

Installation Guide

Philips Intellivue MP90 Installation Kit for Datex Ohmeda Avance Anesthesia Machine

The purpose of this guide is to describe installation of mounting assemblies on the anesthesia machine.

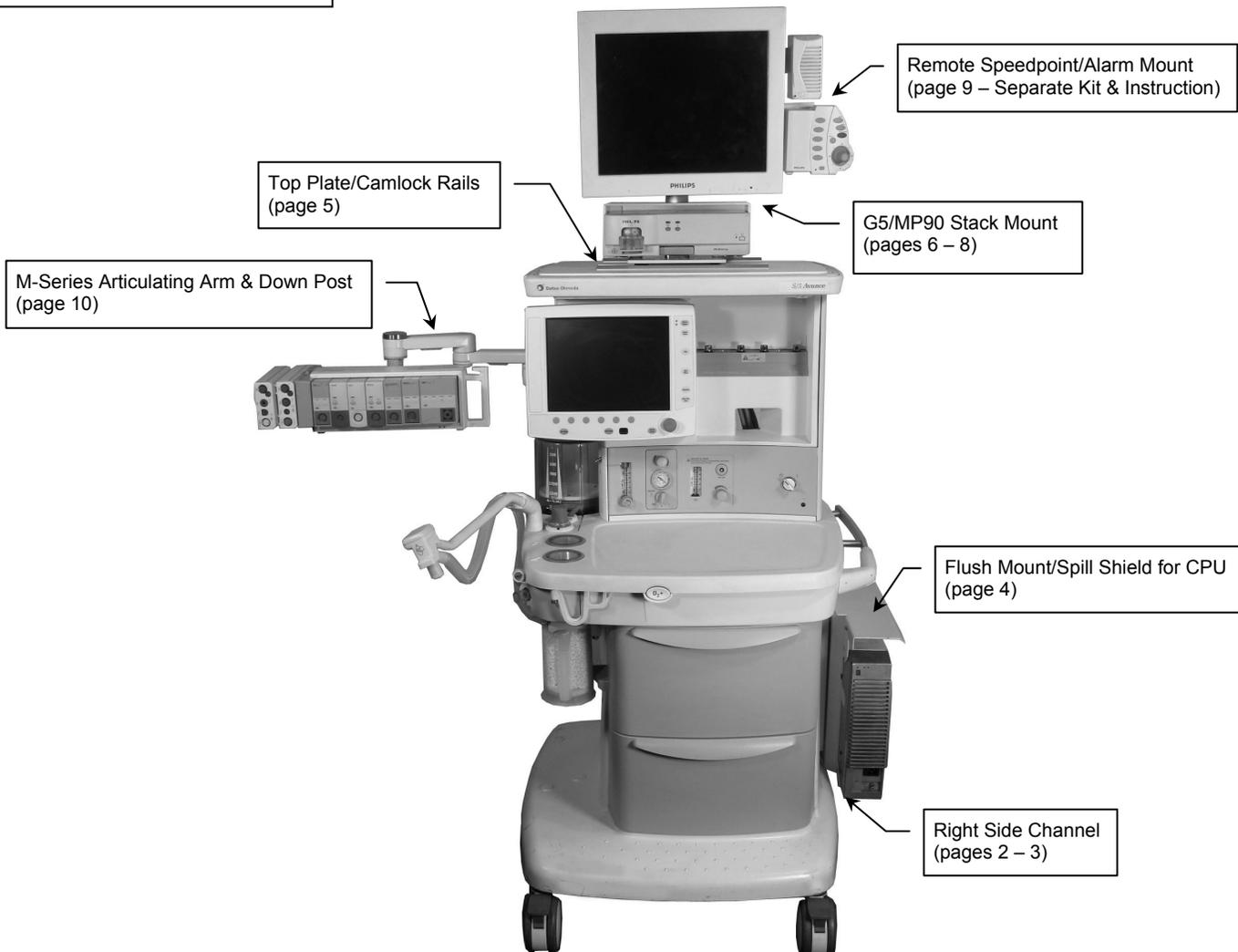


WARNING: USE OF MOUNTING HARDWARE AND MONITORING COMPONENTS OTHER THAN THOSE DESCRIBED IN THIS DOCUMENT MAY RESULT IN SERIOUS INJURY DUE TO TIPPING OF THE ANESTHESIA MACHINE.

WARNING: ALL DEVICES AND MOUNTING EQUIPMENT SHOULD BE POSITIONED INWARD, CLOSE TO THE ANESTHESIA MACHINE, DURING TRANSPORT.

Installer: When installation is completed, provide these instructions and all related documentation to the end user for future reference.

