GCX
INSTRUMENT MOUNTING SYSTEMS

Installation Guide

Mounting Kit for Mounting Philips Avalon CTS Cordless Fetal Transducer System on
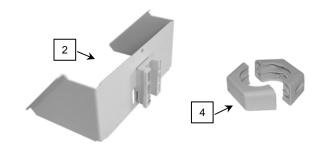Wall, 2" Post, Rail, or Slide-on Mounting Plate

The purpose of this guide is to:

1. Describe mounting of base station in wall channel (page 2).
2. Describe mounting of base station on 2" post (page 3)
3. Describe mounting of base station on a rail (pages 4 - 6).
4. Describe mounting of base station on a horizontal mounting plate (page 7).

Parts Reference

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

Item #	Description	Qty
1	7'' Channel (not shown – includes instructions)	1
2	Mounting Adapter with Slide	1
3	M3.5 x 6mm PHMS	4
4	Adjustable Stop (not shown)	1
5	Clamping Block (Front & Rear Halves)	1
6	#10-32 x 9/16'' Pan Head Machine Screw (PHMS)	2
7	Rail Mounting Parts (not shown - see page 4)	1

Tools Required: Phillips screwdriver (not provided), 3/16'' hex wrench (provided).
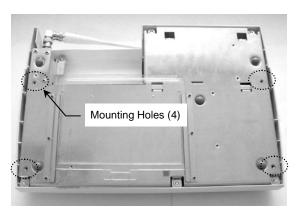
Installation Note

The Mounting Adapter is shipped from the factory equipped with a Channel Slide attached for mounting in a wall channel (page 2). Other mounting options (2" post, rail, or horizontal channel) are found on pages 3 – 7.
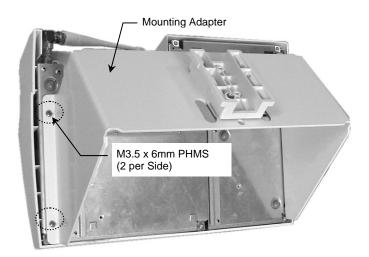
Installing the 7" Wall Channel

The 7'' Standard Wall Channel must be installed in accordance with separate installation guide *DU-WC-0002*.
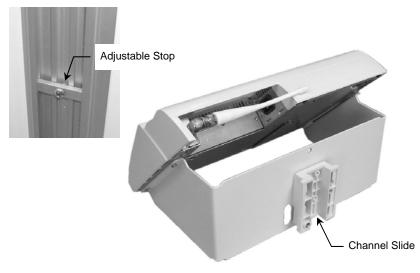
Mounting Base Station in Wall Channel

1. Locate four (4) mounting holes (below left) on rear of base station. Fasten Adapter to base station with four (4) M3.5 x 6mm PHMS as shown below right.
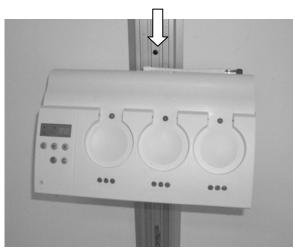
Mounting Holes (4)

Rear of Base Station

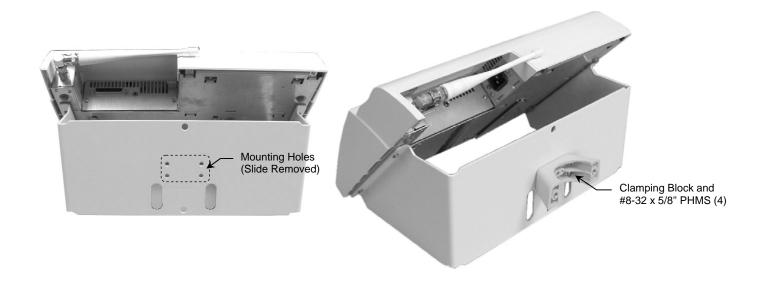Mounting Adapter

M3.5 x 6mm PHMS
(2 per Side)

2. Insert Adjustable Stop in the top of the Channel and slide to desired mounting position for base station (below left). Tiighten center screw.

