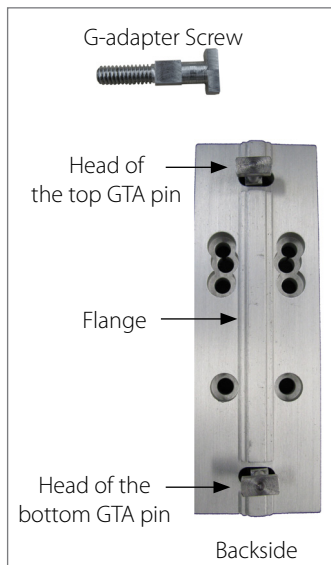
## Section 2: Installation on Rail Systems

### Mounting to Hill-Rom Vertical Rail (With the G-Track Adapter [GTA])

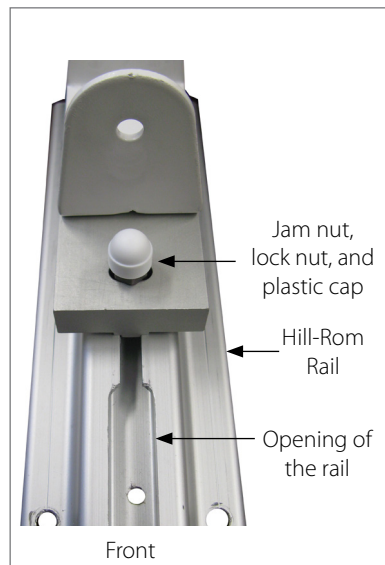
**⚠ WARNING:** TO PREVENT THE ADAPTER FROM FALLING DOWN THE CHANNEL, ENSURE THAT THE SCREWS ARE SECURED TO THE TIGHTEST POSSIBLE POSITION. AFTER INSTALLATION, ROTATE THE AHM ARM SIDE TO SIDE AND VERIFY NO MOVEMENT IS PRESENT BETWEEN THE ADAPTER AND THE RAIL.

**⚠ WARNING:** REMOVAL OF LOCK NUTS WILL REQUIRE A NEW SET FOR REINSTALLATION. PLEASE CONTACT AMICO ACCESSORIES INC. FOR SPARE PARTS, **1-877-264-2697**.

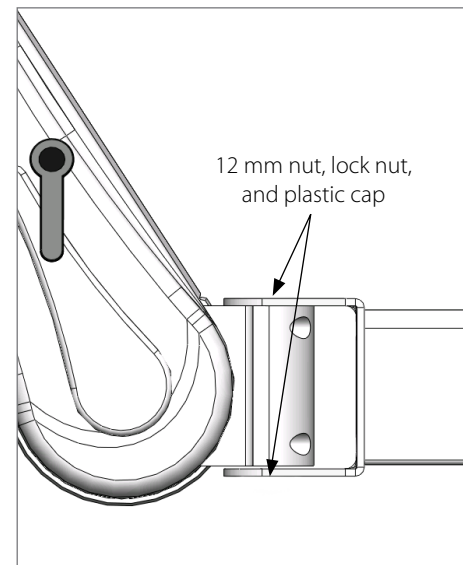
1. With the AHM arm locked in the highest vertical position, support the bottom of the arm and guide the head of the top screw into the opening of the rail (**Figure 1**). Ensure the flange on the GTA is properly aligned with the rail. Slide the GTA up so that the head of the bottom screw slides into the opening of the rail.
2. Position the arm to the desired height. Tighten the jam nuts and then the lock nuts on the top and bottom of the adapter using a 12 mm wrench (**Figure 2**). Cover the nuts with the plastic caps provided (**Figure 3**).



**Figure 1**



**Figure 2**



**Figure 3**



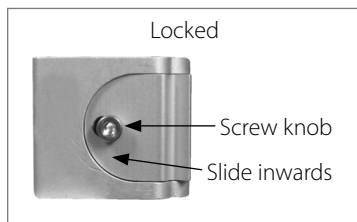
# Section 2: Installation on Rail Systems

## Mounting to the VRS (Vertical Rail System) and the Ohmeda Rail

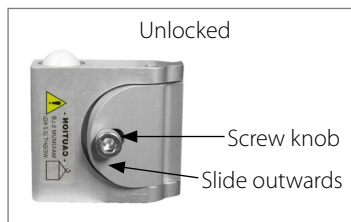
- WARNING:** Both adapters must be sitting in the rail securely.
- WARNING:** To prevent the adapter from falling down the channel ensure that the screw knobs are fastened to the tightest possible position. After the installation, rotate the AHM arm side to side to verify that no movement is present between the adapters and the rail.
- WARNING:** Please be sure to fasten the nuts to the screw knobs since screw knobs alone are not safe to hold the weight of the monitor (**Figures 3 and 6**).
- NOTE:** On the side of the V-adapter and the D-adapter there are screw knobs that lock the adapter into the rail once secured. When you turn the knob counter-clockwise the side of the adapter moves outwards, putting the adapter into an unlocked position (**Figures 1 and 4**). When the knob is turned clock-wise the side of the adapter moves inwards, putting the adapter into a locked position (**Figures 2 and 5**).

V-adapter for the VRS: Sliver adapter (**Figures 1 to 3**).

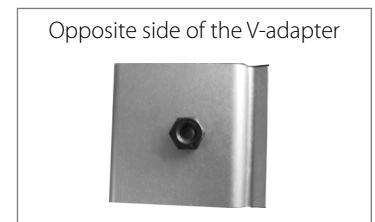
D-adapter for the Ohmeda rail: Black adapter (**Figures 4 to 6**).



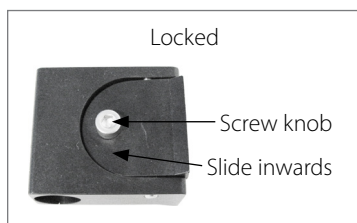
**Figure 1**



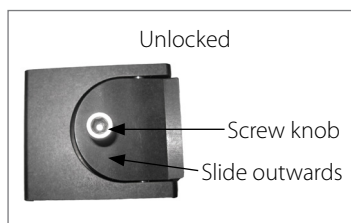
**Figure 2**



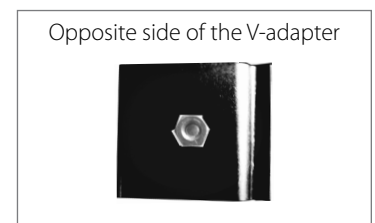
**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**

# Section 2: Installation on Rail Systems

## Mounting to the VRS (Vertical Rail System) and the Ohmeda Rail

1. Ensure the V-adapter (or the D-adapter) is in the UNLOCKED position, and ensure the AHM arm is LOCKED in the highest vertical position.
2. Angle the adapters into the groove of the channel. Then straighten once inserted (**Figures 4 and 5**).
3. Tighten screw knobs with a 3/16" (4.76 mm) HEX key when adapter is at desired height. Once tightened, the screw knob will protrude from the other side. Fasten the nut to the screw to secure the adapter. Check all nuts and screw knob are tightened to ensure V-adapter is locked (**Figure 6**).

V-adapter: Silver adapter (**Figure 1 and 2**).

Dovetail adapter: Black adapter (**Figure 4 and 5**).



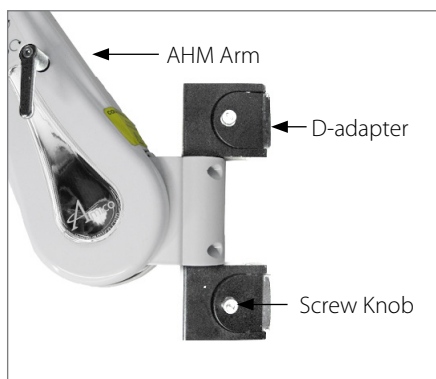
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**

# Section 2: Installation on Rail Systems

## Mounting to the ARS (Amico Rail System)

**⚠ WARNING:** NEVER ATTEMPT TO MOUNT OR REMOVE THE ARM FROM THE RAIL WHEN A MONITOR IS INSTALLED.

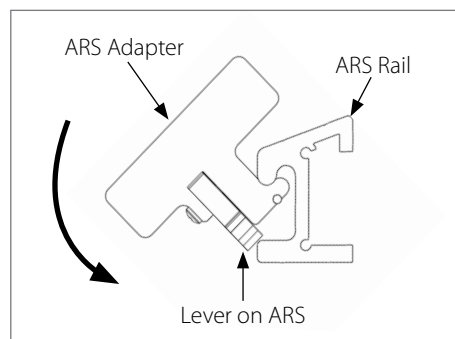
**⚠ WARNING:** YOUR AHM IS PRE-ASSEMBLED WITH THE ARS ADAPTER(S), ENSURE THAT THE ARS ADAPTER IS SITTING INSIDE THE RAIL PROPERLY BEFORE INSTALLING A MONITOR. DO NOT INSTALL THE AHM WITH JUST ONE ADAPTER. BOTH ARS ADAPTERS MUST BE INSTALLED. ONLY EXCEPTION IS IF YOUR UNIT IS TO BE INSTALLED ON A SINGLE ARS RAIL. IN THIS CASE, ENSURE THE SUPPORT BLOCK IS SITTING FLUSH AGAINST THE WALL.

### (Following steps apply only to units to be mounted on a headwall)

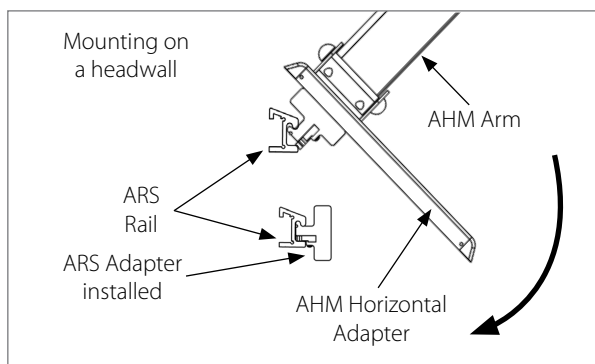
1. Determine the best location to install the AHM arm, then remove the two screws at the bottom of the AHM horizontal adapter to free one of the ARS adapters. Install the freed ARS adapter into the bottom rail by angling the upper lip into the inside lip of the ARS rail, hold the tab on the ARS and push the ARS adapter into the rail. Once secure, release the tab (**Figure 1**).
2. Mount the AHM arm by angling the top ARS adapter attached to the ARS horizontal adapter in the same way as step 1, ensuring the two holes on the bottom ARS adapter can be seen through the AHM horizontal adapter, secure the two Philips screws from the bottom of the AHM horizontal adapter (**Figure 2**).

