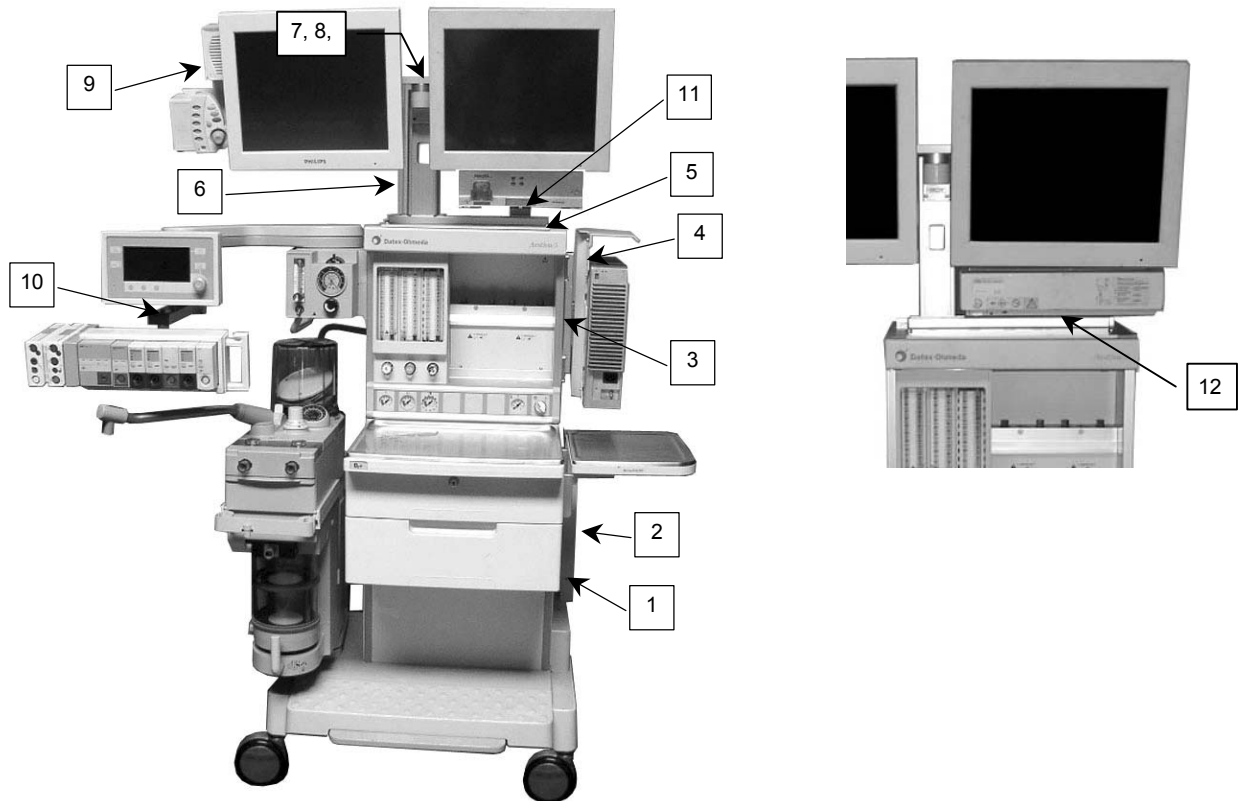


## Installation Guide

### Philips MP90 Dual Display Mounting Kit for Datex-Ohmeda Aestiva Anesthesia Machine

The following Installation Kits comprise the MP90 installation kit for Aestiva (refer to *Page #* listed below for list of parts, and installation procedure).

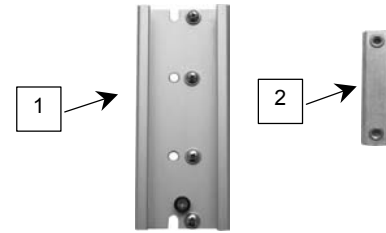
Item #	Kit Part Number	Description	Page #
1	OH-0010-80	7" Channel Mounting Kit	2
2	DR-0026-99	Counterweight Kit, 30 lbs	3 - 4
3	DX-0024-08	12" Channel Mounting Kit	5
4	AG-0019-85B	CPU Mounting Kit (includes hardware & installation guide)	6
5	DX-0024-84B	Top Plate/15" Channel Assembly (includes hardware & installation guide)	7
6	HZ-0008-01	Dual Channel Column with Horizontal Mounting Slide	8
7	FLP-0008-11	Dual Display Mounting Bar	9
8	WMM-0005-04	Flush Mount	9
9	AG-0019-80	Remote Speedpoint Mounting Kit (includes hardware & installation guide)	10
10	DX-0024-89B	Boom Arm Down Post Kit	10 - 11
11	AG-0018-39	G5 Horizontal Mounting Adapter for Horizontal Channel	12
12	HP-0106-80	Horizontal Channel Mount for AGM	13



## Mounting the 7" Channel

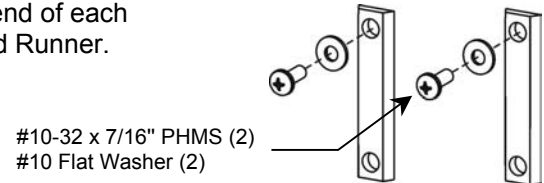
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Channel, 7" for Dovetail Track	1
2	Dovetail Runner	2
3	#10-32 X 7/16" Pan Head Machine Screw (PHMS)	4
4	#10 Flat Washer	4