3. Insert Channel Slide (below center) in top of Channel and guide the mounted assembly to rest against the Adjustable Stop. The Channel-mounted base station is shown below right.
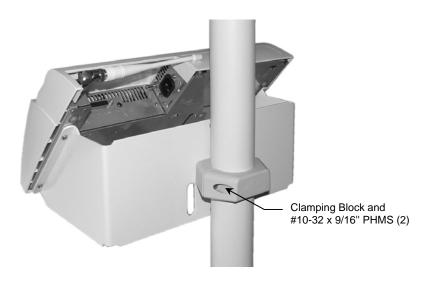
Adjustable Stop

Channel Slide

Mounting Base Station on 2" Post

1. Fasten Mountiing Adapter to base station as described in step 1, page 1.

2. Remove Channel Slide from Mounting Adapter by unscrewing four (4) pan head machine screws (below left). Retain these screws for attachment of Clamping Block to Mounting Adapter.

3. Fasten rear Clamping Block to Mounting Adapter with four (4) #8-32 x 5/8" PHMS removed in step 1 (below right).

Mounting Holes
(Slide Removed)

Clamping Block and
#8-32 x 5/8" PHMS (4)

4. Fasten Mounting Adapter to 2" post with front Clamping Block and two (2) #10-32 x 9/16" PHMS as shown.

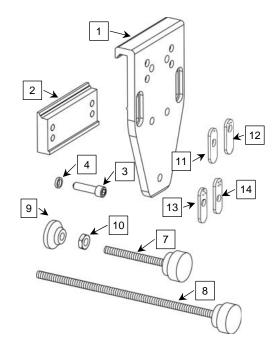Clamping Block and
#10-32 x 9/16" PHMS (2)

⚠️ **WARNING**: **The customer must verify the stability of the rail on which the GCX Euro Clamp will be mounted. The rail must be load-rated to carry the weight of the mounting system and all mounted instruments and accessories. The maximum load rating of the Rail Clamp is 33 lbs [14.97 kg].**
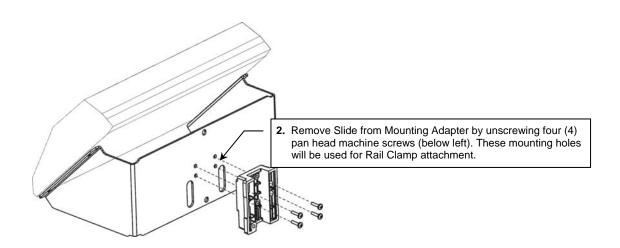
The following parts and hardware are included in this installation kit (hardware not shown):
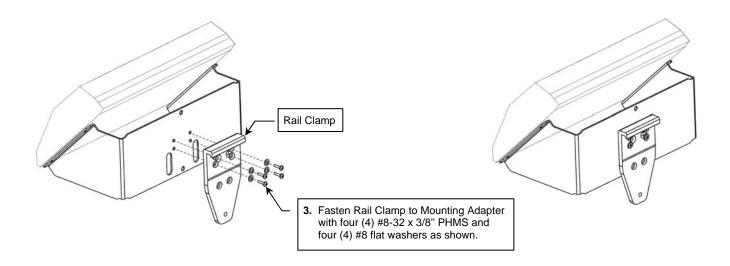
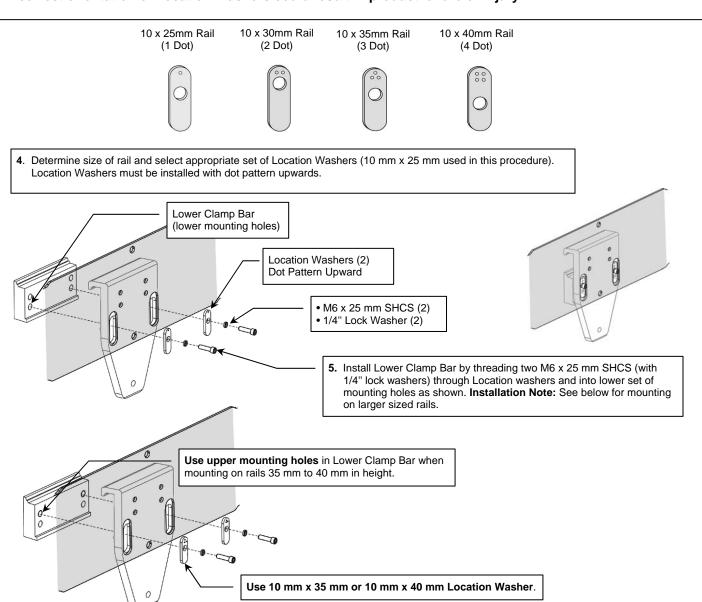| Item #	Description	Qty
1	Rail Clamp	1
2	Lower Clamp Bar	1
3	M6 x 25 mm Socket Head Cap Screw (SHCS)	2
4	Lock Washer, 1/4" Hi-collar	2
5	#8-32 x 3/8" Pan Head Machine Screw (PHMS)	4
6	#8 Flat Washers	4
7	2.65" Threaded Stud with Knob	1
8	7.5" Threaded Stud with Knob	1
9	Leveling Foot	1
10	M8 Hex Jam Nut	1
11	Location Washer, 10 mm x 25 mm (rail size)	2
12	Location Washer, 10 mm x 30 mm (rail size)	2
13	Location Washer, 10 mm x 35 mm (rail size)	2
14	Location Washer, 10 mm x 40 mm (rail size)	2
15	3/16" Hex Wrench (not shown)	1