### (Following step applies only to units to be mounted on a single rail)

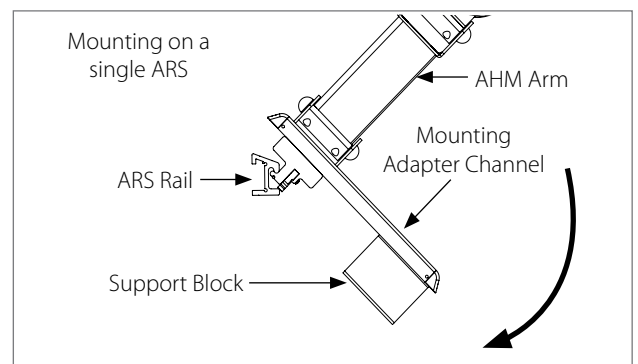
3. Install the AHM arm by installing the ARS adapter attached to the AHM arm by angling the upper lip into the inside lip of the ARS rail, hold the tab on the ARS and push the ARS adapter into the rail. Once it is secure, release the tab ensure the support block is sitting flush and firmly against the wall (**Figure 3**).



**Figure 1**



**Figure 2**

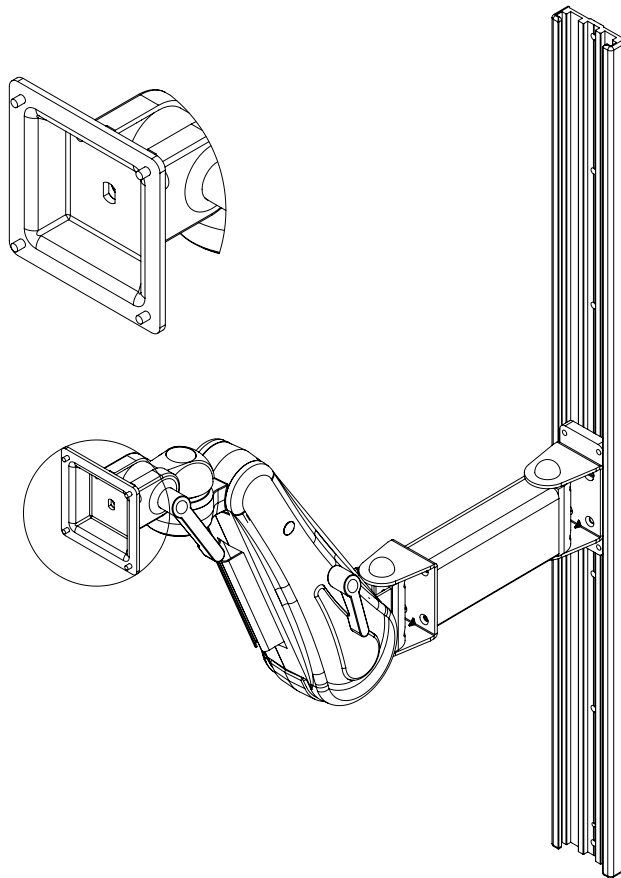


**Figure 3**

# Section 3: Installation to Monitor and Accessory

## Monitor Mounting

- ⚠ WARNING:** ENSURE THAT THE ARM IS IN THE HIGHEST POSITION AND IS LOCKED BEFORE MOUNTING OR REMOVING THE ARM FROM THE CHANNEL.
- ⚠ WARNING:** ENSURE THE MONITOR SHELVES/PLATES PROVIDED BY AMICO ACCESSORIES INC. OR OTHER MANUFACTURERS ARE ASSEMBLED AS DIRECTED AND MATCH THE SHELF REQUIREMENT. IF A MONITOR SHELF OR PLATE DOES NOT MATCH THE REQUIREMENT, PLEASE CONTACT AMICO ACCESSORIES INC., **1-877-264-2697**.
- ℹ NOTE:** Amico Accessories Inc. carries a variety of Mounting Shelves and adapters that attach to the AHM Arm. View the AHM Matrix on page 32 and 33 for more information.



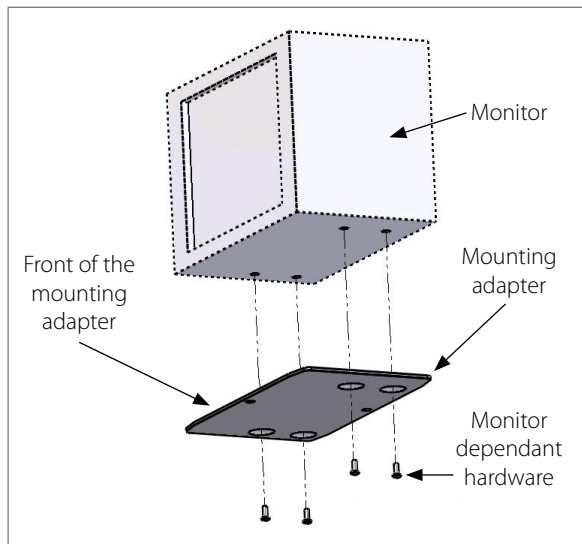
# Section 3: Installation to Monitor and Accessory

## Monitor Shelf: 3" (76.2 mm) Top/Back Mount, 5" (127 mm) Top/ Back Mount and VESA

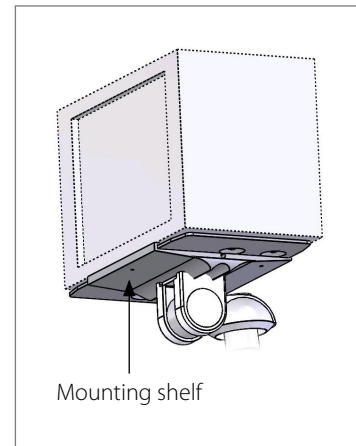
**⚠ WARNING:** ENSURE THE MOUNTING SHELF IS SECURELY LOCKED AND HORIZONTAL TO PREVENT THE MONITOR FROM SLIDING AND FALLING.

**⚠ WARNING:** ON THE BOTTOM OF THE MOUNTING SHELF THERE IS A PLUNGER THAT SECURES THE SHELF TO THE MOUNTING ADAPTER. SIMPLY PULL DOWN ON THE PLUNGER, ALIGN THE ADAPTER PLATE WITH THE SHELF AND RELEASE THE PLUNGER ONCE POSITIONED OVER THE CLEARANCE HOLE (**FIGURE 3**).

**📘 NOTE:** The plunger can be locked in the open position by pulling and twisting it.

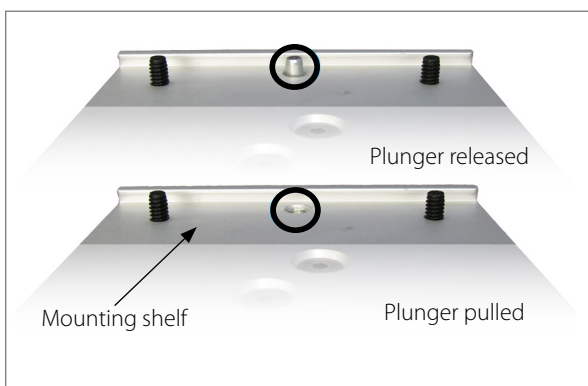


**Figure 1**

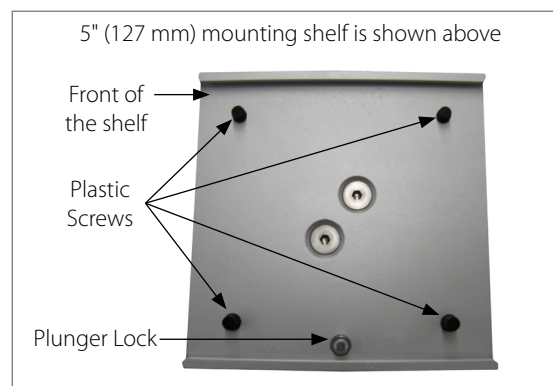


**Figure 2**

1. First install the mounting adapter to the device (please refer to the adapter installation manual provided with the adapter) (**Figure 1**).
2. Loosen the plastic screws on the bottom side of the mounting shelf. Pull down on the plunger lock at the bottom of the mounting shelf and twist it to keep it open. Slide the adapter laterally onto the mounting shelf until the plunger aligns with the clearance hole at the front of the mounting adapter (**Figure 3**).
3. Release the plunger and tighten the plastic screws by hand (**Figure 4**).



**Figure 3**



**Figure 4**

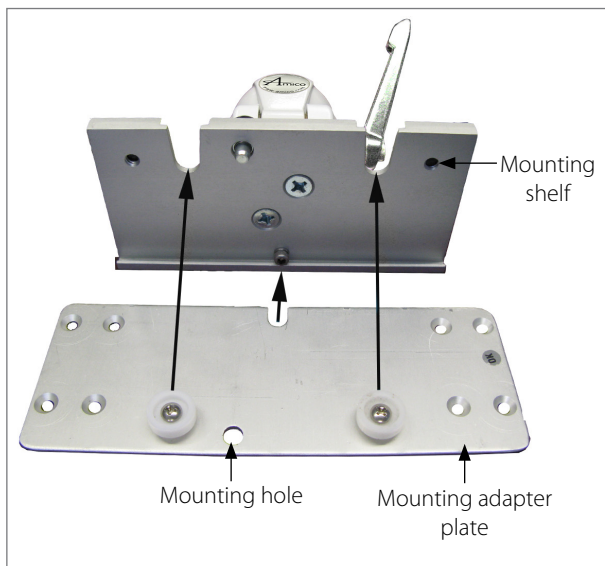
## Section 3: Installation to Monitor and Accessory

### Monitor Shelf: 6" (152.4 mm) Drop On

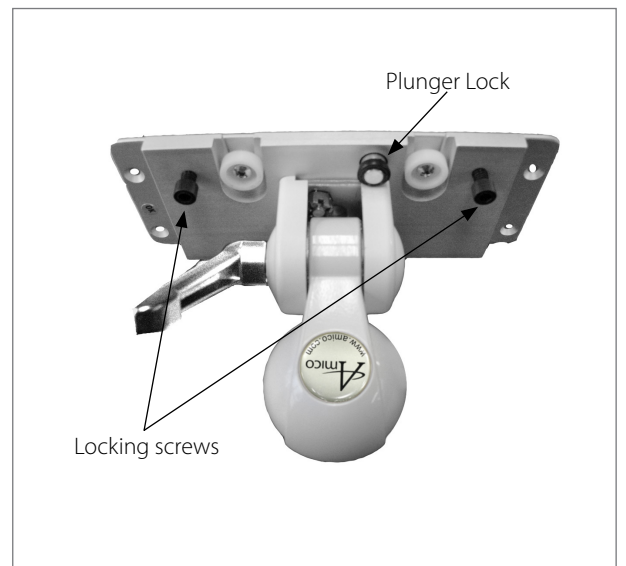
**⚠ WARNING:** ENSURE THE MOUNTING SHELF IS SECURE AND VERTICAL TO PREVENT THE MONITOR FROM SLIDING AND/OR FALLING.