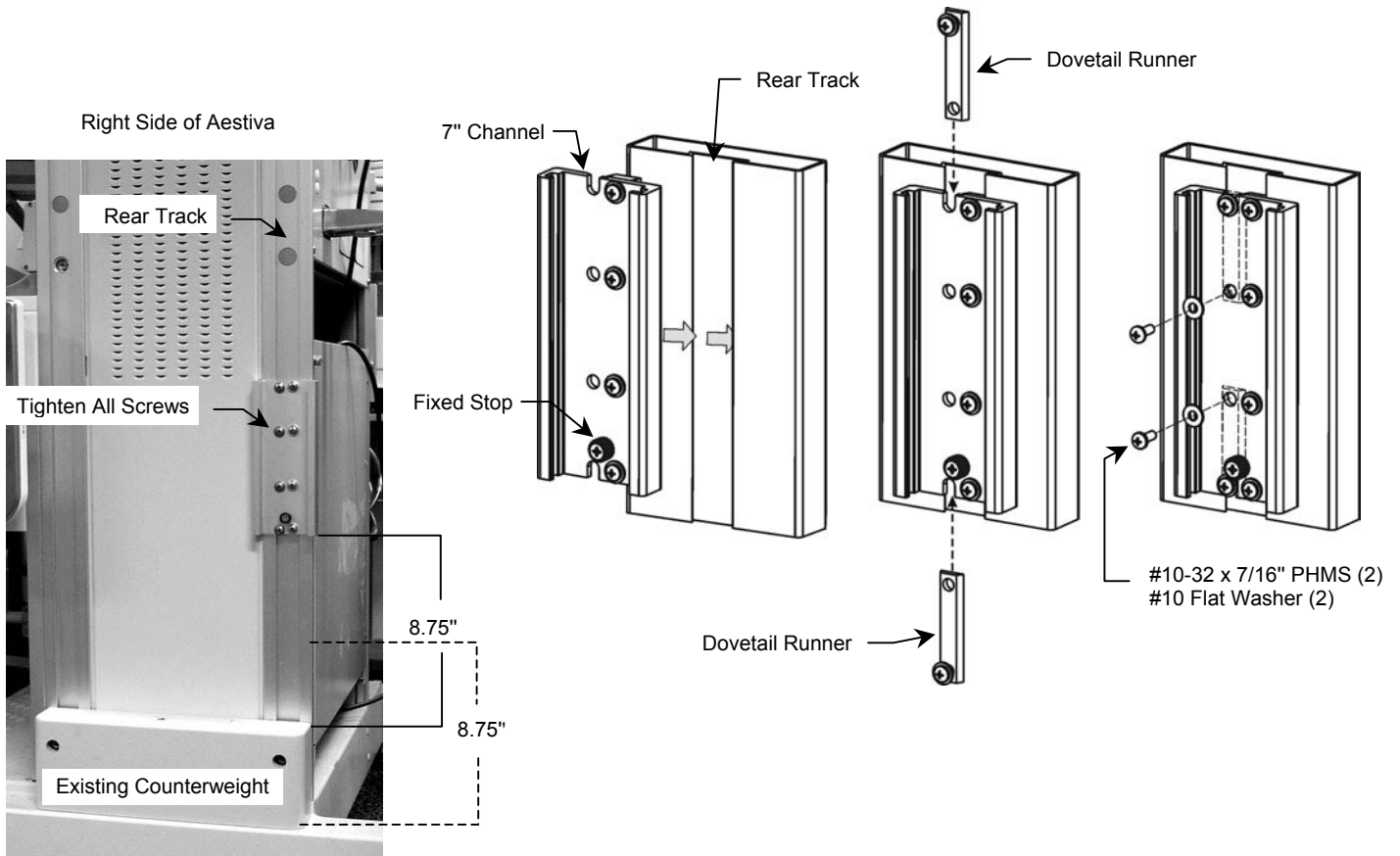
**Tools Required:** Phillips screwdriver.

1. Thread one (1) #10-32 x 7/16" PHMS (with #10 flat washer) into one end of each Dovetail Runner, leaving 6mm of thread exposed between washer and Runner. These Runners will be inserted behind the Channel in step 3.



**Refer to Photo and Illustrations Below for Steps 2 - 5:**

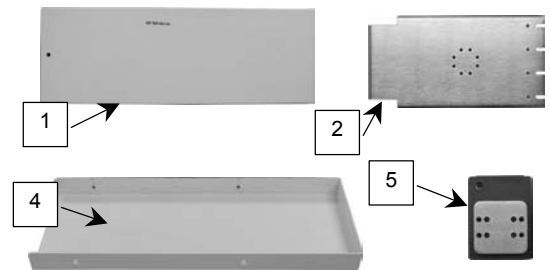
2. Insert Channel Assembly (Fixed Stop downward) into rear track and slide as far as possible to right side of the track.
3. While holding Assembly in position, insert upper and lower Dovetail Runners in track (behind Channel), ensuring that screws slide into slots and washers are positioned on same side as screw heads.
4. Thread two (2) #10-32 x 7/16" PHMS (with #10 washers) into remaining threaded holes in Dovetail Runners.
5. Position bottom of Channel 8.75" above base of machine or above existing counterweight (see photo below left). Tighten all eight (8) screws in Channel to secure position in track.



## Mounting the Counterweight

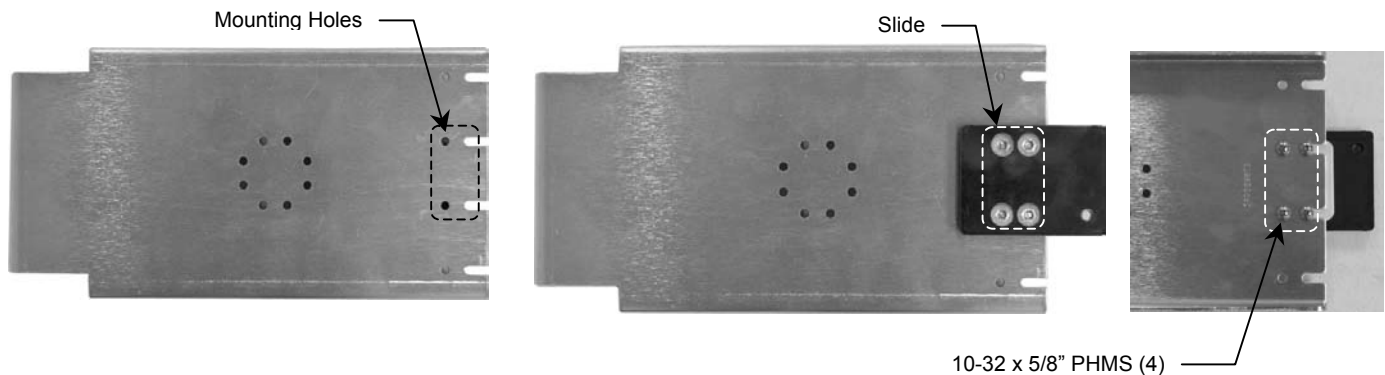
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Weight Bar, 30 lbs.	1
2	Mounting Bracket	1
3	#10-32 x 1/4" Flat Head Machine Screw (FHMS), 100°	4
4	Counterweight Cover	1
5	Slide	1
6	#10-32 x 5/8" Pan Head Machine Screw (PHMS)	4