Tools Required

- 3/16" hex wrench (provided)
- 1/2" [13 mm] wrench (not provided)
- Torque wrench (not provided)

1. Fasten Mountiing Adapter to base station as described in page 1, step 1.

2. Remove Slide from Mounting Adapter by unscrewing four (4) pan head machine screws (below left). These mounting holes will be used for Rail Clamp attachment.

Rail Clamp

3. Fasten Rail Clamp to Mounting Adapter with four (4) #8-32 x 3/8" PHMS and four (4) #8 flat washers as shown.
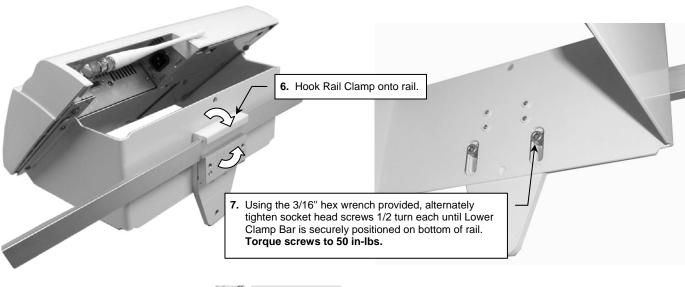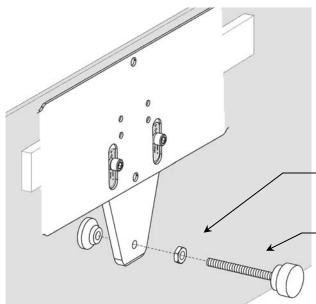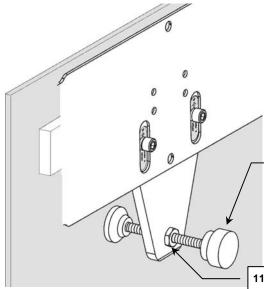
WARNING! Ensure that the Location Washers selected match the rail size before installing the Rail Clamp. The Location Washers must be installed with dot pattern upward. The use of incorrect Location Washers or incorrect orientation of Location Washers could result in product failure or injury.