**ℹ NOTE:** Quick installation system: On the back of the mounting plate there is a plunger that secures the plate to the mounting adapter. Simply slide and align the adapter to the shelf and the plunger will automatically engage and lock.

1. First, install the mounting adapter to the back of the monitor (Please refer to the adapter installation manual provided with the adapter).
2. Lift the monitor and slide the mounting adapter plate on to the mounting shelf. Slide the monitor down until the mounting hole on the mounting adapter aligns with the plunger (**Figure 1**). When the hole and the plunger are perfectly aligned the plunger will automatically lock. If the plunger does not lock automatically then lock the plunger manually by turning it. Tighten the locking screws by hand to the tightest possible position (**Figure 2**).



**Figure 1**



**Figure 2**

# Section 3: Installation to Monitor and Accessory

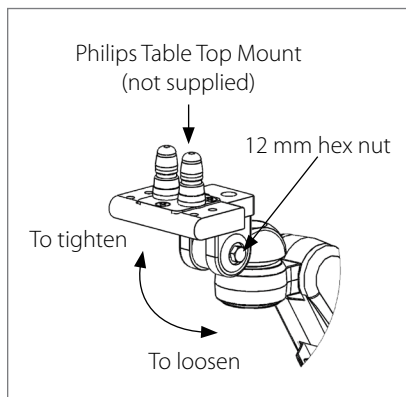
## Monitor Shelf: Philips IntelliVue

**⚠ WARNING:** ENSURE THE MOUNTING SHELF IS FIRMLY LOCKED AND HORIZONTAL TO PREVENT THE MONITOR FROM SLIDING AND FALLING.

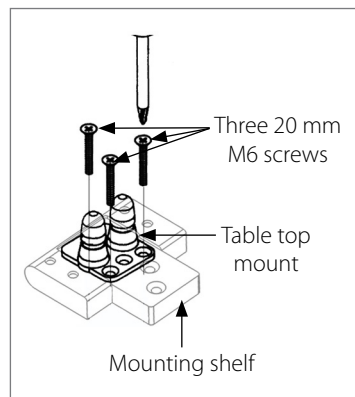
**ℹ NOTE:** Philips recommends a Maximum tilt of 15°.

**ℹ NOTE:** It is recommend to use M6 x 20 mm screws with thread locker or patched screws in order to eliminate possible dangers.

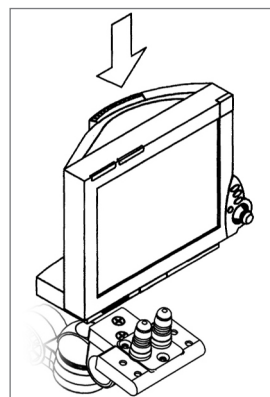
1. Attach the table top mount from Philips (not supplied by Amico) to the mounting shelf by securing the 3 screws through the shelf (**Figure 2**).
2. Place the monitor to the table top mount until it clicks (**Figure 3**).
3. Tilt the monitor to the desired angle and re-adjust the tension as needed with a 12 mm wrench (**Figure 4**).



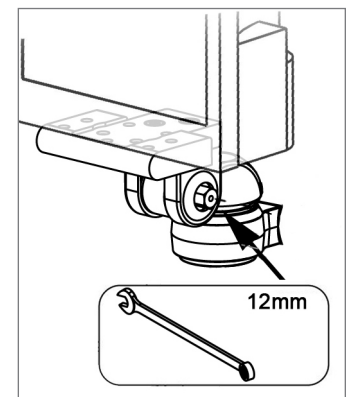
**Figure 1**



**Figure 2**



**Figure 3**



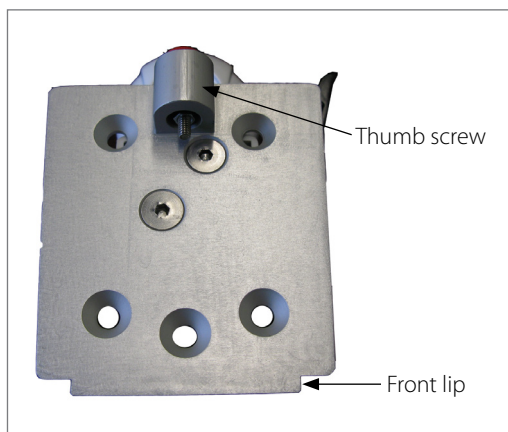
**Figure 4**

## Section 3: Installation to Monitor and Accessory

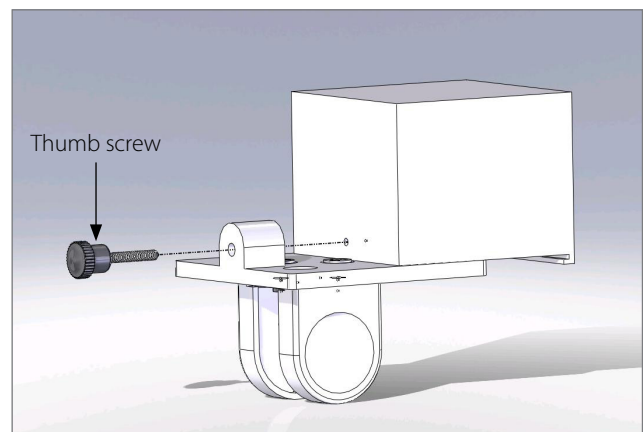
### Monitor Shelf: Welch Allyn

**⚠ WARNING:** ENSURE THE MOUNTING SHELF IS SECURE AND HORIZONTAL TO PREVENT THE MONITOR FROM SLIDING AND FALLING.

1. To attach the monitor to the Welch Allyn shelf, lift the monitor to match the front lip of the mounting plate. Slide the monitor laterally until the mounting hole on the monitor aligns with the thumb screw on the adapter (**Figure 1**).
2. Tighten the thumb screw to the tightest possible position (**Figure 2**).



**Figure 1**



**Figure 2**



# Section 3: Installation to Monitor and Accessory

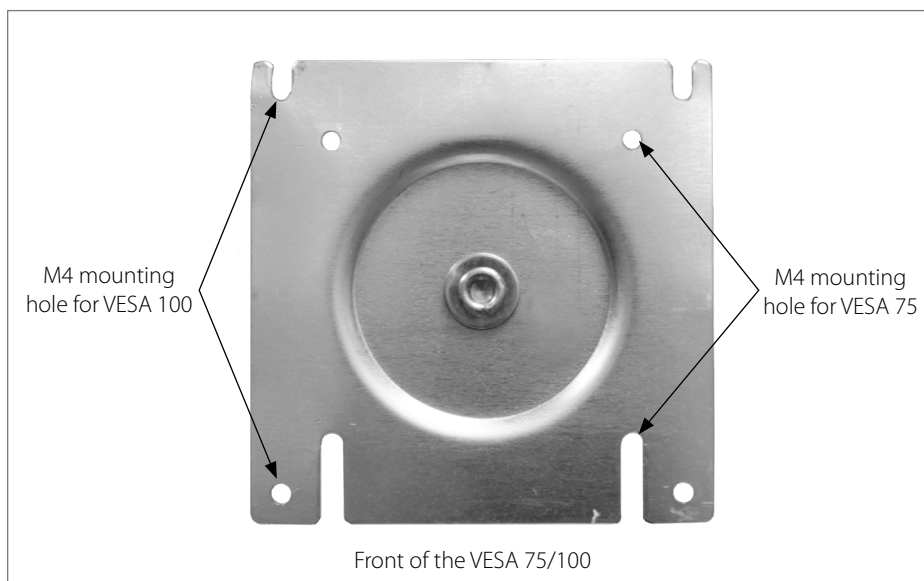
## Monitor Mounting: VESA 75/100

**⚠ WARNING:** ENSURE THAT THE AHM ARM IS IN THE HIGHEST VERTICAL POSITION AND LOCKED BEFORE MOUNTING OR REMOVING DEVICES FROM THE FALCON WORKSTATION.

**ℹ NOTE:** See page 29 for instructions on locking and unlocking the AHM Arm.

**ℹ NOTE:** 4x M4 screws are provided for mounting the display to the VESA Head, different screws may be needed if the provided screws are not the right size, standoffs may be needed depending on the hole pattern on the display.

1. Determine the display mounting configuration. VESA 75 (75 mm x 75 mm M4 thread) or VESA 100 (100 mm x 100 mm M4 threads).
2. VESA 100 configuration: Partially thread two screws into the top 2 holes in the back of the display. The display can then be hung up on the VESA Head through the two slots at the top. Insert 2 more screws through the VESA 100 mounting holes at the bottom and tighten all screws (**Figure 1**).
3. VESA 75 configuration: Rotate the VESA Head so the 2 slots for the VESA 75 configuration are located at the top. Partially thread two screws into the top 2 holes in the back of the display. The display can then be hung up on the VESA Head through the two slots at the top. Insert 2 more screws through the VESA 100 mounting holes at the bottom and tighten all screws.
4. When removing the display, the display arm and the display should be placed at the highest position (**Figure 2**). Remove the 2 bottom screws from the VESA plate, loosen the top 2 screws, and lift the display off the VESA plate.