Mounts for MP90 Equipment

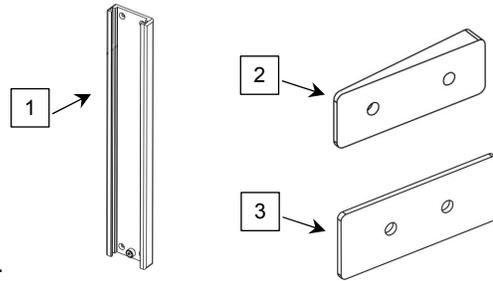


Installing Channel on Right Side of Anesthesia Machine

Parts Reference

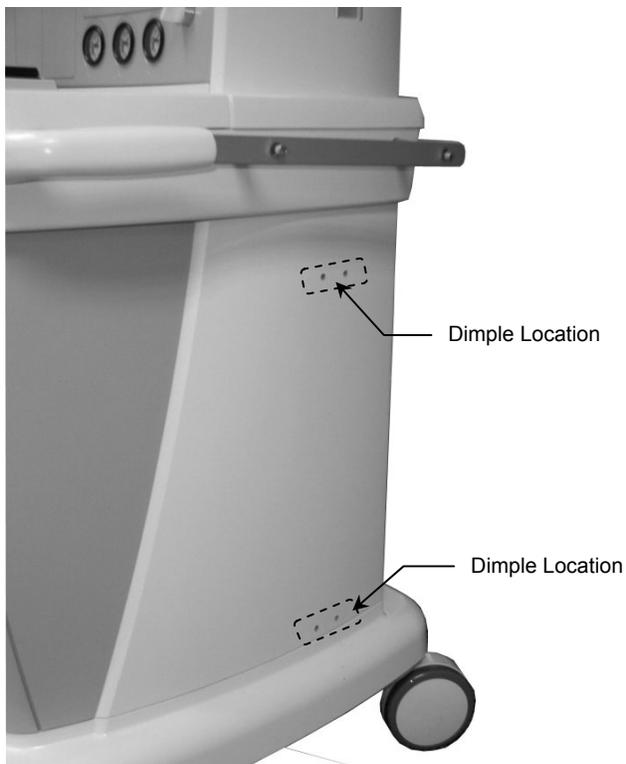
The following parts and hardware are included with this installation kit (hardware not shown):

Item #	Description	Qty
1	Channel	1
2	Channel Spacer	2
3	Nut Plate	2
4	#10-32 x 2-1/2" Flat Head Machine Screw (FHMS)	4

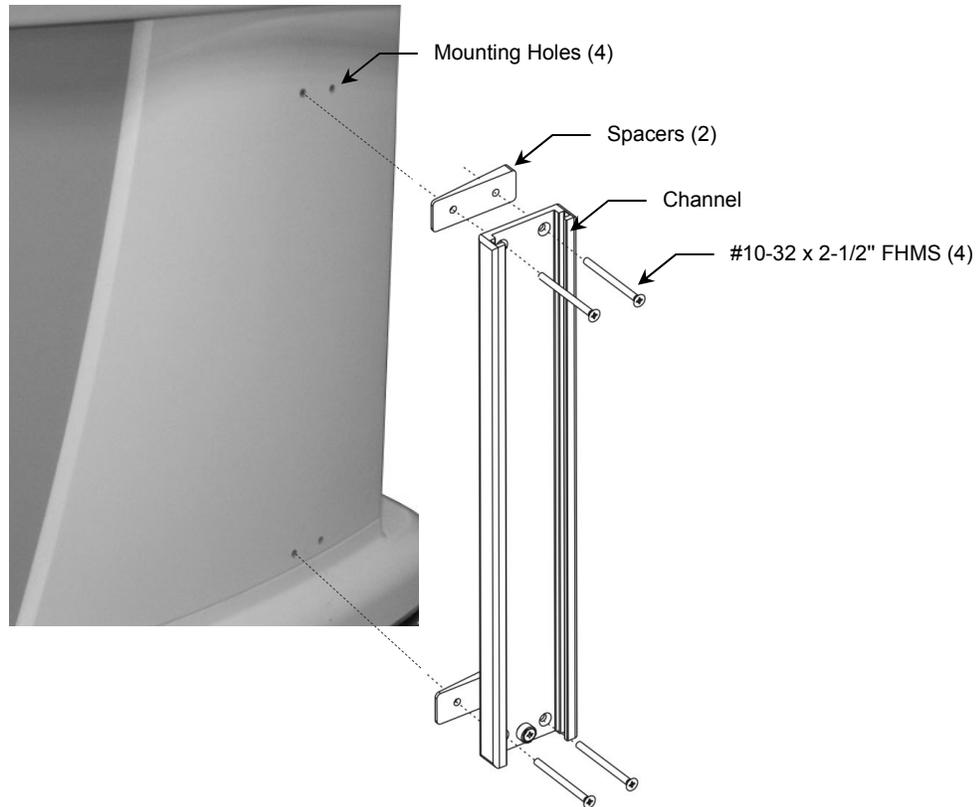


Tools Required: Drill and 1/4" [6.35mm] drill bit, Phillips screwdriver.

1. Remove the electrical inlet panel from the rear of the machine (refer to the anesthesia machine's *Technical Reference Manual* for this procedure).
2. Locate the four (4) dimples on the right side panel of the Aespire or Avance (below left). Drill holes precisely in the center of the four (4) dimples using a 1/4" [6.35mm] diameter drill bit. **CAUTION:** Do not allow the drill bit to penetrate more than 1" [25.4mm] into the side panel. Drilling too deeply may damage internal components of the machine. Remove all drilling chips.

