GCX INSTRUMENT MOUNTING SYSTEMS

GCX Mounting Assembly Installation Guide
Philips MP90 (with AGM) Mounting Kit
for Datex Ohmeda Aestiva Anesthesia Machine

The purpose of this guide is to:

1. *Describe mounting of the 7" Channel.*
2. *Describe mounting of the Counterweight.*
3. *Describe mounting of AGM.*
4. *Describe attachment of Display Mounting Bracket with model 7100 or 7900 ventilators.*
5. *Describe mounting of display on Display Mounting Bracket.*
6. *Describe attachment of the Boom Arm Up Post or Down Post Assembly.*

⚠ **CAUTION:** The Counterweight must be mounted on the anesthesia before mounting the MP90 and related instruments. For this application the Counterweight will be mounted on the right side of the machine. Attachment of the 7" Channel Assembly is required for mounting the Counterweight.

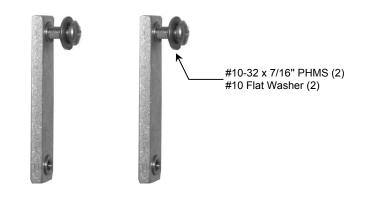## Mounting the 7" Channel

Parts Reference

The following parts and hardware will be used in this installation (see photo for parts, 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

7" Channel

Dovetail Runners (2)

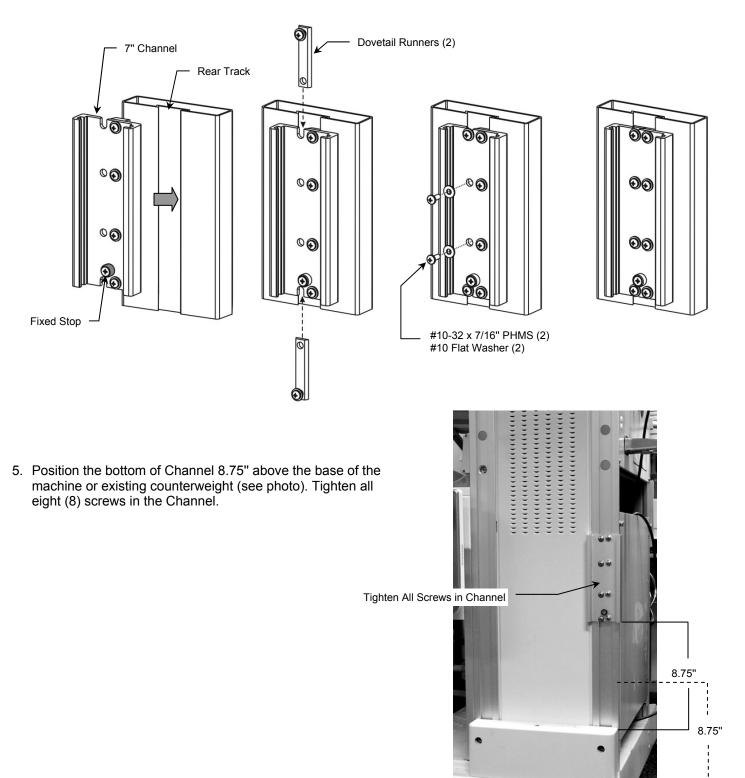**Tools Required for This Task:** Phillips screwdriver.

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.

#10-32 x 7/16" PHMS (2)
#10 Flat Washer (2)

From Left to Right in Illustrations Below:

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 the remaining threaded holes in the Dovetail Runners.

7" Channel
Rear Track
Dovetail Runners (2)
Fixed Stop
#10-32 x 7/16" PHMS (2)
#10 Flat Washer (2)

5. Position the bottom of Channel 8.75" above the base of the machine or existing counterweight (see photo). Tighten all eight (8) screws in the Channel.