**Figure 1**



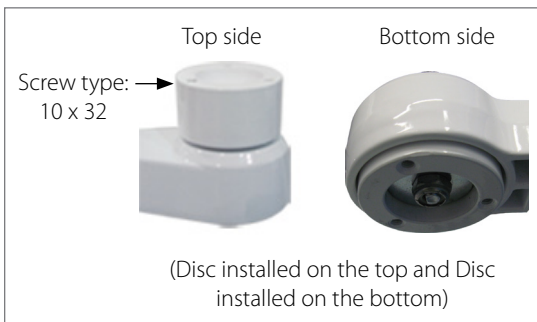
**Figure 2**

# Section 3: Installation to Monitor and Accessory

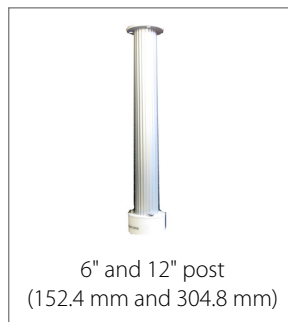
## Accessory Shelf: Disc

**i NOTE:** It is possible to attach accessories to the top or bottom side of the AHM Arm using this same mount (Figure 1).

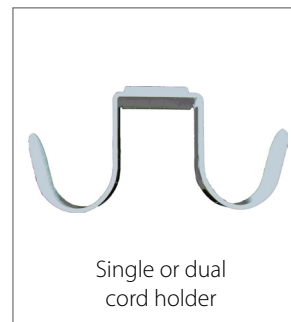
**i NOTE:** Amico Accessories Inc. carries a variety of different accessories that attach to the head of the AHM Arm.



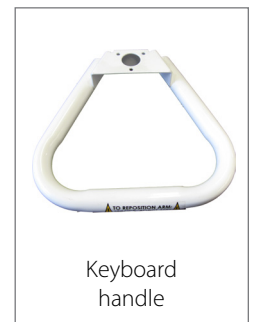
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**



**Figure 7**



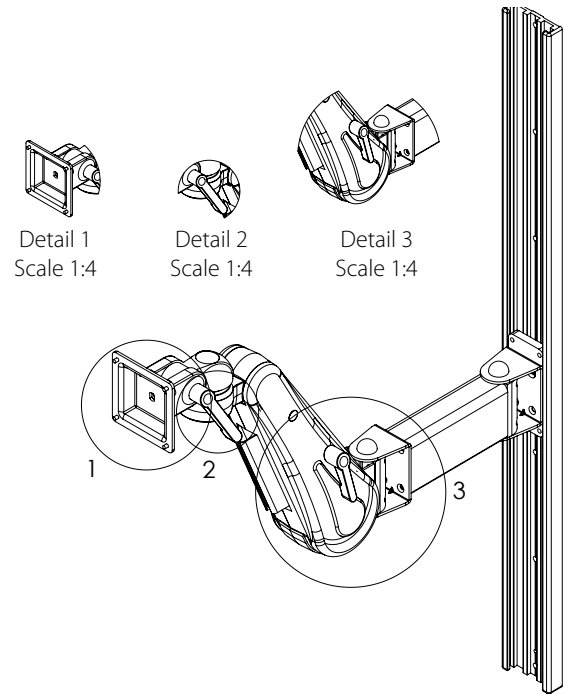
**Figure 8**

# Section 4: Adjustments

## Rotation (AHM Side to Side)

**⚠ WARNING:** IN AHM WITH EXTENSIONS, BOTH ARMS HAVE A 180 DEGREE ROTATION. ENSURE PROPER CLEARANCE AROUND THE ARM(S) TO AVOID COLLISION.

**ℹ NOTE:** If the arm becomes difficult to rotate, or too loose, please contact Amico Accessories Inc.: **1-877-264-2697.**



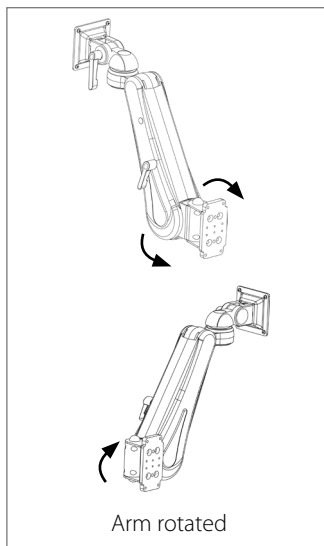
## Rotation at the MON Adapter:

To rotate the arm, simply push on the side of the arm or the mounted monitor in the direction desired (**Figure 1**).

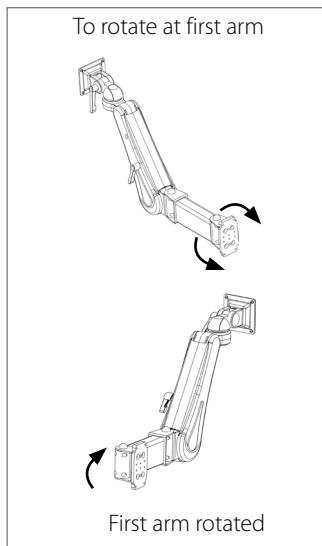
## Rotation at the End of Extension

**Applies to AHM IT Stations with Extension Arm AHM 55, 15, 35, 75 and AHM-IT 55, 15, 35, 75.**

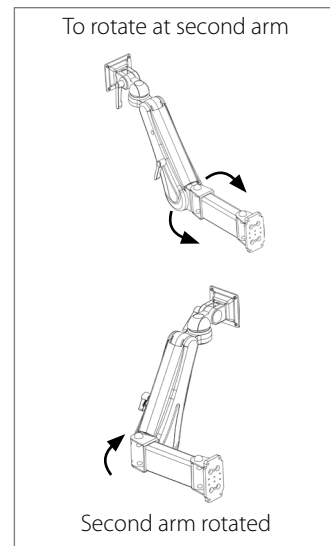
To rotate at the end point (near wall), push on the side of the extension arm, near the mid-way point (**Figure 2**). To rotate at the midway point, hold the extension arm with one hand and push on the side of the AHM arm with the mounted monitor in the direction desired (**Figure 3**).



**(Figure 1)**



**(Figure 2)**



**(Figure 3)**

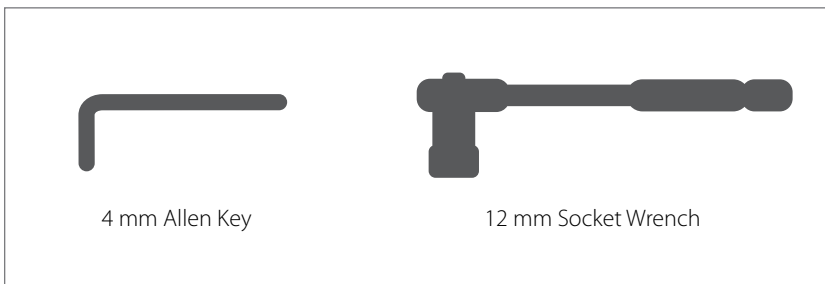
# Section 4: Adjustments

## Monitor Tilt

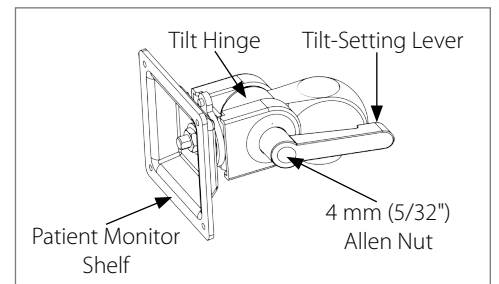
- ⚠ WARNING:** ALWAYS SUPPORT THE MONITOR IF ADJUSTING THE TILT ANGLE WHILE A MONITOR IS MOUNTED.
- ⚠ WARNING:** FOR HEAVIER MONITORS, IT IS STRONGLY RECOMMENDED TO CHECK WHETHER THE TILT-SETTING LEVER IS TIGHTENED TO THE TIGHTEST POSITION WHILE THE MONITOR IS ATTACHED. IF THE ADJUSTMENT LEVER CANNOT BE TIGHTENED ENOUGH TO SECURE THE MONITOR IN PLACE, PROCEED TO STEP 3.
- ⚠ WARNING:** DO NOT ADJUST TILT-ANGLE WITHOUT FIRST LOOSENING THE TILT-SETTING LEVER.
- ℹ NOTE:** Tilt-angle setting is ONLY ACHIEVED BY TIGHTENING THE TILT-SETTING LEVER. DO NOT tighten nuts adjacent to the Tilt-setting Lever.



## Tools



## Reference

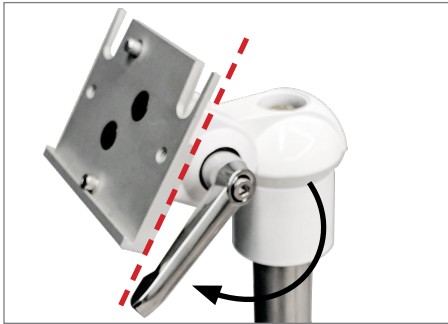


1. To TIGHTEN the Tilt-Hinge (in order to set the desired tilt angle), TURN the Tilt-Setting Lever CLOCKWISE. (Turning the Lever COUNTER-CLOCKWISE will ENABLE tilt movement).



## Section 4: Adjustments

2. A sufficient level of tightness may not be achieved by the time the Tilt-setting Lever touches the back of the Patient Monitor Shelf (**Figure 1**). If this occurs, PULL the lever AWAY from the MON Head to disengage the lever (**Figure 2**). TURN the lever COUNTER-CLOCKWISE (**Figure 3 [1]**) to create space for the lever to further tighten. PUSH the lever TOWARDS the MON Head (**Figure 3 [2]**) to re-engage the lever. Repeat Step 1 to further tighten the Tilt Hinge.