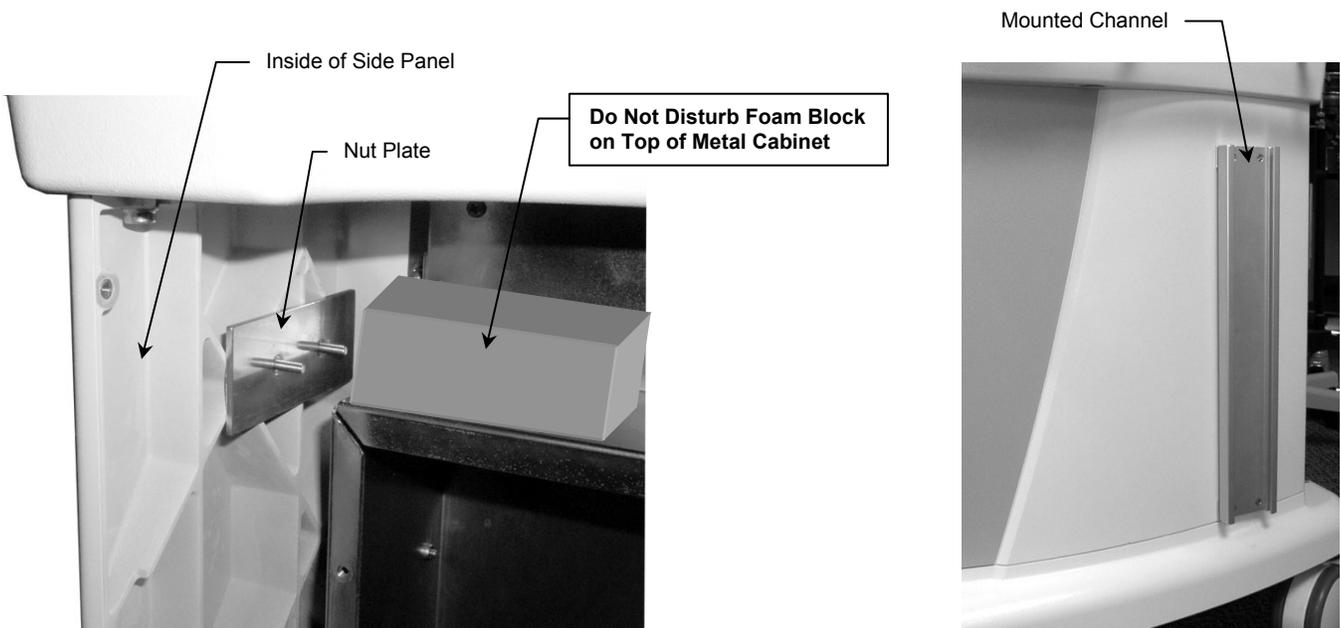


3. Assemble Channel and Spacers using four (4) #10-32 x 2-1/2" FHMS (as shown below) and insert the four (4) screws through the mounting holes in the side panel.



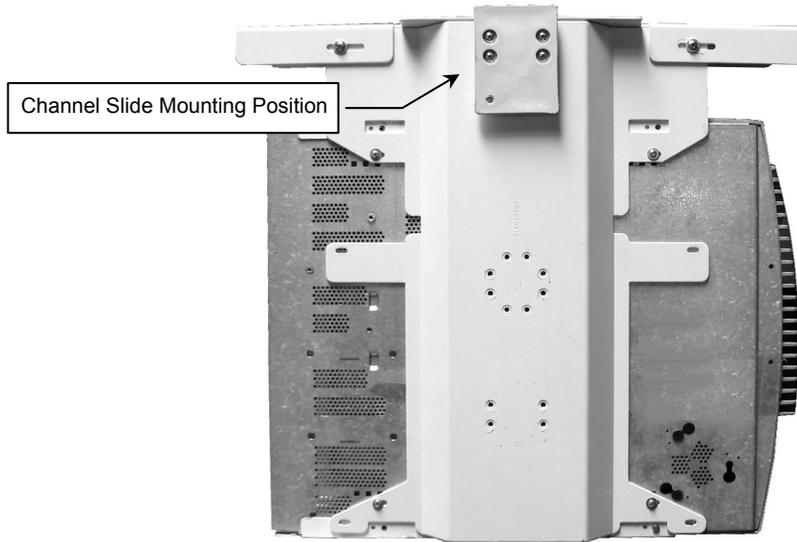
Caution! Do not disturb or remove the foam block on top of the metal cabinet inside the rear of the machine (see location below left). This foam block prevents oxygen enriched air from entering the electrical enclosure of the machine and must not be disturbed.

4. Carefully slide one (1) Nut Plate to the side of the foam block and align the Nut Plate with the top two (2) screws. Thread the screws into the Nut Plate and secure (below left). Secure the bottom screws to the remaining Nut Plate.

