

Installation Guide

VHRC Kit for Philips MX400/450/500/550/600/700/800 with Laptop Tray



The purpose of this guide is to:

- 1. Describe procedure for attaching VHRC Column to Base (page 2).*
- 2. Describe procedure for attaching 25lbs. Ccounterweight Kit to Base (page 3).*
- 3. Describe procedure for attaching 10lbs. Ccounterweight Kit to Base (page 3).*
- 4. Describe procedure for assembling and installing Satellite/FMs Flush Mount (page 4).*
- 5. Describe procedure for assembling and installing Laptop Arm (page 5).*
- 6. Describe procedure for assembling and installing Monitor Arm (page 6).*
- 7. Describe VHRC Adjustments and Warnings (page 7).*

Installation Note: This Philips MX800 Mounting Kit includes individual kits with separate installation guides. Procedures are included in this guide for kits which do not have (or refer to) separate installation guides.

Installing VHRC Column to Base

Parts Reference

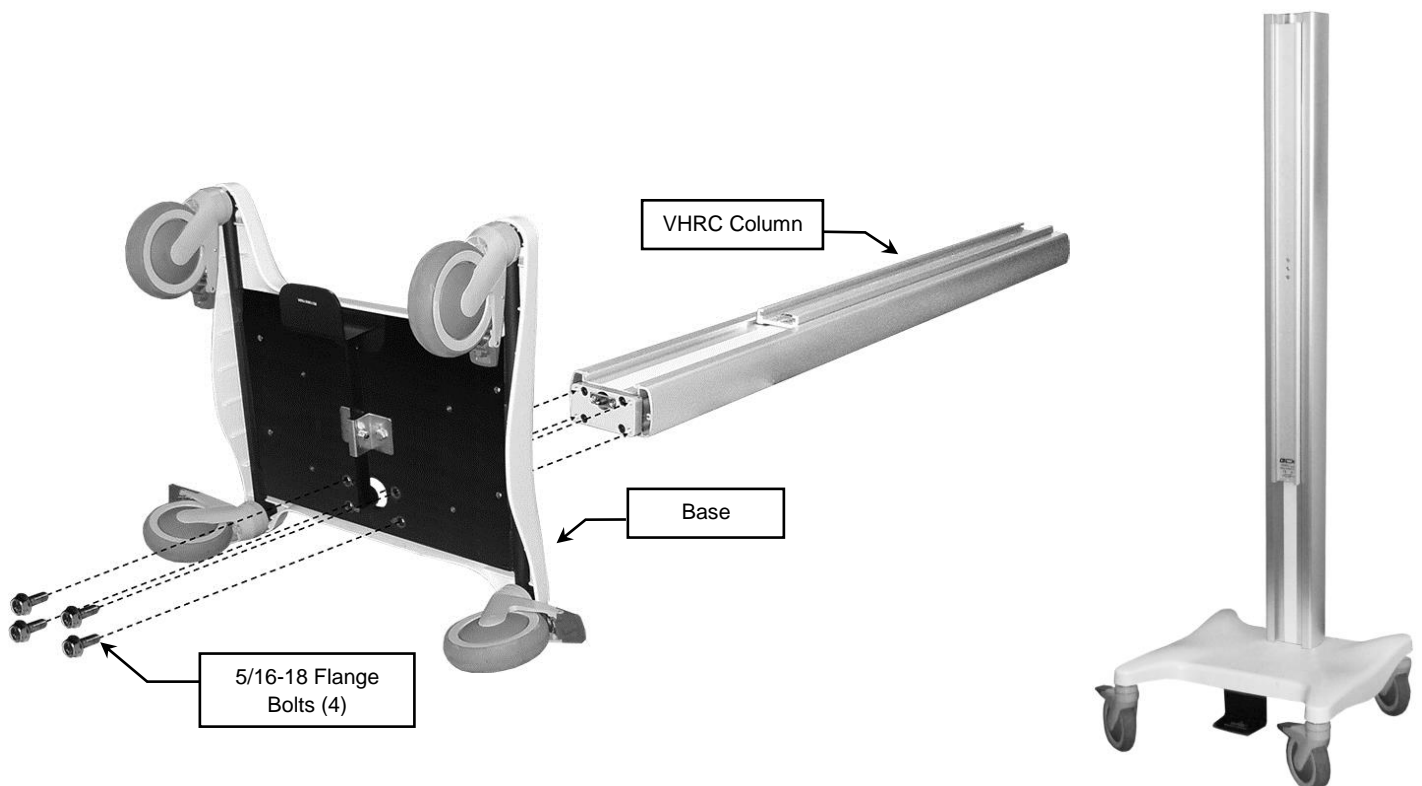
The following parts and hardware will be used in this installation (see photo for parts, hardware not shown):