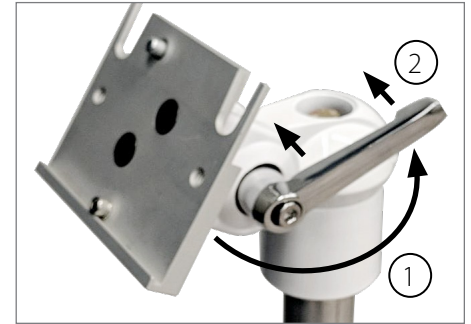
**Figure 1**

Lever blocked by Patient Monitor Shelf



**Figure 2**

Pull lever AWAY from the MON Head



**Figure 3**

Rotate Lever COUNTER-CLOCKWISE (1) and PUSH (2)

3. If a sufficient level of tightness cannot be achieved, use a 4 mm Allen key to loosen the screw that keeps the Tilt-setting Lever in place (**Figure 4**). Remove the screw and spring (**Figure 5**). Remove the lever to reveal the 12 mm hex-nut (**Figure 6**).

**i NOTE:** In some instances (especially with heavy monitors), a sufficient level of tightness cannot be achieved. If monitor tilt-angle will not set, proceed to Step 3.



**Figure 4**



**Figure 5**



**Figure 6**

4. Turn the 12 mm hex-nut CLOCKWISE using the 12 mm socket wrench (**Figure 7**) to tighten.



**Figure 7**

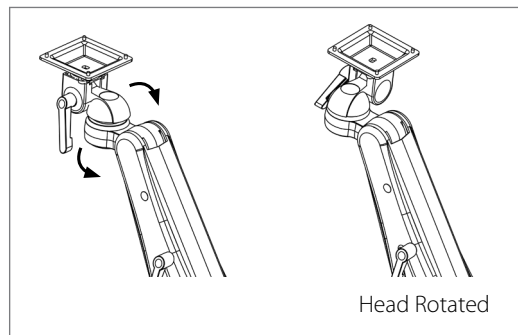
5. Test to confirm the tilt-angle is secure.

# Section 4: Adjustments

## Rotation (Monitor Head Side to Side)

**⚠ WARNING:** DO NOT ADJUST THE ROTATION TENSION BOLT. IT WILL DISASSEMBLE FROM THE ARM. IF THERE ARE ANY PROBLEMS ASSOCIATED WITH THE MONITOR HEAD PLEASE REFER TO THE TROUBLESHOOTING SECTION ON PAGES 28-30, OR CONTACT AMICO ACCESSORIES INC. AT **1-877-264-2697**.

1. The mounted device rotates at the front of the arm. To rotate the device, push the corners of the device or the head while holding the AHM in place (**Figure 1**).

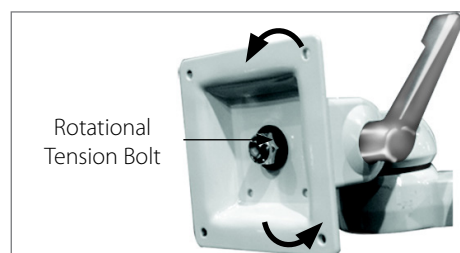


**(Figure 1)**

## Portrait and Landscape Adjustment

**i NOTE:** It is recommended to make the adjustments with the monitor mounted.

1. To adjust the orientation, turn the monitor. The monitor can turn up to 135° in either left or right. The stopper is positioned so that it cannot rotate further than 135° (**Figure 2**).
2. To adjust the tension of the portrait and landscape feature for VESA 75 plate, The monitor must be removed from the Monitor Head. Remove the four VESA 75 screws from the monitor. Turn the Rotational Tension Bolt (**Figure 2**) in the center of the VESA adapter clockwise to tighten the tension. Turn counter-clockwise to loosen the tension. After tension is adjusted, remount the monitor (refer to page 13).
3. To adjust the tension of the portrait and landscape feature for VESA 100 plate, The monitor must be removed from the Monitor Head. Remove the four inner screws that secure the VESA 100 plate to the VESA 75 plate. There is no need to remove the VESA 100 plate from the monitor. Turn the Rotational Tension Bolt (**Figure 2**) in the center of the VESA adapter clockwise to tighten the tension. Turn counter-clockwise to loosen the tension. After tension is adjusted, remount the monitor (refer to page 13).



**Figure 2**

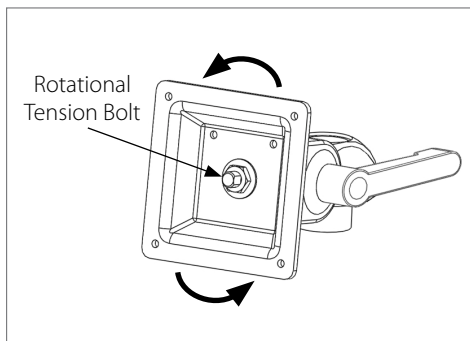
# Section 4: Adjustments

## Portrait and Landscape Limiter

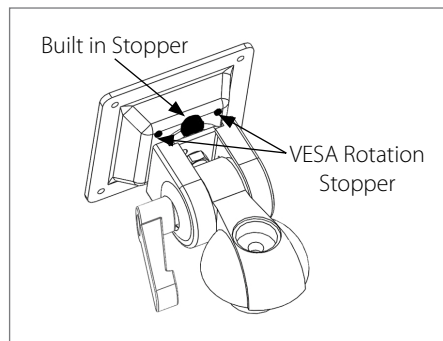
**i NOTE:** Lock-out feature only available for monitors using VESA adapters.

**i NOTE:** Lock-out is useful for shorter cables. It prohibits the rotation of the monitor to +/- 15°.

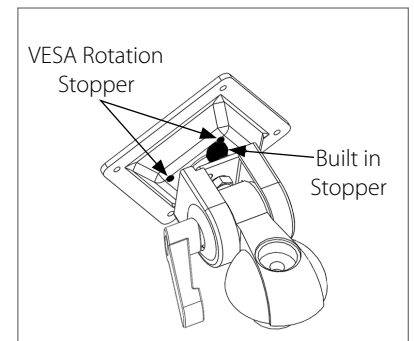
1. Remove the monitor by removing the four VESA 75 screws (or VESA 100 users, the inner screws that holds the VESA 100 adapter to the VESA 75 adapter) Loosen the rotation tension bolt approximately 1 full turn at the center of the VESA adapter and rotate the VESA head to locate the VESA rotation stoppers on the two sides of the built in stopper (**Figure 1**).
2. Re-mount the monitor (refer to page 13). Grab the monitor itself and turn to desired angle. The head will stop at the location of the stopper and prohibit further movement (**Figures 2 and 3**).



**Figure 1**



**Figure 2**



**Figure 3**

## Height Locking Lever Adjustments

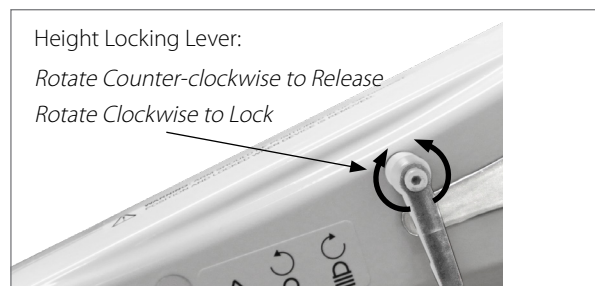
**! WARNING:** THE HEIGHT LOCKING LEVER MUST BE INSTALLED PROPERLY BEFORE MOUNTING THE AHM ARM TO THE RAIL OR MOUNTING THE DISPLAY TO THE AHM ARM.

**i NOTE:** The height locking lever is designed to stop all vertical movement of the AHM arm when it is in use. Loosen the lever to adjust the AHM arm vertically, and tighten when finished to lock the AHM arm.

1. Insert the height locking lever into the mounting hole on the side of the arm. Turn the lever clockwise to lock vertical movement, or turn the lever counter-clockwise to release the vertical lock. Check to make sure the arm is locked in its highest position before mounting the arm into the channel (**Figures 1 and 2**).



**Figure 1**



**Figure 2**

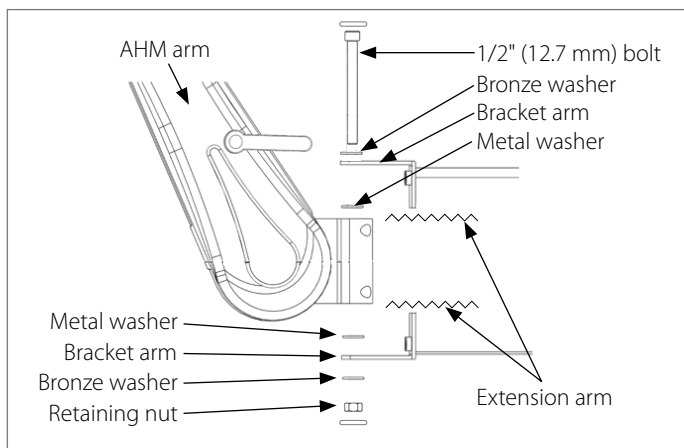


## Section 4: Adjustments

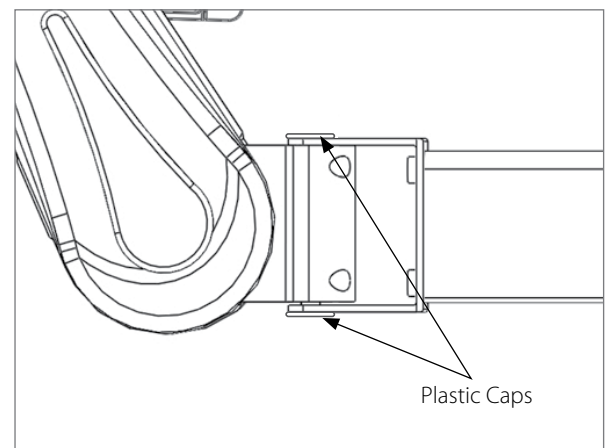
### Attaching the Extension Arm

**i NOTE:** Extension arms are normally shipped assembled with the AHM arms. If the extension arm is not assembled, please follow the instructions below to attach the extension arm before mounting.

1. Assemble the AHM arm extension in the following order from the top down: 1/2" (12.7 mm) bolt, bronze washer, bracket arm, metal washer in upper washer groove, AHM arm between the bracket, metal washer in lower washer groove, bracket arm, bronze washer, retaining nut (**Figure 1**).
2. Cover the exposed nut and bolt with plastic caps (**Figure 2**).