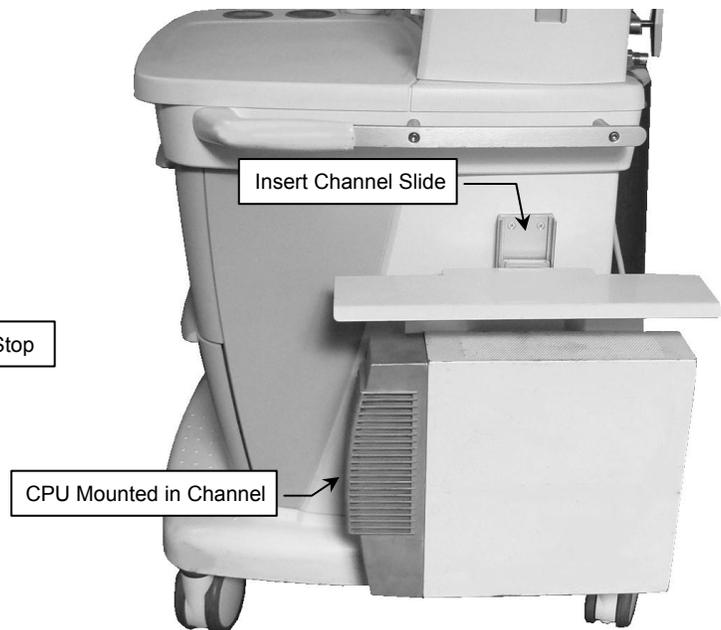


Mounting CPU in Right Side Channel

1. Attach Mounting Pan /Spill Shield to CPU in accordance with installation guide included with the CPU Mounting Kit.
Installation Note: Channel Slide must be rotated and fastened to Mounting Pan at upper mounting position as shown below.



2. Install Adjustable Stop 2.5" below opening in channel as shown below left.
3. Install Channel Slide in channel opening and guide to rest against Adjustable Stop as shown below right.



Attaching Top Plate/Camlock Rails to Top of Avance

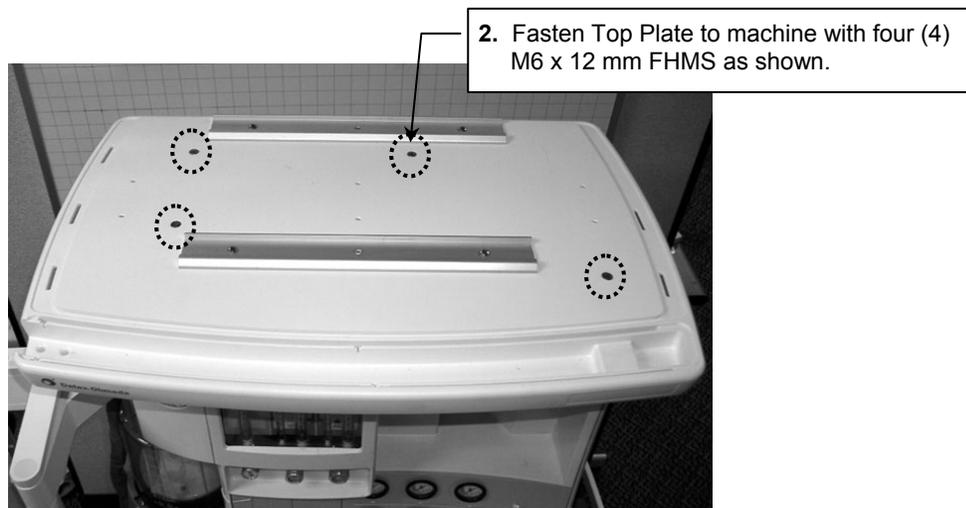
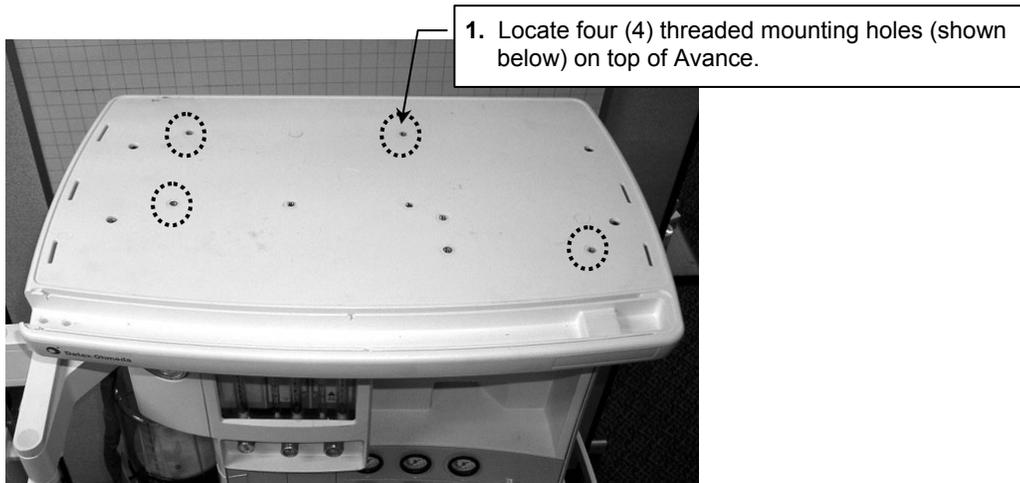
The following parts and hardware are included in this installation kit (hardware not shown):