Tighten All Screws in Channel

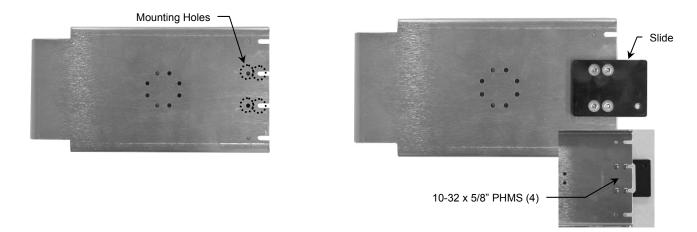8.75"

8.75"

Mounting the Counterweight

Parts Reference

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

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

Weight Bar

Mounting Bracket

Counterweight Cover

Slide

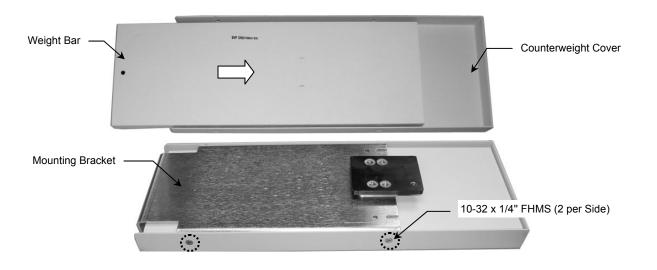**Tools Required for This Task:** Phillips screwdriver.

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. 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).
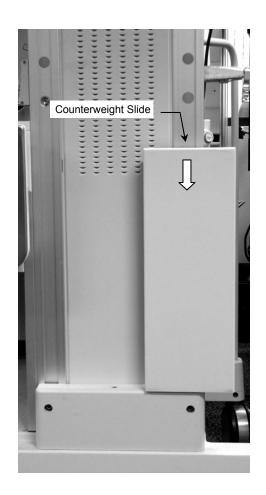
Mounting Holes

Slide

10-32 x 5/8" PHMS (4)

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 inside Cover) and fasten Cover to Bracket with four (4) #10-32 x 1/4" FHMS.

Weight Bar

Counterweight Cover

Mounting Bracket

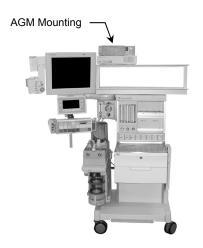10-32 x 1/4" FHMS (2 per Side)

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).

7" Channel

Counterweight Slide

Mounting the AGM

The AGM is mounted on a Datex Ohmeda-supplied mounting system on top of the Aestiva. Refer to manufacturer's mounting instructions.
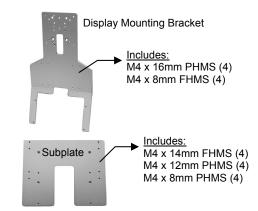

AGM Mounting

Attaching the Flat Panel Display-Mounting Bracket

Parts Reference

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

Item #	Description	Qty
1	Display Mounting Bracket (includes mounting hardware)	1
2	Subplate, Model 7100 (includes mounting hardware)	1
3	Hardware "For Use with VESA Standard Flat Panels" (M4 x 10mm, M4 x 14mm, and M4 x 20mm PHMS, 1/2" x 1/4" Nylon Spacers)	4 ea.
4	Hardware "For Use with HP M1095 Flat Panel" (M4 x 10mm PHMS, #8 x .030" Flat Washer)	4 ea.
5	Hardware "For Use with Datex AS/3 Flat Panel" (M6 x 12mm PHMS)	4
6	Hardware "For Use with Viewsonic VP-140 Flat Panel" (1/4-20 x 3/8" PHMS)	2

Display Mounting Bracket

Includes:
M4 x 16mm PHMS (4)
M4 x 8mm FHMS (4)

Subplate

Includes:
M4 x 14mm FHMS (4)
M4 x 12mm PHMS (4)
M4 x 8mm PHMS (4)

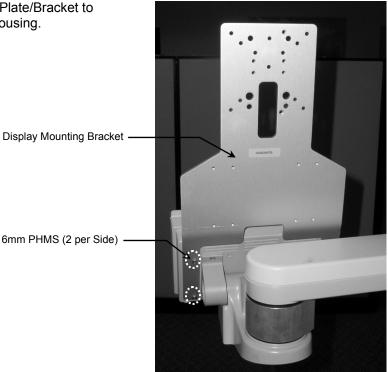**Tools Required for This Task:** Phillips screwdriver.

Installation Notes: A. The tilt mechanism that holds the ventilator display may require tightening to hold additional weight of patient monitor and display. It is not recommended that this assembly be used for monitors weighing more than 30 pounds because tilt adjustment will be difficult with heavier weights. GCX makes no claims regarding tip stability of the anesthesia machine because machine configuration and usage can vary considerably. We recommend that hospitals verify stability of the final configuration.

B. The procedure for attaching the Mounting Plate/Bracket Assembly to a model 7900 display is different than the procedure for model 7100. Identify your ventilator display below and follow the appropriate procedure beginning on page 2 of this installation guide.