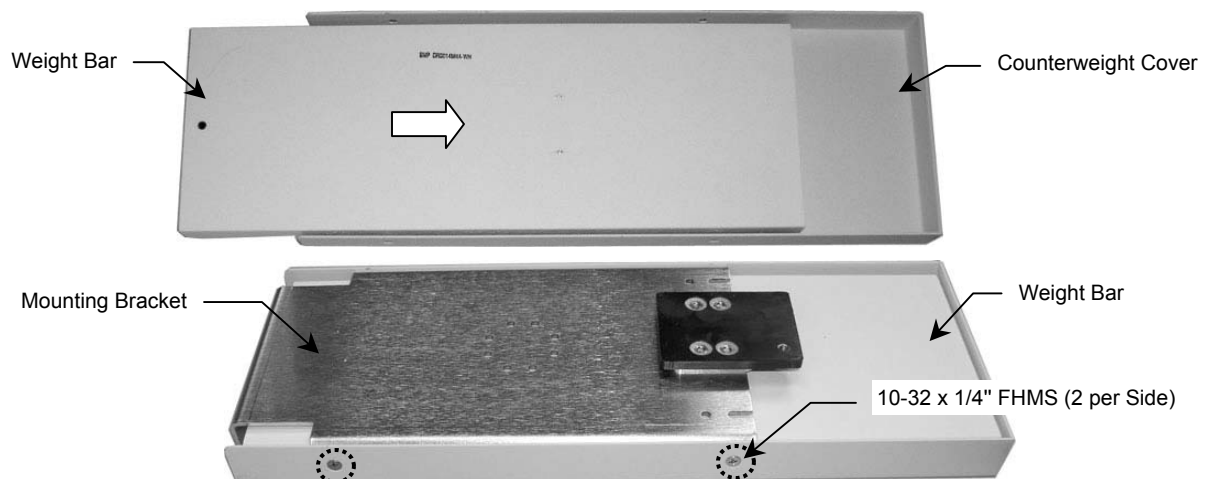


**Tools Required:** Phillips screwdriver.

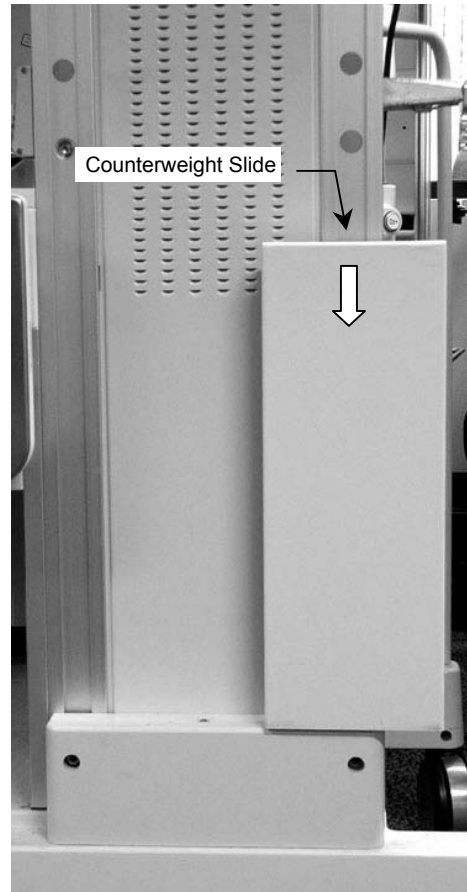
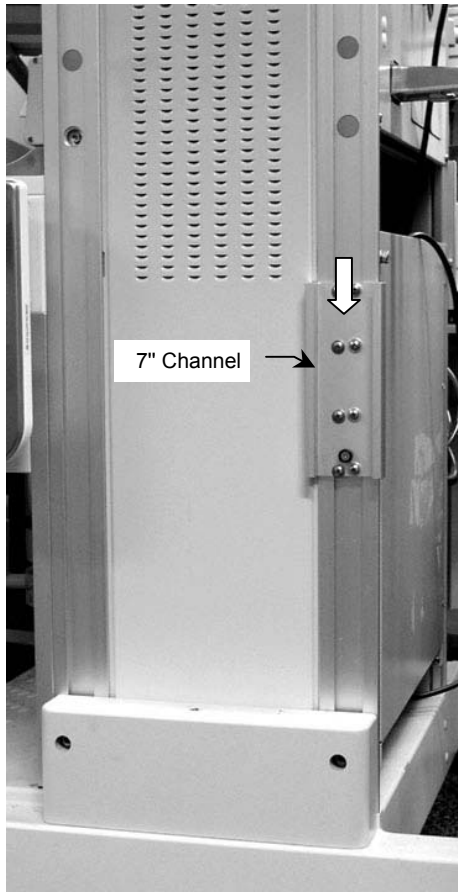
1. Identify the 4-hole Slide-mounting pattern on the Mounting Bracket (below left). Align the mounting holes on the Slide with the mounting pattern on the Bracket (below center). Secure Slide to Bracket with four (4) #10-32 x 5/8" PHMS (below right). Installation **Note:** Screws are inserted from the inner side of the Bracket (below right).



2. Turn Counterweight Cover upside down and slide the Weight Bar into Cover as shown below. Place the Mounting Bracket over the Weight Bar (Bracket fits between Cover and Weight Bar) and fasten Cover to Bracket with four (4) #10-32 x 1/4" FHMS.



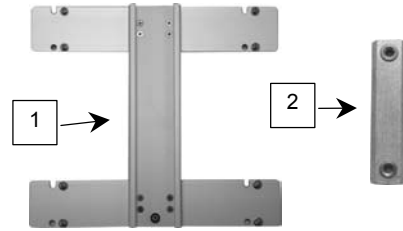
3. Ensure Slide is at the upper end of the Counterweight assembly. Insert Slide in top of Channel and carefully lower the Counterweight until it rests against the fixed stop at the bottom of the Channel (below right).



## Mounting the 12" Channel

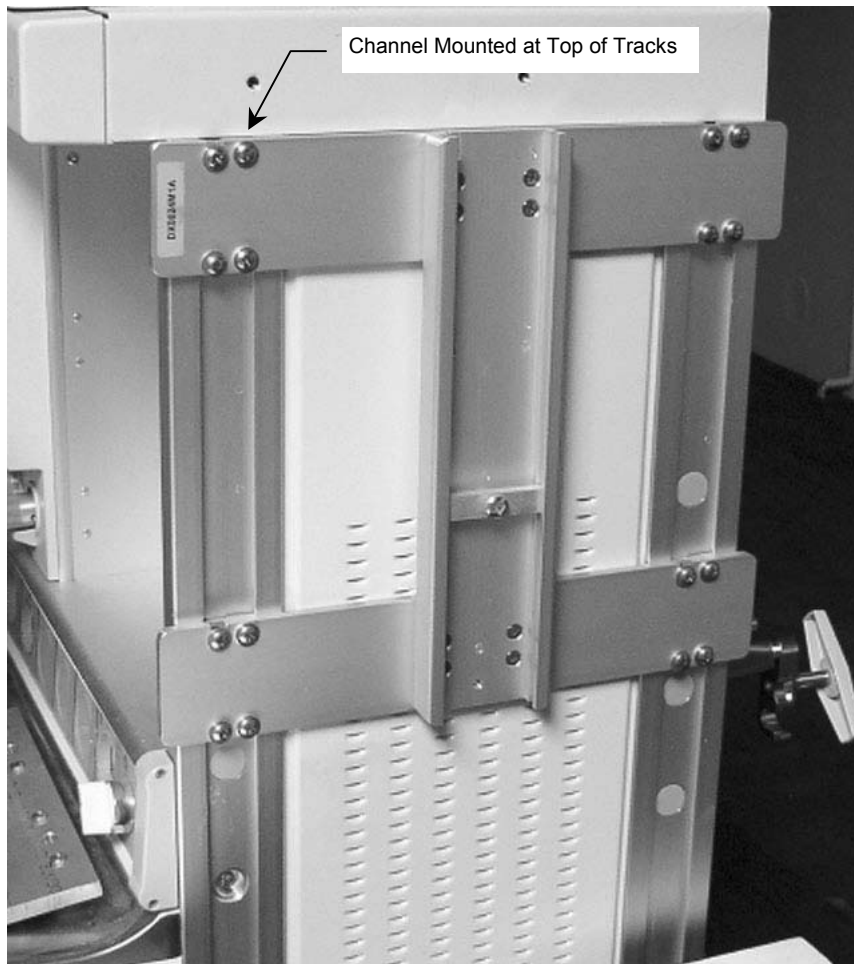
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Mounting Channel Assembly, 12"	1
2	Dovetail Runner	4
3	#10-32 X 7/16" Pan Head Machine Screw (PHMS)	8
4	#10 Flat Washer	8