Item #	Description	Qty
1	Top Plate/Camlock Rail Assembly	1
2	M6 x 12mm Flat Head Machine Screw (FHMS)	4



Tools required: Phillips screwdriver (not provided)

Installing Top Plate/Camlock Rail Assembly

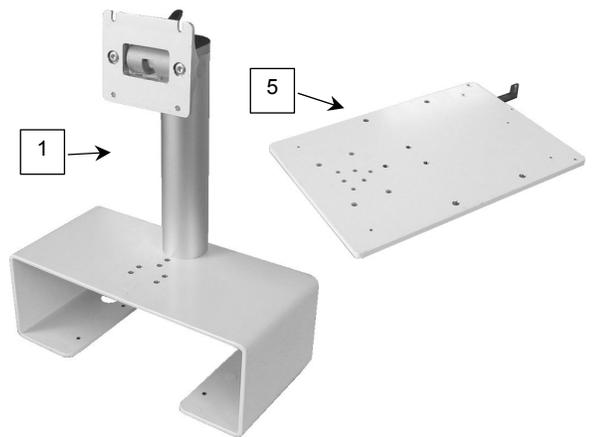


Mounting the G5/MP90 Stack Mount

Parts Reference

The following parts and hardware are included with this installation kit (hardware not shown):

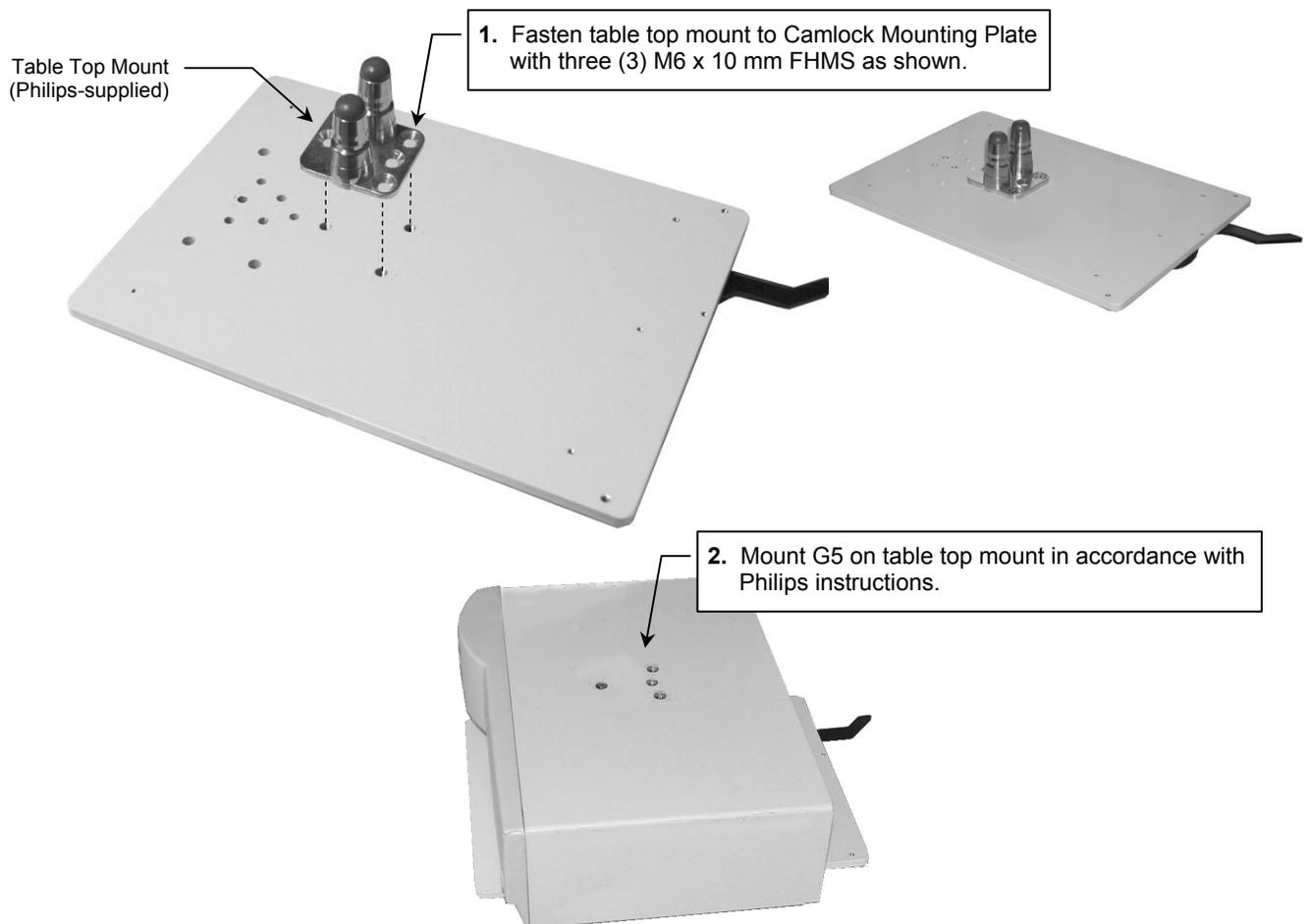
Item #	Description	Qty
1	Yoke, G5 Stack Mount with 9" Tilt/Swivel Post	1
2	#10-32 x 9/16" Pan Head Machine Screw (PHMS)	4
3	#10 Flat Washer	4
4	Remote Speedpoint/Display Mounting Kit (not shown)	1
5	Camlock Mounting Plate	1
6	M6 x 10mm Flat Head Machine Screw (FHMS)	3
7	M4 x 20mm PHMS	2
8	#6-32 x 3/8" PHMS	1
9	5/32" Hex Wrench	1