Model 7900

Parts Required

Model 7100

Parts Required
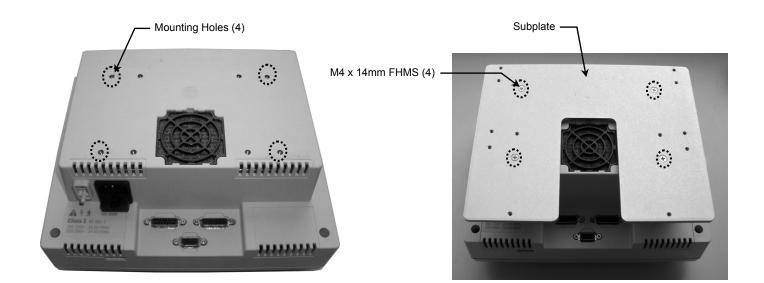
Model 7900 Display – Attaching the Flat Panel Display-Mounting Bracket

1. Using four (4) M4 x 16mm PHMS, attach Mounting Plate/Bracket to two (2) outer mounting holes on each side of rear housing.
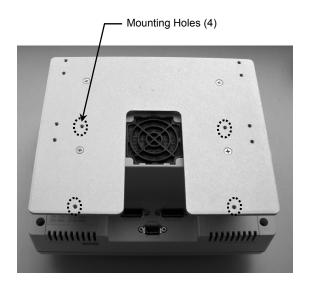
Display Mounting Bracket

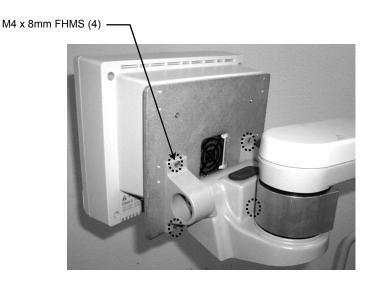M4 x 16mm PHMS (2 per Side)

Model 7100 – Attaching Mounting Plate/Bracket Assembly

1. Remove model 7100 from display arm by unscrewing four (4) mounting screws from rear of display.

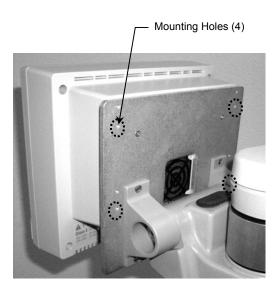2. Using four (4) M4 x 14mm FHMS, attach Subplate to four threaded holes on rear of monitor.

Mounting Holes (4)

Subplate

M4 x 14mm FHMS (4)

3. Locate four (4) threaded mounting holes on Subplate (below left). Using four (4) M4 x 8mm FHMS, fasten Subplate to display arm.

Mounting Holes (4)

M4 x 8mm FHMS (4)

4. Locate four (4) mounting holes on Subplate (below left). Using four (4) M4 x 12mm PHMS, fasten Display Mounting Bracket to Subplate. **Installation Note:** An upper set of mounting holes is provided on Subplate if additional height is required for the patient monitor.
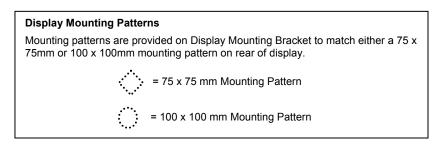
Mounting Holes (4)

Display Mounting Bracket

M4 x 12mm PHMS (4)

Mounting Display, Remote Speedpoint, External Alert Device, and Power Supply
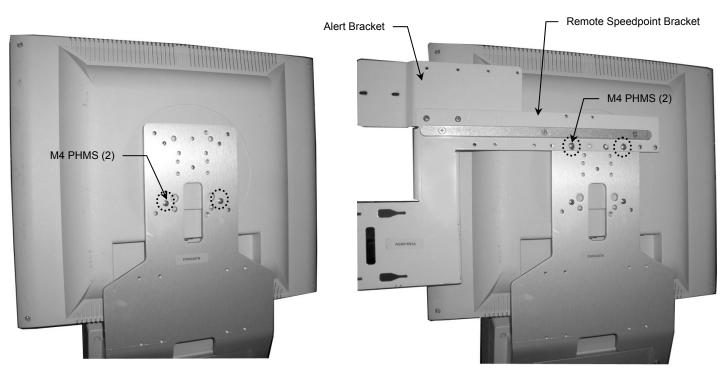
Both the Display and the Remote Speedpoint Bracket are mounted simultaneously. Please refer to separate installation guide, *Philips MP90 Remote Speedpoint Mounting Bracket and Adapter, and External Alert Device Mounting Bracket (DU-AG-0019-80)* to identify the required mounting configuration for your application. Once the Bracket-mounting configuration has been determined and Brackets have been assembled, follow the display-mounting procedure beginning on this page. **Installation Note:** A typical mounting configuration for the Remote Speedpoint and Alert Device is shown in this installation procedure.