**Tools required:** Phillips screwdriver.

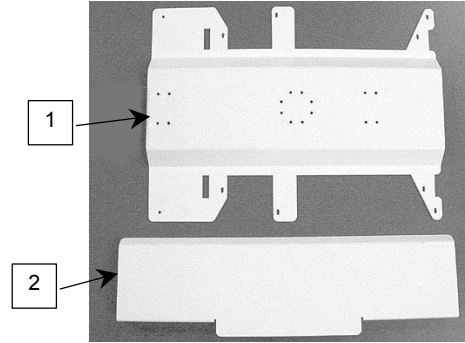
1. Install 12" Channel at top of tracks as shown below. Follow instructions included with Channel Kit for installation on right side of Aestiva.



## Mounting the CPU in the 12" Channel on Right Side of Aestiva

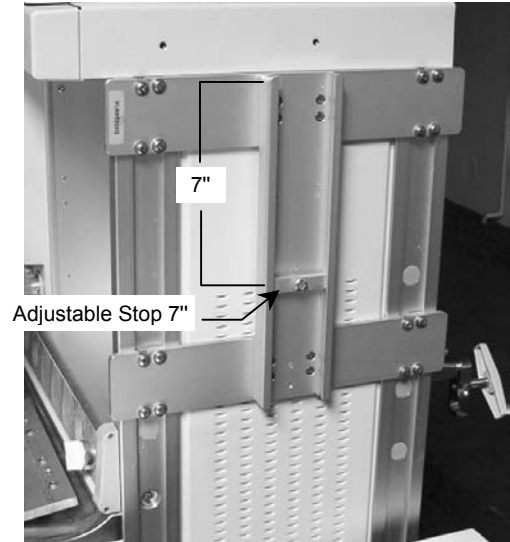
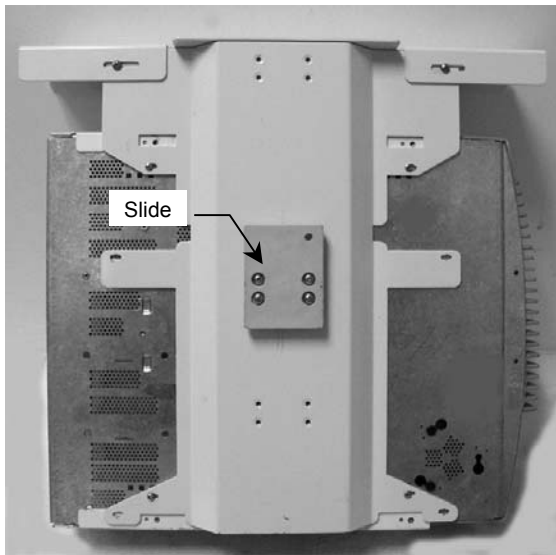
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Mounting Pan	1
2	Spill Shield	1



**Tools required:** Phillips screwdriver (not provided).

1. Attach Mounting Pan and Spill Shield to CPU in accordance with installation guide included with the CPU Mounting Kit. Attach Slide to Mounting Pan in center mounting pattern as shown below left.
2. Install Adjustable Stop 7" below top Channel as shown below right.



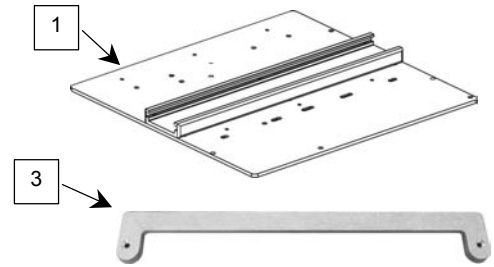
3. Insert Slide (rear of CPU Mounting Pan) in Channel and carefully guide CPU to rest against Adjustable Stop.



## Attaching Top Plate/15" Channel to Top of Machine

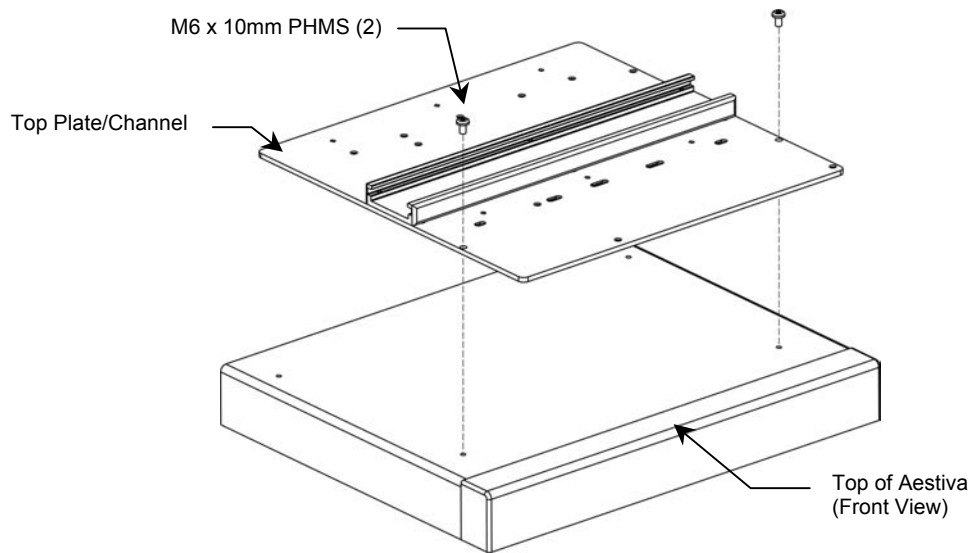
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Horizontal Channel Plate	1
2	M6 x 10 Pan Head Machine Screw (PHMS)	2
3	Security Bracket	1
4	M6 x 20 mm Flat Head Machine Screw (FHMS)	2