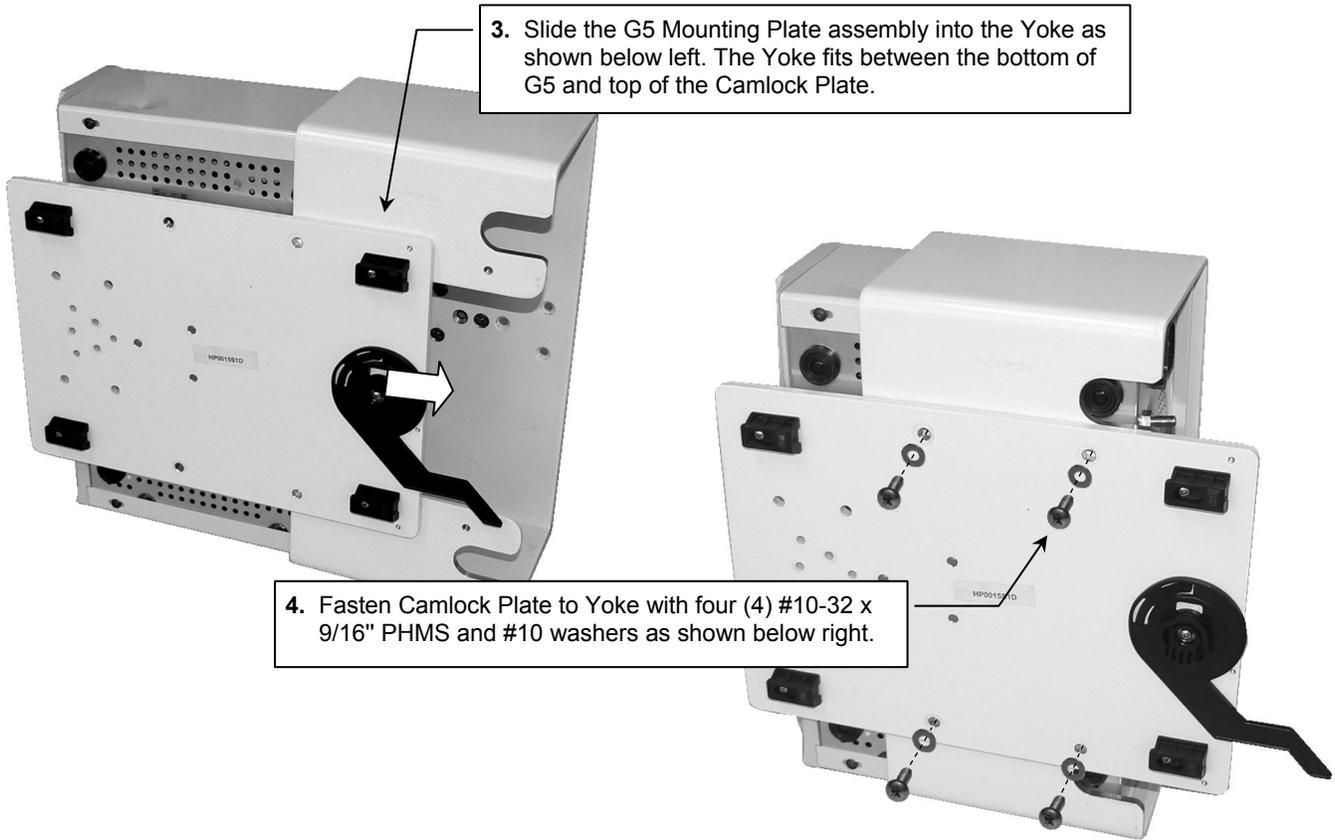


Tools required: Phillips screwdriver (not provided).