1. Select the mounting pattern on the display that matches the mounting pattern on the Display Mounting Bracket (see right and below). The mounting pattern will be either 75 x 75mm or 100 x 100mm.

   Display Mounting Patterns

   Mounting patterns are provided on Display Mounting Bracket to match either a 75 x 75mm or 100 x 100mm mounting pattern on rear of display.

   ◇ = 75 x 75 mm Mounting Pattern

   ○ = 100 x 100 mm Mounting Pattern

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2. Select correct lengths of M4 pan head machine screws (PHMS) for mounting display. **Note:** Two (2) upper mounting screws will typically be 4mm longer than lower screws to accommodate thickness of Remote Speedpoint Bracket.

3. Insert two (2) M4 PHMS through lower two (2) mounting holes of Display Mounting Bracket and thread into two (2) corresponding mounting holes in display.

4. Insert two (2) M4 PHMS through Remote Speedpoint Bracket and Display Mounting Bracket and thread into mounting holes in display.

Alert Bracket — Remote Speedpoint Bracket

M4 PHMS (2) — M4 PHMS (2)

5. Complete bracket/instrument mounting in accordance with *Philips MP90 Remote Speedpoint Mounting Bracket and Adapter, and External Alert Device Mounting Bracket (DU-AG-0019-80).*

Attaching the Boom Arm Down Post or Side Post Assembly
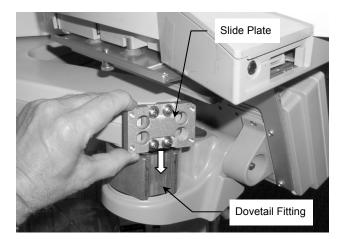
Parts Reference

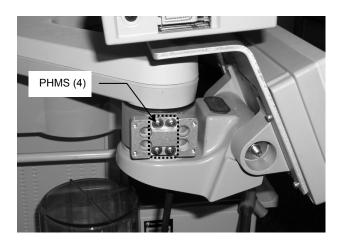The following parts and hardware will be used in this installation (see photo for parts, hardware not shown):

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

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

Installation Note: An 11.65" Post is included in this kit for mounting dual module racks. Use the 5/32" hex key (provided) to replace the 6.9" Post with the 11.65" Post.
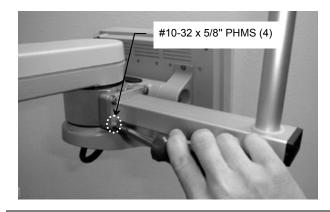
1. Insert the Dovetail Runners (rear of Slide Plate) into the dovetail fitting on the Boom Arm (below left). Tighten the four (4) PHMS to secure the Slide Plate (below right).
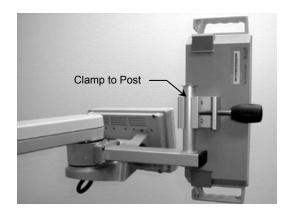

Attaching Arm as Up Post

1. Align Arm with Slide Plate (Post Up) and attach Arm to Plate with four (4) #10-32 x 5/8" PHMS (below left).
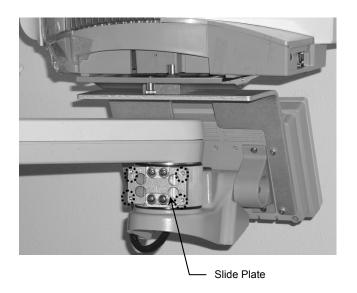2. Clamp module rack (or other device with clamp) to the Post as shown (below right).

Attaching Arm as Down Post

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

Arm/Screw Heads

#10-32 x 5/8" PHMS (4)

Drop Plate/Counterbores

2. Attach Drop Plate to Slide Plate using four (4) #10-32 x 3/4" PHMS (below center and right)

#10-32 x 3/4" PHMS (4)

Slide Plate

Drop Plate

3. Clamp module rack (or other device with clamp) to the Post.

Clamp to Post