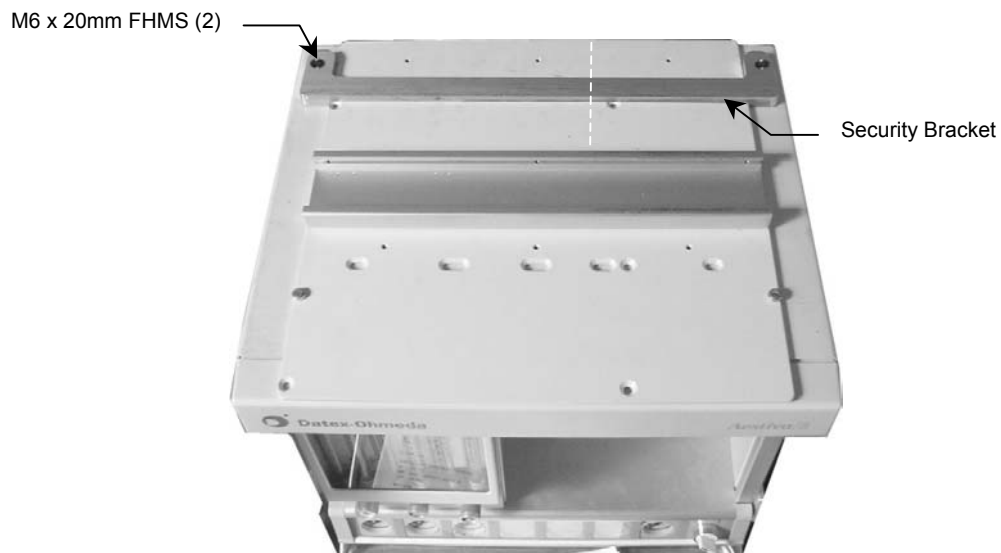


**Tools required:** Phillips screwdriver (not provided).

1. Fasten the Horizontal Channel Plate to the top of Aestiva with two (2) M6 x 10 mm PHMS as shown below.



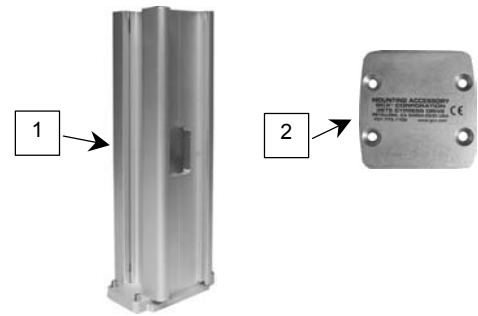
2. Fasten Bracket across rear of Top Plate with two (2) M6 x 20 mm FHMS as shown below.



## Mounting the Dual Channel Column in the Channel

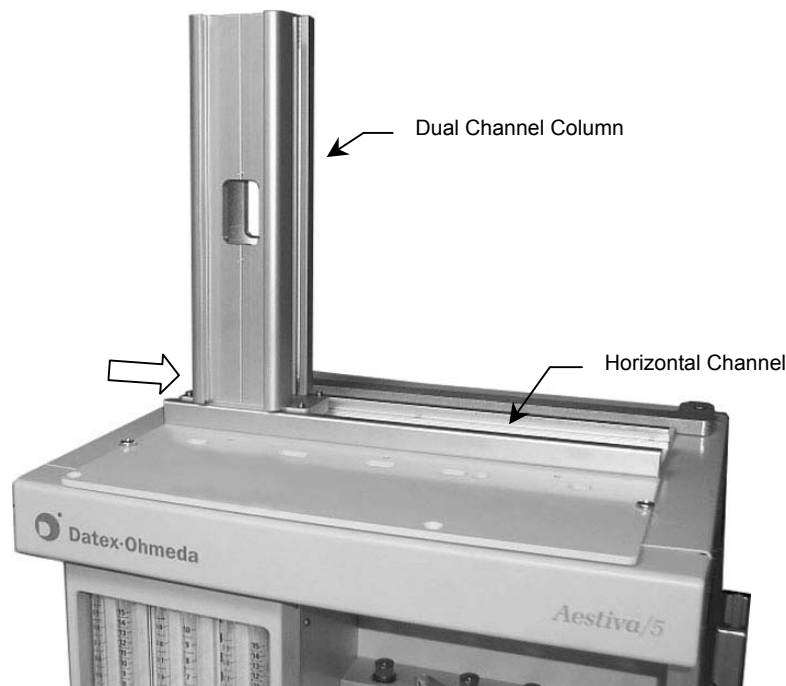
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Dual Channel Column, 12"	1
2	Cover Plate	1
3	1/4-20 x 5/8" FHSCS (4)	4
4	1/8" Hex Wrench	1
5	5/32" Hex Wrench	1



**Tools required:** 1/8" and 5/32" hex wrenches (provided).

1. Guide the Channel Slide (bottom of Column) into end of channel and guide Column to mounting position at end of channel. Using the 1/8" hex wrench provided, tighten four (4) set screws in Channel Slide to secure the Column in the channel. **Installation Note:** Do not install Cover Plate on top of Dual Channel Column until the Display Mounting Bar has been installed (see next page).

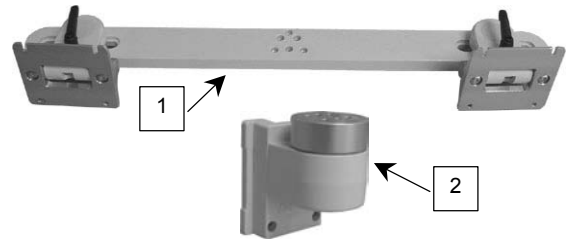




## Mounting the Dual Display Mounting Bar on the Dual Channel Column

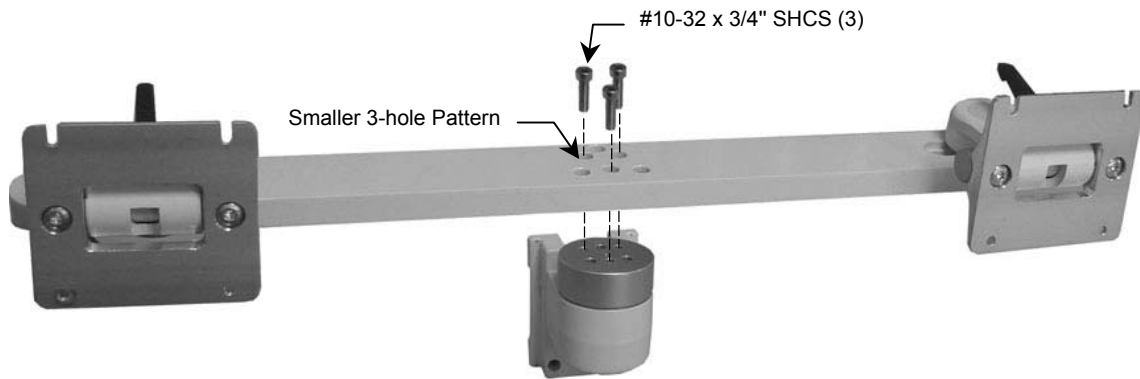
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Dual Display Mounting Bar	1
2	Flush Mount. Swivel Only	1
3	#10-32 x 3/4" Socket Head Cap Screw (SHCS)	3
4	1/8" Hex Wrench	1
5	5/32" Hex Wrench	1