**Figure 1**



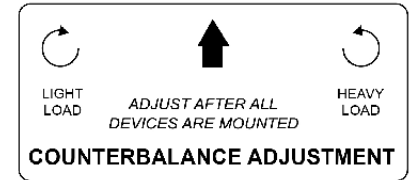
**Figure 2**



# Section 4: Adjustments

## Counterbalance

**NOTES:** DO NOT OVER ROTATE THE COUNTER BALANCE BOLT. ONCE YOU FEEL A RESISTANCE, STOP COUNTER BALANCING. FORCING THE BOLT WILL DAMAGE THE INTERNALS OF THE AHM ARM AND VOID THE WARRANTY.

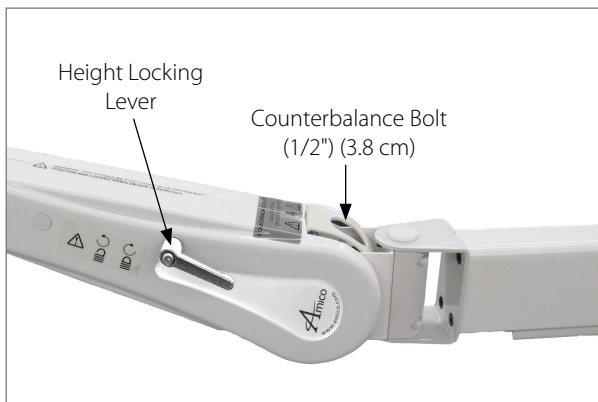


**WARNING: KICK BACK MOTION:** WHEN THE ARM IS LOCKED AND NOT IN THE HIGHEST POSITION, IT IS CAPABLE OF RAPIDLY LIFTING TO THE HIGHEST POSITION ONCE THE LOCKING LEVER IS RELEASED. THIS CAN CAUSE INJURY TO PERSON(S) IF THEY DON'T SUPPORT THE ARM WITH THEIR HANDS ONCE THE LEVER IS RELEASED (**FIGURE 1 ON THE NEXT PAGE**).

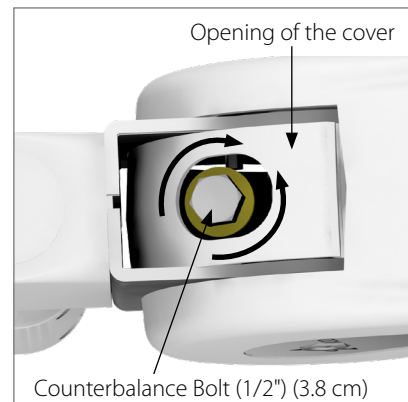


**NOTE:** Height locking lever restricts the motion of the AHM arm when it is in locked position. Therefore, before counter balancing with the monitor already installed, please ensure the height locking lever is released and the arm is mobile.

1. Once the monitor is securely installed, release the height lock and position the AHM arm to align the opening in the cover with the counter balance bolt. Tighten the locking lever again to lock the AHM arm (**Figure 1**).
2. To adjust for heavier loads, tighten the counter balance bolt clockwise. To adjust for lighter loads, tighten the counter balance bolt counter-clockwise (**Figure 1**).
3. Release the locking lever. If the arm has been correctly balanced then the arm will not drop or lift and it will remain in the same position. Ensure the arm is balanced from the lowest to the highest position by checking in various positions and tighten the height locking lever with the arm at the desired position.
4. If the arm is not balanced correctly, please go back to step 2 and repeat. To avoid the kick back motion, the counter balance can be set to a "fail safe mode" (see next page).



**Figure 1**




**Figure 2**


# Section 4: Adjustments

## Counterbalance: Fail Safe Mode

(Recommended for Applications Where No Possibility of Kick Back is Desired)

 **WARNING:** PLEASE WATCH OUT FOR KICK BACK MOTION OF THE AHM ARM WHEN RELEASING THE LOCKING LEVER.



 **NOTE:** Fail safe mode is set by counter balancing the arm without the weight of the monitor. In fail safe mode it will be harder to adjust the AHM arm vertically with the load.

1. Slide out the monitor and the adapter plate from the AHM arm.
2. Release the locking lever and position the AHM arm to align the opening in the cover to the counter balance bolt. Tighten the locking lever again to lock the AHM arm.
3. To adjust for no load, tighten the counter balance bolt counter-clockwise.
4. Release the locking lever. If the arm has been correctly balanced, the arm will remain in the same position. Ensure the arm is balanced from the lowest to the highest position and tighten the height locking lever. If the arm is not balanced correctly, please go back to step 2 and repeat.
5. When the balancing is complete, place the monitor and the adapter back on the AHM arm.
6. The AHM arm can now be adjusted to the desired height and locked in place using the height locking lever.



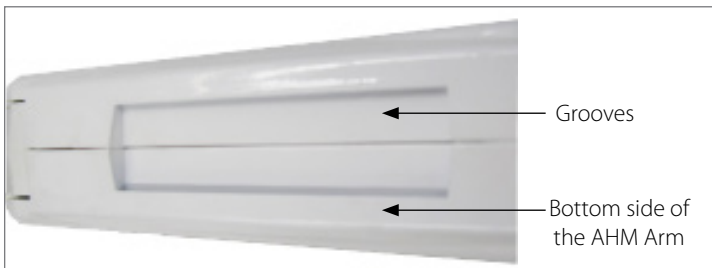
**Figure 1**

# Section 4: Adjustments

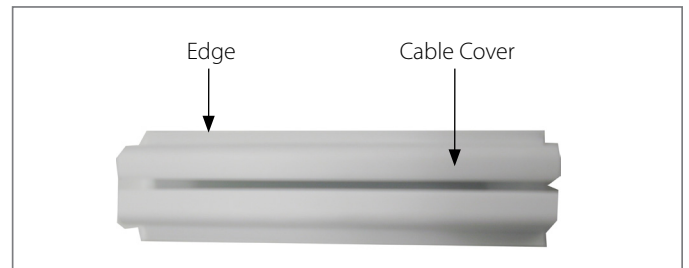
## Cable Management: AHM Arm

- i NOTE:** A cable guide is provided to facilitate routing of cables along the bottom of the arm.
- i NOTE:** Longer cable guides are provided for arms with extensions. Guides also snap into grooves on the bottom of extension arms.

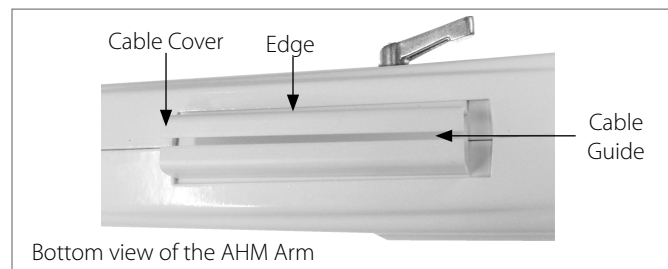
1. Squeeze the cable guide until its edges snap into the bottom surface grooves of the arm. If you encounter difficulty, you may use a flathead screwdriver to force the cable guide into the groove. Leave some extra cable loose at the front and rear of the arm to prevent cable binding, connector damage, or cable guide damage (**Figures 1-3**).



**Figure 1**



**Figure 2**



**Figure 3**

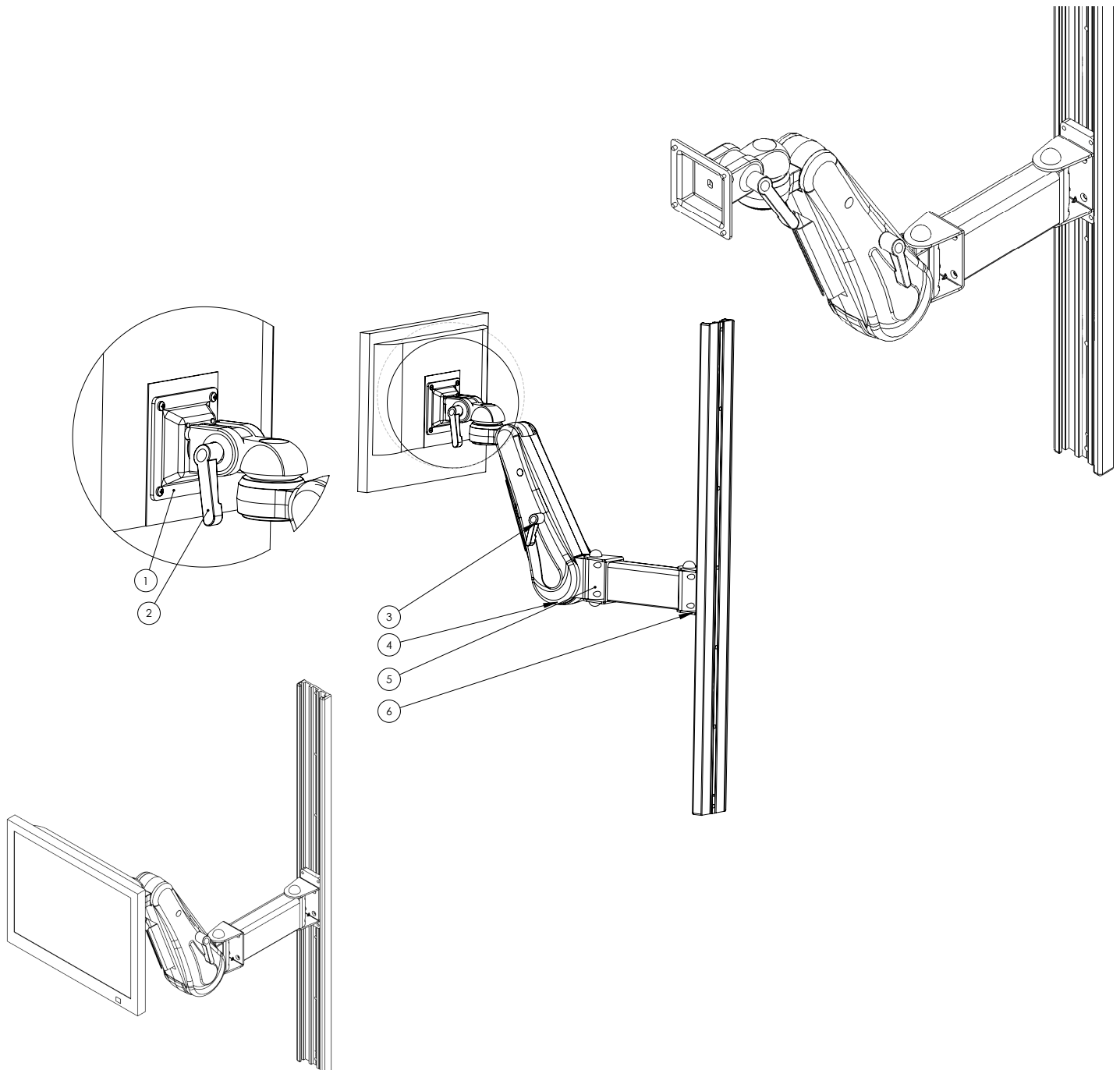
# Section 5: Troubleshooting, Maintenance and Product Classification