Mounting G5 in Stack Mount Yoke

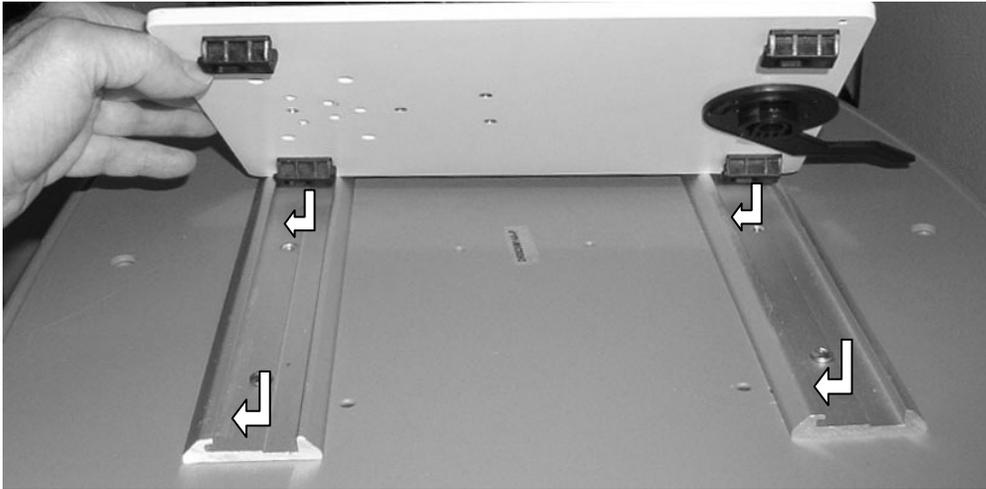
Installation Note: Table Top Mount is supplied by Philips.



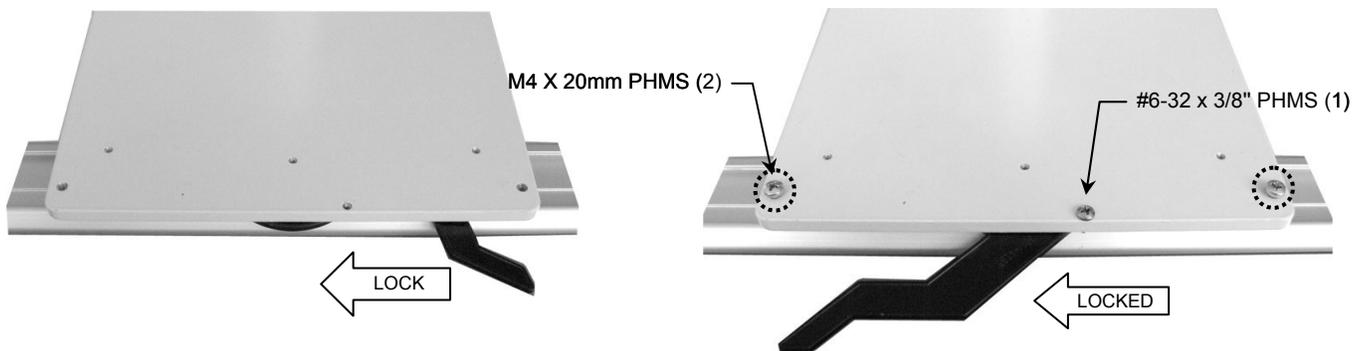


Mounting G5 Stack Mount Assembly in Camlock Rails

1. Insert the four (4) camlock feet in camlock rails. **Installation Note:** Camlock Lever must be in the "unlocked" position when mounting feet in Rails



2. Lock Camlock Plate by moving Camlock Lever from right to left. To prevent Camlock Lever from being unlocked, insert one (1) #6-32 x 3/8" PHMS in the threaded hole to the right of the Lever (below right). To further secure the Camlock Mount in the Rails, insert one (1) M4 x 20mm PHMS in each of the two (2) threaded holes at the rear corners of the Mount (below right). Stop tightening these screws when they make contact with the bottom of the Rail.



Mounting the Display, Remote Speedpoint, External Alert Device, and Power Supply (not shown)

Mount the display, remote speedpoint, external Alert device, and power supply (if applicable) in accordance with separate installation guide titled "Philips MP90 Remote Speedpoint Mounting Bracket and Adapter, and External Alert Device Mounting Bracket" (DU-AG-0019-80). All parts and hardware are included in separate installation kit.

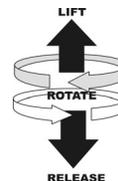
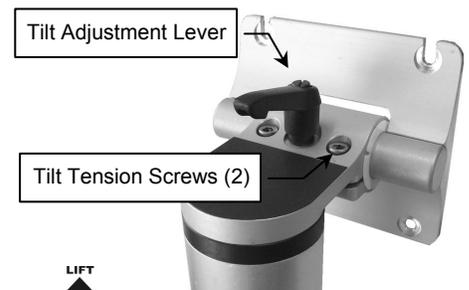


Adjusting Tilt Tension

Tilt Tension: Adjust overall tilting tension by evenly tightening or loosening two (2) tilt tension screws with the 5/32" hex wrench provided. Once overall tilt tension is set, use Tilt Adjustment Lever to fine tune/lock tilt position.

Tilt Adjustment: Turn Tilt Adjustment Lever counterclockwise (CCW) to loosen. Lever provides ratchet-style adjustment (see **Note** below). Grasp the display and tilt to desired angle. Turn Tilt Adjustment Lever clockwise (CW) to tighten and lock position.