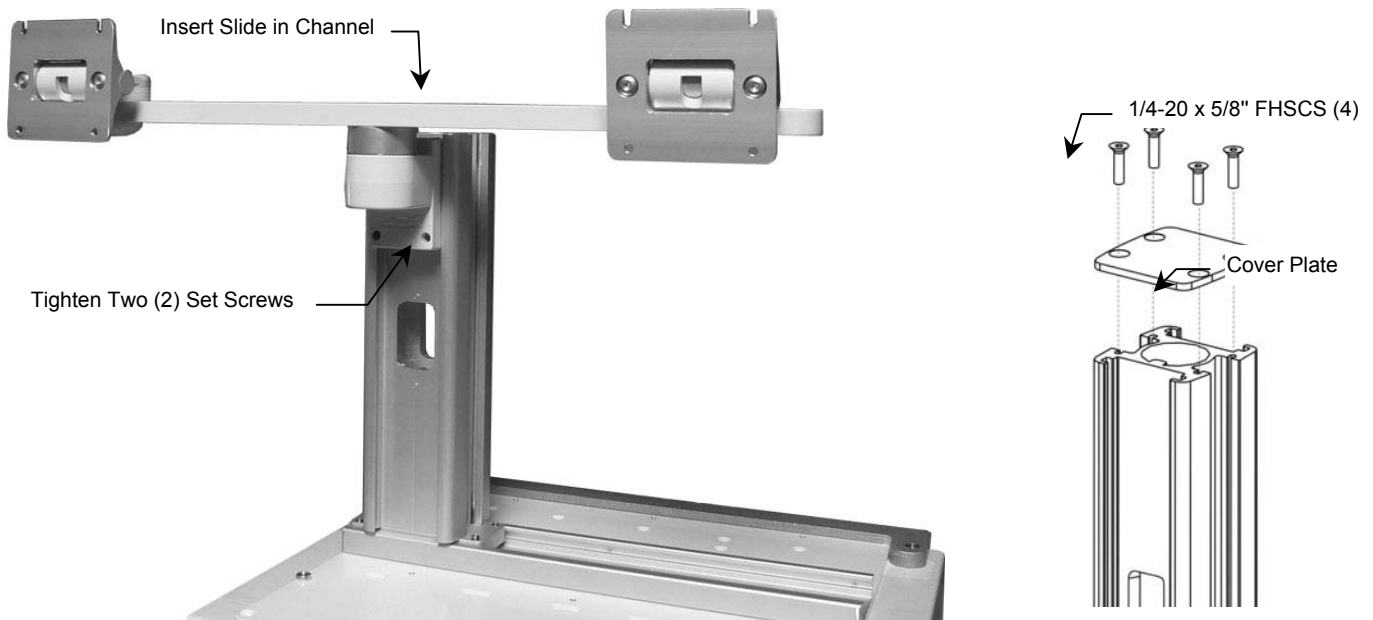


**Tools required:** 1/8" and 5/32" hex wrenches (provided), 1/2" wrench (not provided).

- Using the 5/32" hex wrench provided, fasten the Dual Display Mounting Bar to the Swivel Head on the Flush Mount with three (3) #10-32 x 3/4" SHCS as shown. Installation Note: Use the smaller 3-hole mounting pattern in the Display Mounting Bar and Swivel Head.



- Insert Flush Mount in Channel, move to mounting position at top of Channel and tighten two (2) set screws (bottom of Slide) with 1/8" hex wrench provided (below left).
- Using the 5/32" hex wrench provided, fasten Cover Plate to top of Dual Channel Column with four (4) 1/4-20 x 5/8" FHSCS (below right).



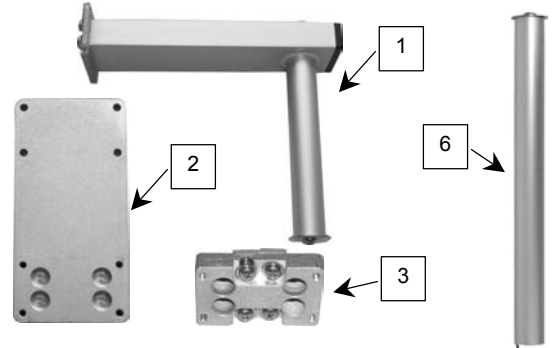
## Mounting Displays, Remote Speedpoint, and External Alert Device

Installation kits are provided for mounting two (2) flat panel displays on the Display Mounting Bar. Flat Panel Displays \*Remote Speedpoint, External Alert device, and power supplies must be mounted 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)*.

### Attaching the Down Post to the Data Arm

The following parts and hardware will be used in this installation (hardware not shown):

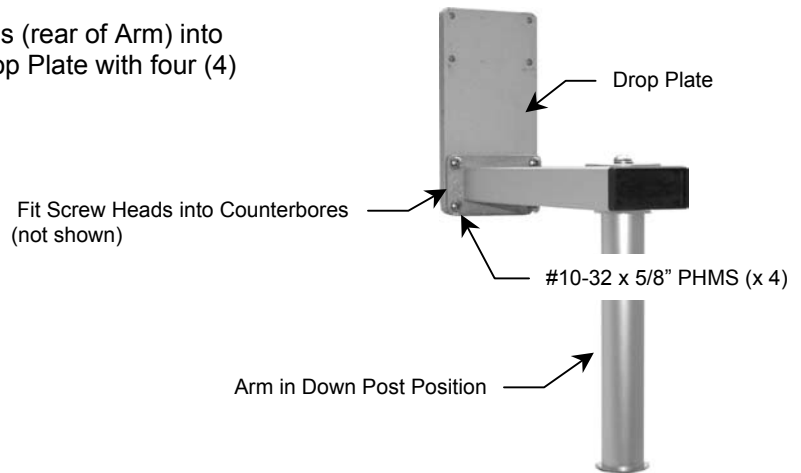
Item #	Description	Qty
1	Down/Up Post Arm Assembly	1
2	Drop Plate	4
3	Slide Plate	1
4	#10-32 x 5/8" Pan Head Machine Screw (PHMS)	1
5	#10-32 x 3/4" PHMS	4
6	11.65" Post	1
7	5/32" Hex Wrench	1