## Preventive Maintenance

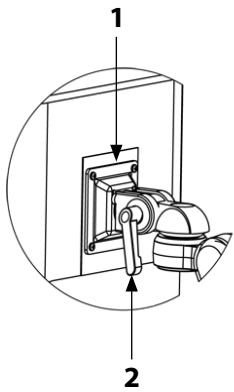
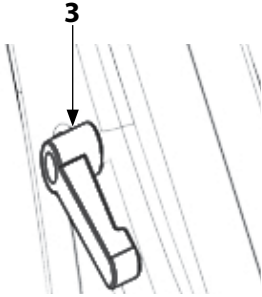
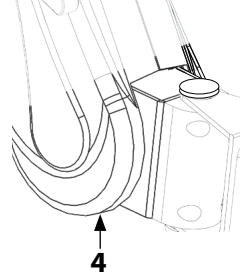
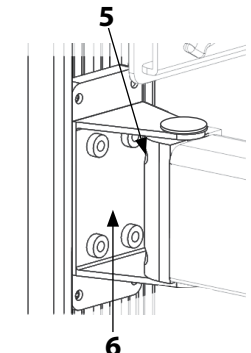
**⚠ WARNING:** AHM ARM REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO PERFORM OPTIMAL AND TO ACHIEVE ITS MAXIMUM OPERATION LIFE.

**⚠ WARNING:** THE FOLLOWING SCHEDULE IS A RECOMMENDATION AND NOT A STRICT SCHEDULE. MAINTENANCE SCHEDULES SHOULD BE SHORTENED FOR AHM ARMS THAT SEE HEAVY USE.

**Please be sure to thoroughly check the areas illustrated below for AHM Arm:**



# Section 5: Troubleshooting, Maintenance and Product Classification

Area	Maintenance
	<p><b>Area 1:</b></p> <p>A) Check if the adapter plate and the monitor are securely attached.</p> <ul style="list-style-type: none"> <li>• Mounting shelves and drop on shelf (AHM-XX [0, 2, 6, 8, and 9]) - Ensure the screws are tight. Ensure the plunger is securely holding the adapter.</li> <li>• VESA 75/100 (AHM-LCD) - Ensure the four screws on the mounting plate are fastened to the tightest possible position.</li> <li>• Philips (AHM-XX3) - Ensure studs are securely holding the monitor.</li> <li>• Welch Allyn (AHM-XXW) - Ensure the thumb screw is fastened to the tightest possible position.</li> </ul> <p>B) Visually inspect for any signs of grinding and gapping.</p> <p><b>Area 2:</b></p> <p>A) Ensure the adjustment lever is tight and secure. Also check if the plastic cover is attached firmly. Tightening will be required after prolonged use.</p> <p>B) Inspect the bolt, washers and contacting surfaces for grinding and wearing. Ensure the bolt is tightened to the tightest position.</p> <p>C) Check for any signs of gapping between the bushing and the head. Also ensure the head of the AHM is horizontal and is secure.</p> <p>D) Inspect the bolt, washers and contacting surfaces for grinding and wearing.</p>
	<p><b>Area 3:</b></p> <p>Ensure the adjustment lever is tight and secure. Also inspect visually for any signs of impact or wear on the outside surface of the AHM arm.</p>
	<p><b>Area 4:</b></p> <p>Visually inspect for any grinding or gapping of the contacting surfaces. Check for any fluid leakage from the gas spring.</p>
	<p><b>Area 5:</b></p> <p>Ensure all the screws are fastened to the tightest possible position. Inspect for any signs of grinding, bending and gapping and ensure the AHM arm is tightly attached to the swivel block.</p> <p><b>Area 6:</b></p> <p>Inspect visually for any gapping between the bracket and the adapter plate. Ensure the bracket is tightly attached to the adapter plate.</p> <p><b>MRS and Hill-Rom</b> - Ensure the screws are fastened to the tightest possible position.</p> <p><b>VRS and Dovetail</b> - Ensure the screw knobs are fastened to the tightest possible position and nuts on the opposite side are secure.</p>

# Section 5: Troubleshooting, Maintenance and Product Classification


## Troubleshooting


Symptom	Possible Cause	Solution
<ul style="list-style-type: none"> <li>Too easy or too difficult to tilt the monitor up and down.</li> </ul>	<ul style="list-style-type: none"> <li>Excessively loosened or tightened hardware.</li> <li>Weight of the monitor is not compatible with the arm.</li> </ul>	Please see "Monitor Tilt" section of the manual ( <b>see page 20</b> ) or use an arm with a compatible rating.
<ul style="list-style-type: none"> <li>Too easy or too difficult to twist the monitor left and right.</li> </ul>	<ul style="list-style-type: none"> <li>Excessively loosened or tightened hardware.</li> <li>Damaged hardware.</li> </ul>	Please see "Monitor mounting" section of the manual ( <b>see page 12-18 depending on applications</b> ).
<ul style="list-style-type: none"> <li>Too easy or too difficult to turn the monitor left and right.</li> </ul>	<ul style="list-style-type: none"> <li>Excessively loosened or tightened hardware.</li> <li>Damaged hardware.</li> </ul>	Please see "Rotation: monitor head" section of the manual ( <b>see page 22</b> ).
<ul style="list-style-type: none"> <li>AHM arm lifts up too rapidly without the monitor.</li> <li>AHM arm is too difficult to maneuver with the monitor.</li> <li>AHM arm falls down to the lowest position on its own with the monitor.</li> </ul>	<ul style="list-style-type: none"> <li>Counterbalance is not balanced properly.</li> <li>Height locking lever is not tighten properly.</li> </ul>	Please see "counterbalance" section of the manual ( <b>see page 25</b> ).
<ul style="list-style-type: none"> <li>The AHM arm is not secure and is rocking slightly.</li> </ul>	<ul style="list-style-type: none"> <li>Loosened/ damaged hardware.</li> </ul>	Perform a preventive maintenance or please contact Amico Accessories Inc.
<ul style="list-style-type: none"> <li>The head of the AHM is not horizontal and is not secure.</li> </ul>	<ul style="list-style-type: none"> <li>Damaged head.</li> </ul>	Head of the AHM needs to be replaced. Please contact Amico Accessories Inc.
<ul style="list-style-type: none"> <li>Oil is leaking from the gas spring.</li> </ul>	<ul style="list-style-type: none"> <li>Damaged gas spring.</li> </ul>	Gas spring needs to be replaced. Please contact Amico Accessories Inc.
<ul style="list-style-type: none"> <li>AHM arm moves up and down with difficulty.</li> </ul>	<ul style="list-style-type: none"> <li>Height lock is not released.</li> </ul>	Loosen the height locking lever.
<ul style="list-style-type: none"> <li>Popping sound when moving the AHM arm up and down.</li> </ul>	<ul style="list-style-type: none"> <li>Damaged gas bracket.</li> </ul>	Please contact Amico Accessories Inc.
<ul style="list-style-type: none"> <li>Length of the extension arm is at an angle.</li> <li>Extension arm is not secure or it is rocking slightly.</li> </ul>	<ul style="list-style-type: none"> <li>Damaged extension arm.</li> <li>Weight of the monitor exceeds the load rating.</li> </ul>	Please contact Amico Accessories Inc.
<ul style="list-style-type: none"> <li>Shelf plunger pin does not engage.</li> </ul>	<ul style="list-style-type: none"> <li>Plunger pin is locked.</li> </ul>	Twist the plunger.

If the above solutions do not solve your symptoms or you are in need of parts/hardware, please contact Amico Accessories, **1-877-264-2697**.

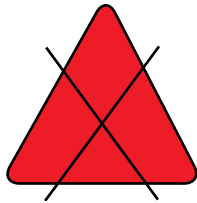
# Section 5: Troubleshooting, Maintenance and Product Classification

## Cleaning

 **WARNING:** THE CLEANING CHEMICALS AND METHODS BELOW ARE NOT MEANT FOR CONTROLLING ANY INFECTIONS. IT SHALL BE THE RESPONSIBILITY OF THE HOSPITAL OR THE HOSPITAL'S INFECTION CONTROL OFFICER TO SANITIZE THE EQUIPMENT.

 **WARNING:** PLEASE DO NOT SPRAY ANY CHEMICAL DIRECTLY ONTO THE ARM. APPLY ONTO A SOFT CLOTH AND WIPE CLEAN TO PREVENT CHEMICALS GETTING INTO THE INTERNAL COMPONENTS OF THE ARM.

The mounting assembly may be cleaned with most mild, non-abrasive solutions commonly used in the hospital environment (e.g. diluted bleach, ammonia, or alcohol solutions). The surface finish will be permanently damaged by strong chemicals and solvents such as acetone and trichloroethylene. Steel wool or other abrasive material should never be used. Damage caused by the use of unapproved substances or processes will not be warranted. It is recommended that you test any cleaning solution on a small area of the arm that is not visible to verify compatibility. Never submerge the arm and do not allow liquids to enter it. Wipe any cleaning agents off the arm immediately using a water-dampened cloth. Dry the arm thoroughly after cleaning.