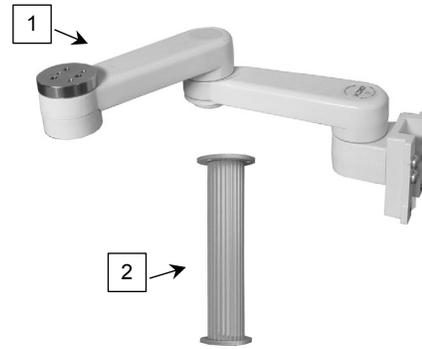
Note: The Tilt Adjustment Lever is a multi-position clamping lever that operates by lifting, rotating, and releasing the handle.



Installing Articulating Arm in Left Side Channel

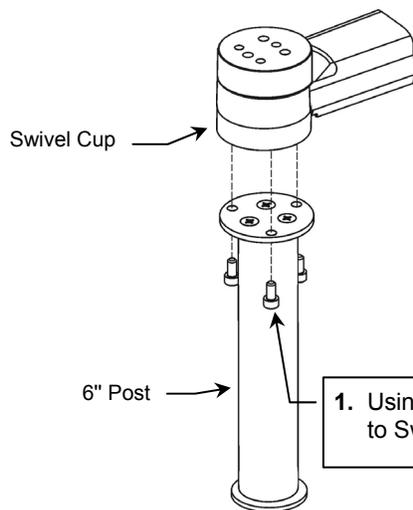
The following parts and hardware are included in this installation kit (hardware not shown):

Item #	Description	Qty
1	M-Series Arm, 8" x 8" Articulating	1
2	Down Post, 6"	1
3	#10-32 x 3/8" Socket Head Cap Screw (SHCS)	3
4	1/8" Hex Wrench	1
5	5/32" Hex Wrench	1

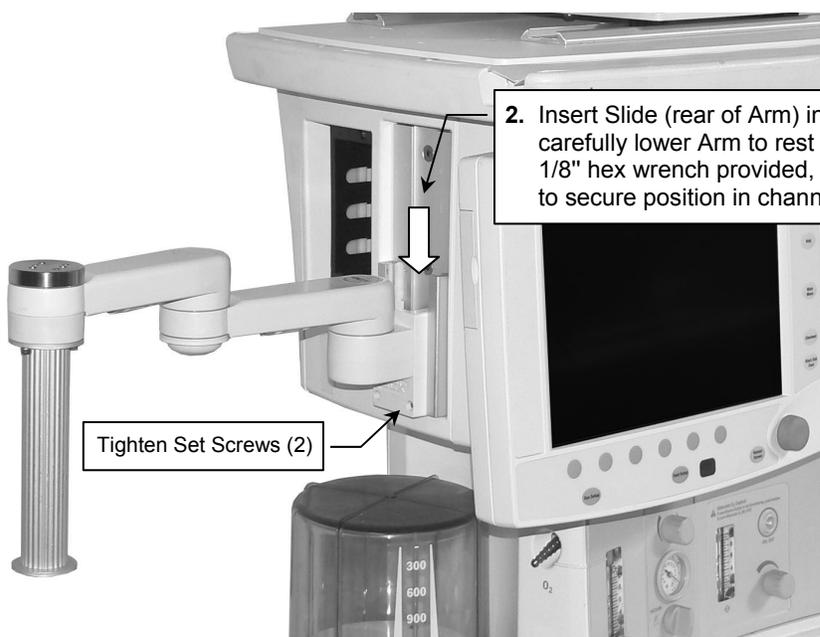


Tools Required

- 5/32" hex wrench (provided)
- 1/8" hex wrench (provided)



1. Using the 5/32" hex wrench provided, fasten 6" Down Post to Swivel Cup with three (3) #10-32 x 3/8" SHCS as shown.



2. Insert Slide (rear of Arm) in opening in top of channel and carefully lower Arm to rest at bottom of channel. Using the 1/8" hex wrench provided, tighten two (2) socket set screws to secure position in channel.

Tighten Set Screws (2)

Mounting FMS on Down Post

Follow Philips instructions for mounting FMS on Down Post. A Philips-supplied clamp is required for this installation.

Installation Note: The clamp on the rear of the FMS may be rotated 90° to allow vertical mounting of the FMS as shown below right.



Periodic Maintenance

All fasteners associated with the mounting system should be inspected periodically and tightened or adjusted as necessary for optimal operation and safety.

Cleaning the Mounting Assembly

CAUTION: GCX makes no claims regarding the efficacy of the listed chemicals or processes as a means for controlling infection. Consult your hospital's infection control officer or epidemiologist. To clean or sterilize mounted devices or accessory equipment, refer to the specific instructions delivered with those products.

1. 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).
2. The surface finish will be permanently damaged by strong chemicals and solvents such as acetone or trichloroethylene.
3. Steel wool or other abrasive material should never be used.
4. Damage caused by the use of unapproved substances or processes will not be warranted. We recommend testing of any cleaning solution on a small area of the arm that is not visible to verify compatibility.
5. Never submerge or allow liquids to enter the arm. Wipe any cleaning agents off the arm immediately using a water-dampened cloth. Dry mounting assembly thoroughly after cleaning.