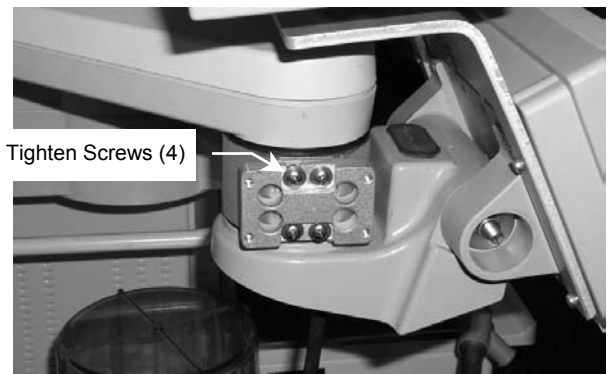
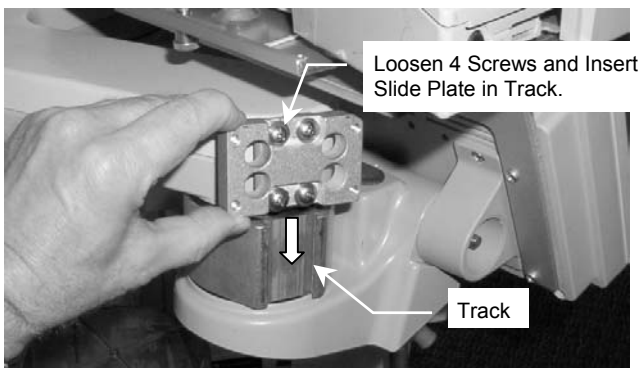
**Tools Required:** Phillips screwdriver, 5/32" hex key (provided for post replacement only).

**Installation Note:** A separate 11.65" Post is included in this kit for mounting two module servers. Use the 5/32" hex wrench (provided) to replace the 6.9" Post with the 11.65" Post.

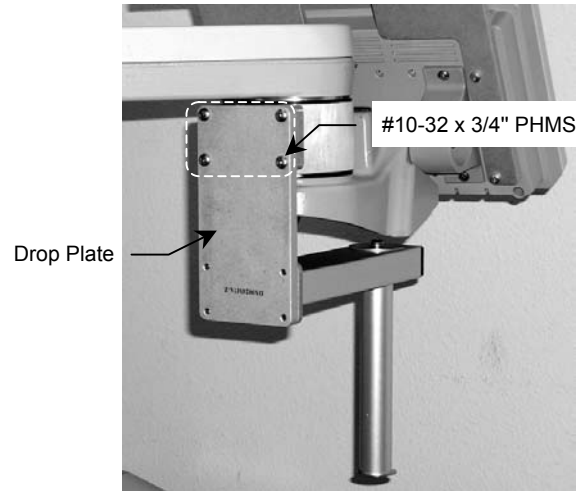
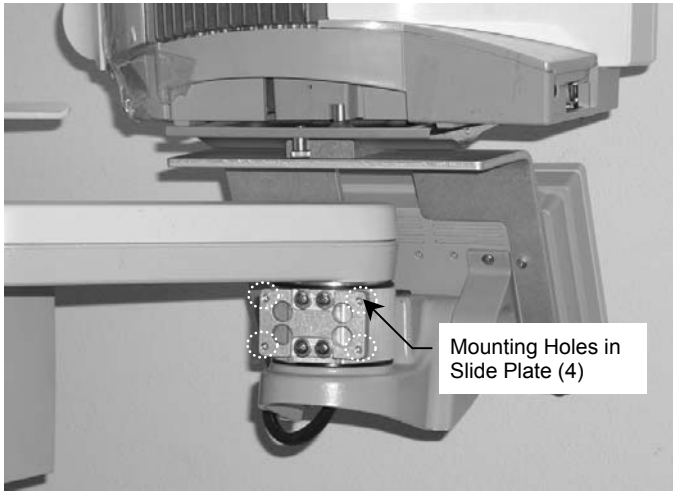
1. Align Arm with Drop Plate by fitting screw heads (rear of Arm) into counterbores on Drop Plate. Fasten Arm to Drop Plate with four (4) #10-32 x 5/8" PHMS as shown below.



2. Loosen but do not remove four (4) screws in Slide Plate (below left). Guide dovetails (rear of Slide Plate) into track on rear of Data Arm. Center Slide Plate in track and tighten all four (4) screws in Slide Plate.

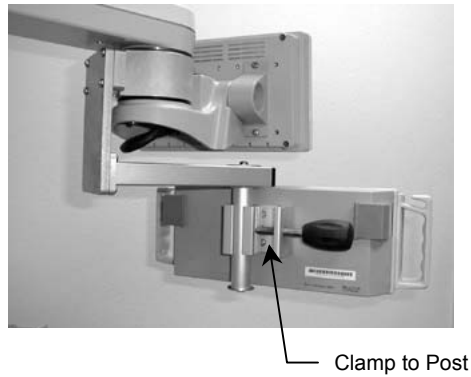


3. Locate four mounting holes in Slide Plate shown below left. Fasten Drop Plate to Slide Plate with four (4) #10-32 x 3/4" PHMS as shown below right.



### Mounting FMS on Down Post

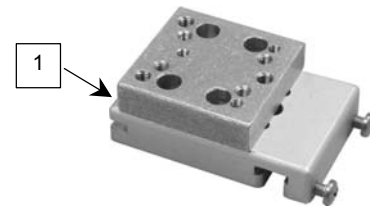
1. Mount FMS on Down Post by placing the Clamp around the Post and tightening the Knob.



## Mounting G5 in Horizontal Channel

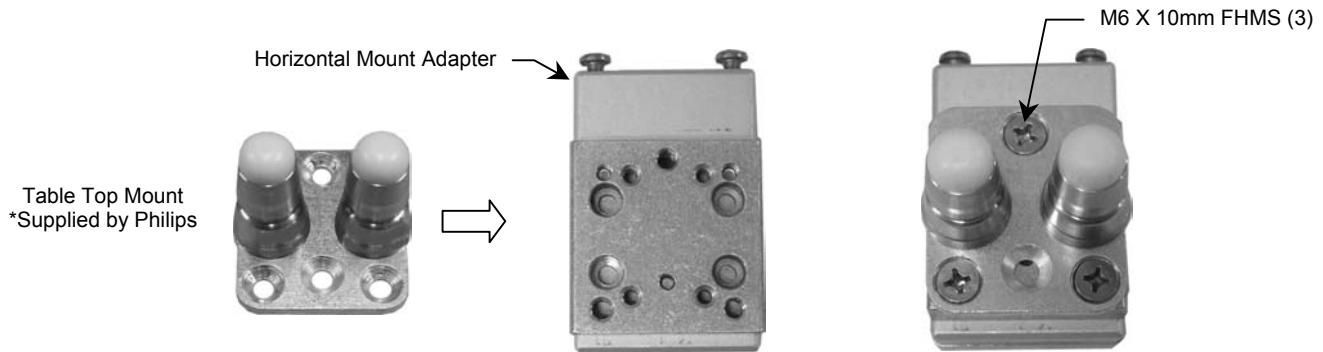
The list below includes parts and hardware that will be used in this installation (hardware not shown).