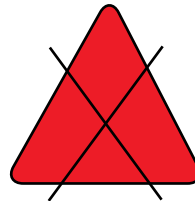


Acetone

**Figure 1**

### No Acetone

Acetone is a colorless, mobile, flammable liquid



Trichloroethylene

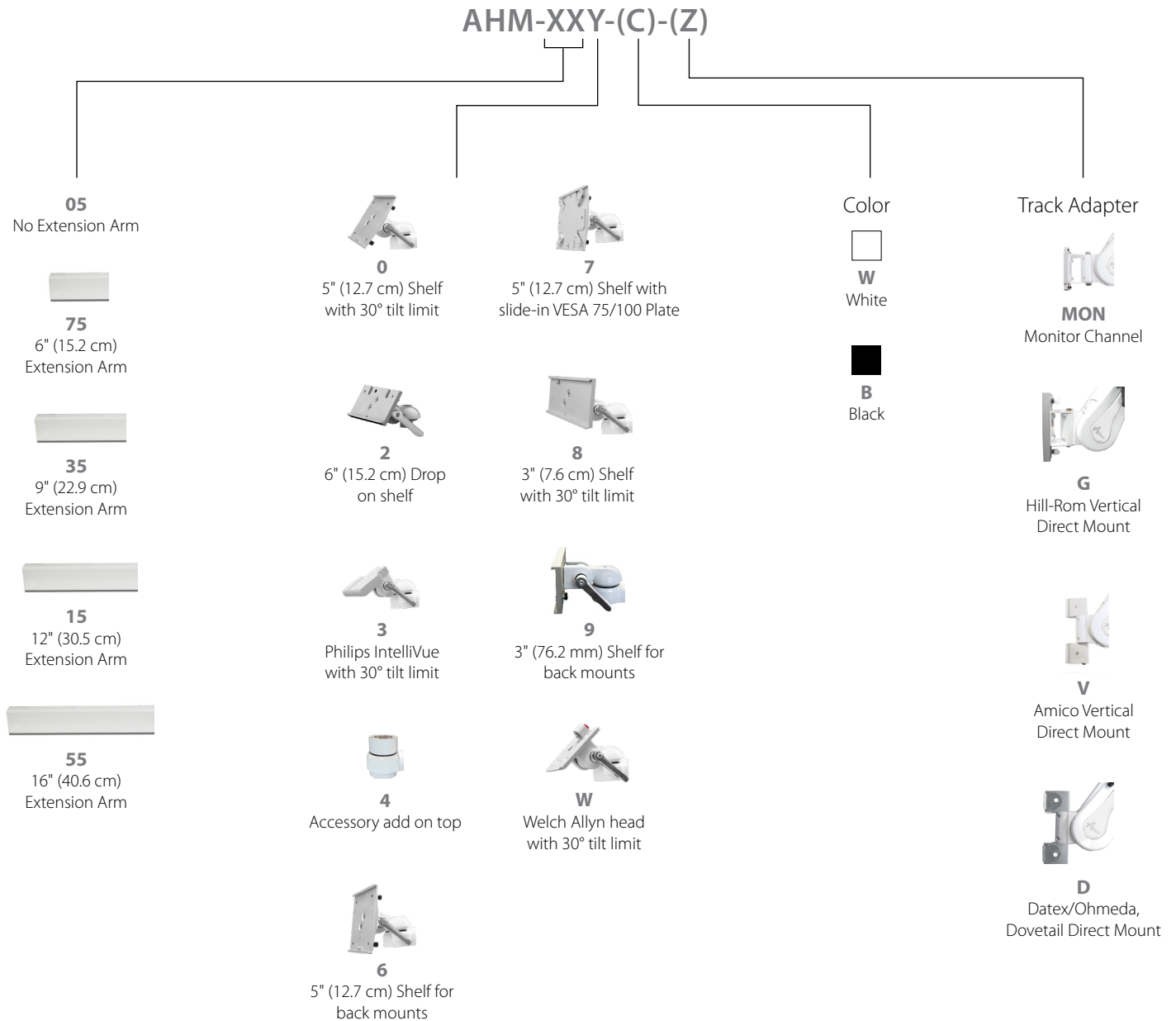
**Figure 2**

### No Trichloroethylene

Trichloroethylene is a chlorinated hydrocarbon commonly used as an industrial solvent

# Section 5: Troubleshooting, Maintenance and Product Classification

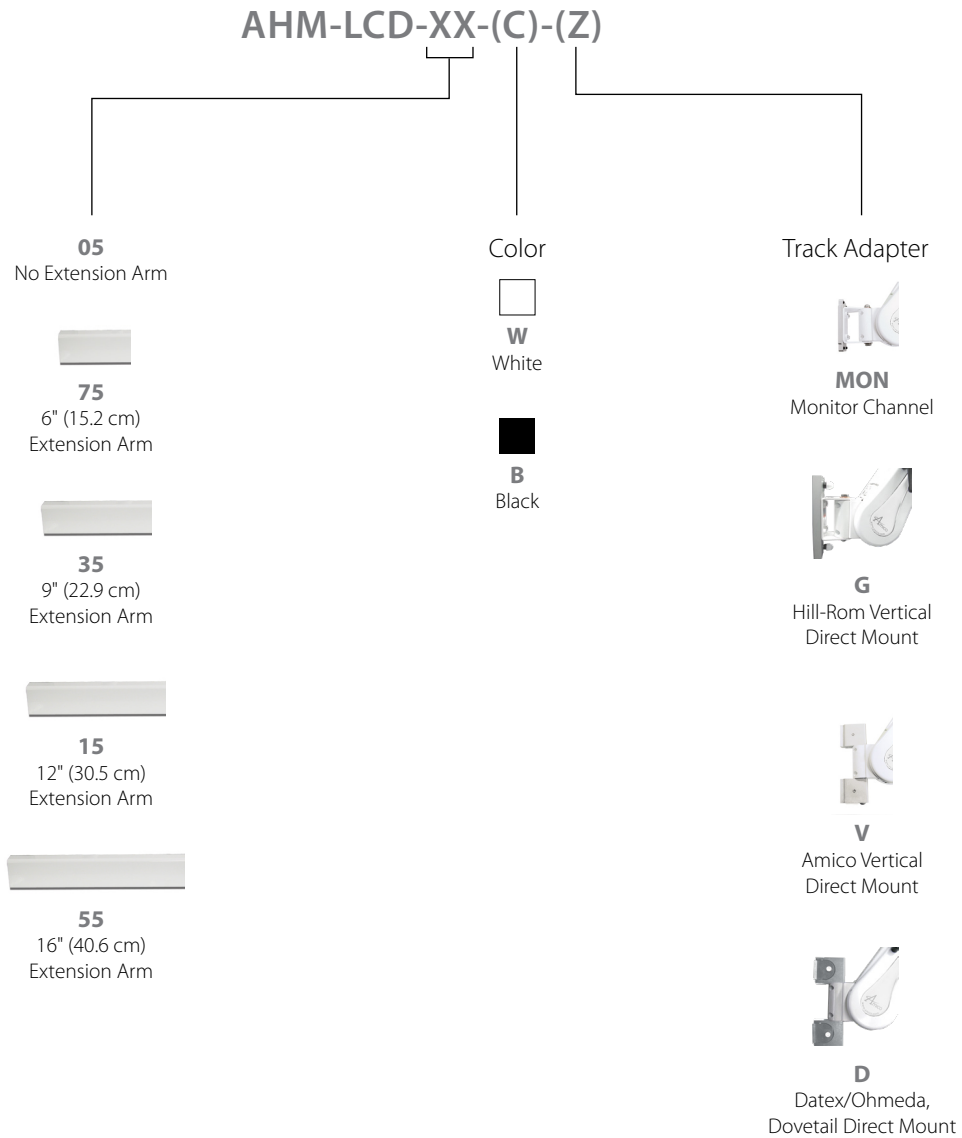
## Part Number Matrix





# Section 5: Troubleshooting, Maintenance and Product Classification

## Part Number Matrix



## Standard Plates Provided





## Warranty Policy - Equipment Mounting Solutions

Amico Accessories Inc. warrants all mounting accessories to be free from defects in material and workmanship for a period of twelve (12) months from the date of shipment. Within this period Amico Accessories Inc. will repair or replace any part which is proven to be defective.

Amico Accessories Inc. will warrant its materials to be free from defect for an additional period of four (4) years, (five [5] years from the date of shipment). Within this period, Amico Accessories Inc. will replace any part which is proven to be defective, at no charge. Shipping and Installation costs after the first twelve (12) months will be borne by the Customer.

This warranty is valid only when the product has been properly installed according to Amico Accessories Inc. specifications, used in a normal manner and serviced according to factory recommendations. It does not cover products that are not manufactured by Amico Accessories Inc. It does not cover failures due to damage which occurs in shipments or failures which result from accidents, misuse, abuse, neglect, mishandling, alteration, misapplication or damage that may be attributable to acts of God.

Amico Accessories Inc. shall not be liable for incidental or consequential damages resulting from use of equipment.

All claims for warranty must first be approved by Amico Accessories Inc. A valid Return Goods Authorization (RGA) number must be obtained from Amico Accessories Inc. prior to commencement of any service work. Warranty work, which has not been pre-authorized by Amico Accessories Inc., will not be reimbursed.

### **AMICO ACCESSORIES INC. DOES NOT HONOR VERBAL STATEMENTS CONCERNING THE WARRANTY.**

The distributor and/or dealer are not sanctioned to create verbal warranties about the product described in this agreement. Any statements will not be honored or be made part of the agreement of sale. This document is the final complete and exclusive terms of the agreement.

### **THIS WARRANTY IS INCLUSIVE AND REPLACES ALL OTHER WARRANTIES.**

Amico Accessories Inc. shall not, under any circumstances be liable for incidental or consequential damages including, but not limited to, profit, loss of sales or injuries to person(s) or property. Correction of noncompliance as noted above will result in completion of all liabilities of Amico Accessories Inc., whether based on agreement, neglect or changed materials, designs or specifications without notice.

All claims for warranty must first be approved by Amico Accessories Inc. Service Department: [accessories@amico.com](mailto:accessories@amico.com) or 1.877.264.2697. A valid Return Goods Authorization number must be obtained from Amico Accessories Inc. prior to commencement of any warranty claim.



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