10 x 25mm Rail (1 Dot)　　10 x 30mm Rail (2 Dot)　　10 x 35mm Rail (3 Dot)　　10 x 40mm Rail (4 Dot)

4. Determine size of rail and select appropriate set of Location Washers (10 mm x 25 mm used in this procedure). Location Washers must be installed with dot pattern upwards.

Lower Clamp Bar (lower mounting holes)

Location Washers (2) Dot Pattern Upward

• M6 x 25 mm SHCS (2)
• 1/4" Lock Washer (2)

5. Install Lower Clamp Bar by threading two M6 x 25 mm SHCS (with 1/4" lock washers) through Location washers and into lower set of mounting holes as shown. **Installation Note:** See below for mounting on larger sized rails.

Use upper mounting holes in Lower Clamp Bar when mounting on rails 35 mm to 40 mm in height.

Use 10 mm x 35 mm or 10 mm x 40 mm Location Washer.

6. Hook Rail Clamp onto rail.

7. Using the 3/16" hex wrench provided, alternately tighten socket head screws 1/2 turn each until Lower Clamp Bar is securely positioned on bottom of rail. **Torque screws to 50 in-lbs.**

8. Select required length of Leveling Stud (2.65" or 7.5"), depending on distance between Rail Clamp and adjacent vertical surface behind Clamp

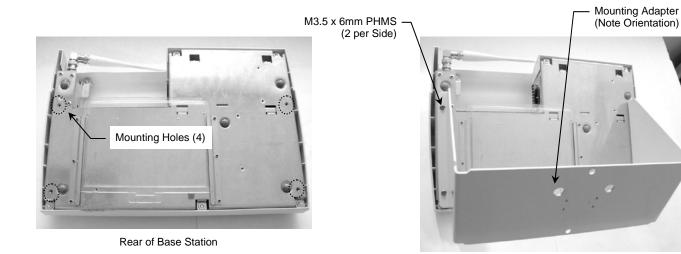**9.** Thread Leveling Stud through Jam Nut and Rail Clamp and into Support Foot as shown.

10. Turn Knob until Support Foot contacts adjacent vertical surface. Tighten until Rail Clamp is perpendicular to floor.

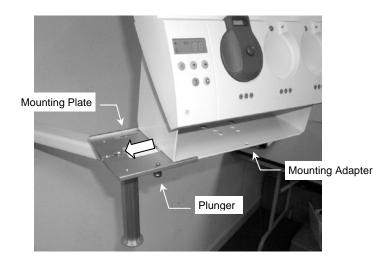**11.** Using a 1/2" [13 mm] wrench, tighten jam nut against Rail Clamp.

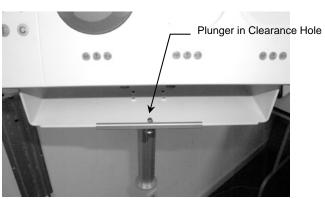## Mounting the Base Station on a Horizontal (Slide-on) Mounting Plate

Installation Note: For *horizontal plate mounting*, the Mounting Adapter is rotated 180º from the orientation required for post, vertical channel, and clamp mounting. See photo below right for correct orientation.

1. Remove Channel Slide from rear of Mounting Adapter by unscrewing four (4) pan head machine screws. Mounting Adapter shown below right with Channel Slide removed.

2. Align Mounting Adapter with the four (4) mounting holes on rear of the base station. Fasten Adapter to base station with four (4) M3.5 x 6mm PHMS.

M3.5 x 6mm PHMS (2 per Side)

Mounting Adapter (Note Orientation)

Mounting Holes (4)

Rear of Base Station

3. Slide the Adapter onto the Mounting Plate until the Adapter makes contact with the Plunger. Pull the Plunger downward and hold in position while sliding the Adapter over the Plunger. Release Plunger and continue sliding the Adapter until the Plunger snaps into the clearance hole.

4. Tighten Nylon Thumb Screws on bottom of Mounting Plate.

Mounting Plate

Mounting Adapter

Plunger

Plunger in Clearance Hole

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

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.

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.