Item #	Description	Qty
1	Horizontal Mount Adapter	1
2	M6 x 10mm Flat Head Machine Screw (FHMS)	3



**Tools Required:** Phillips screwdriver (not provided).

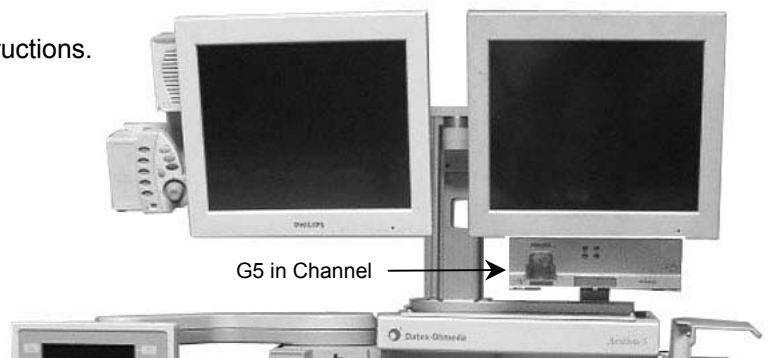
1. Fasten the Philips-supplied Table Top Mount to the Mounting Adapter with three (3) M6 x 10mm.



2. With two (2) set screws facing oriented toward the rear of the application, slide Horizontal Mount into Channel and move Mount to desired instrument-mounting position (example below left).
3. Tighten two (2) Phillips-head set screws at rear of Horizontal Mount to prevent movement of Mount (below right).



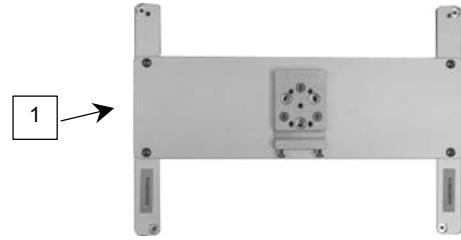
4. Mount G5 in accordance with Philips mounting instructions.



## Mounting AGM in Horizontal Channel

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

Item #	Description	Qty
1	Horizontal Channel Mount	1
2	M3 x 10mm Pan Head Machine Screws (PHMS)	4

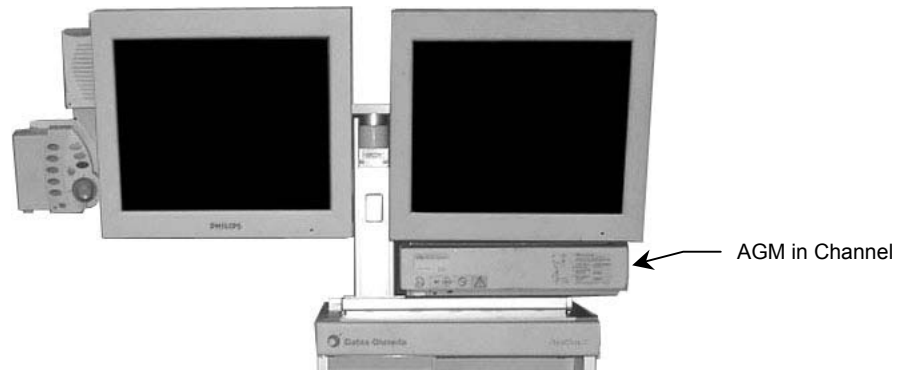


**Tools Required:** Phillips screwdriver (#1 tip).

1. Attach Horizontal Channel Mount to AGM in accordance with installation guide included with the installation kit.



2. Mount AGM in Channel as shown below.



## Installing Channel Covers (not shown)

Channel Covers are provided for both the 2-inch and 1-inch wide Channels on the Dual Channel Column. Channel Covers serve both as an aesthetic cover and may be used for cable management along the Channel. After all equipment has been mounted, install Channel Covers in accordance with separate installation guide.

## Making Adjustments to the Display Bar

### Horizontal Adjustment

The two (2) Display Mounts may be adjusted horizontally to accommodate two (2) flat panel displays with *enclosures* up to 21" in width (not diagonal measurement). Using a 1/2" [13 mm] wrench, loosen the bolt on the bottom of the Display Bar. Move display to desired position and tighten bolt. **Note:** This adjustment may affect both horizontal movement and swivel tension of the display. Ideally, this adjustment would allow the display to swivel but not move horizontally.

### Swiveling the Display

Swivel displays individually (limited to  $\pm 15^\circ$ ) or swivel the Display Bar, Arm, or Roll Stand.

### Adjusting Swivel Tension

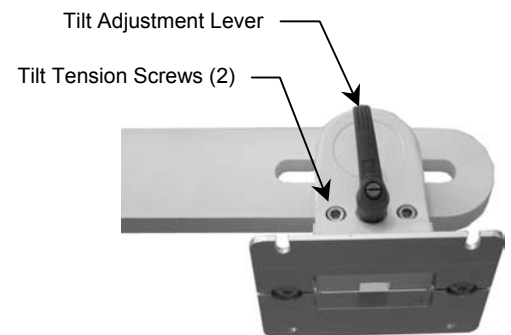
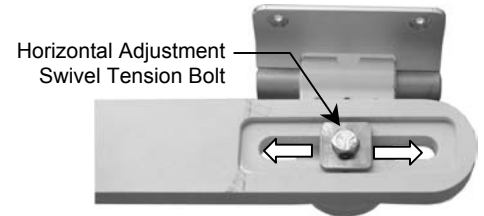
Using a 1/2" [13 mm] wrench, tighten or loosen the Swivel Tension Bolt as required to achieve desired tension. See *Horizontal Adjustment "Note"* above.

### Adjusting Tilt

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

### Adjusting Tilt Tension

Using the 5/32" hex key (provided), equally tighten or loosen the two (2) Tilt Tension Screws. Once desired tilt tension is set, use the Tilt Adjustment Lever to fine tune/lock the tilt position.



## Routine Maintenance of the Mounting System

Periodically check all mounting hardware. Tighten fasteners and adjust as necessary for optimal operation.

## Cleaning the Mounting System

**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 instruments 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 and trichloroethylene.
3. Do not use steel wool or other abrasive material to clean the mounting assembly.
4. Damage caused by the use of unapproved substances or processes will not be covered by warranty. We recommend that you test any cleaning solution on a small area of the mounting assembly that is not visible to verify compatibility.
5. Never submerge or allow liquids to enter the components of the mounting system. Wipe all cleaning agents off the mounting system immediately, using a water-dampened cloth. Dry mounting assembly thoroughly after cleaning.