Item #	Description	Qty
1	VHRC Column Assembly	1
2	Base Assembly	1
3	5/16-18 Flange Bolts	4
4	1/2" Wrench	1

Tools Required for This Task: 1/2" Wrench (provided).



1. Align the (4) threaded mounting holes on the column with the (4) threaded mounting on the base. Channel on column should be oriented with foot pedal (on base) as shown.
2. Insert VHRC Column into top of Base, then fasten the column using the 5/16-18 flange bolts and 1/2" Wrench supplied with this kit.



Installing Counterweight Kits to VHRC Base

Parts Reference (25lbs. Counterweight Kit)

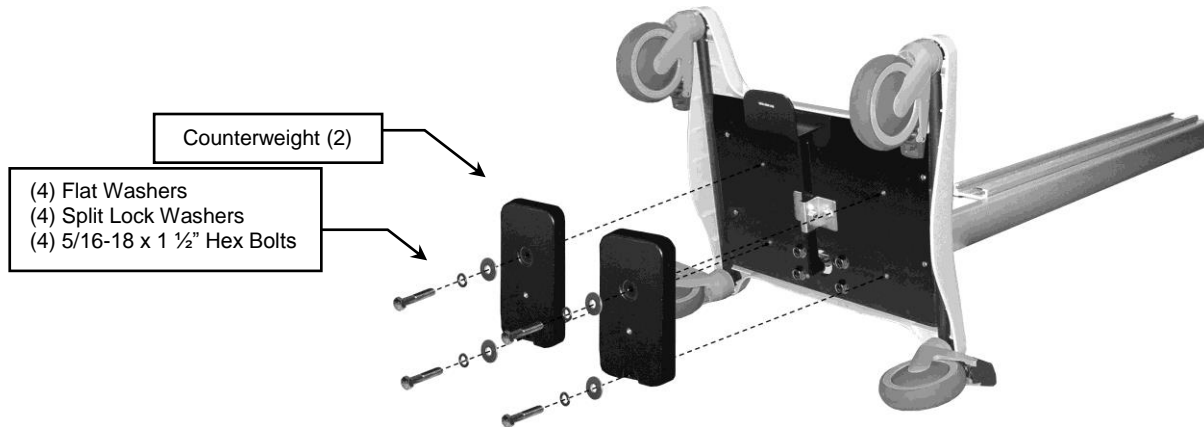
The following parts and hardware will be used in this installation (see photo for parts, hardware not shown):

Item #	Description	Qty
1	Counterweights	2
2	5/16-18 x 1 1/2" Hex Head Bolt	4
3	5/16 Split Lock Washer	4
4	5/16 Flat Washer	4



Tools Required for This Task: 1/2" Wrench (provided with column assembly).

- Using a 1/2" socket wrench, install each counterweight using (2) 5/16-18 x 1 1/2" Hex Bolts, (2) split lock washers and (2) flat washers as shown. Tighten bolts so each counterweight is properly secured to VHRC Base assembly.



Parts Reference (10lbs. Counterweight Kit)

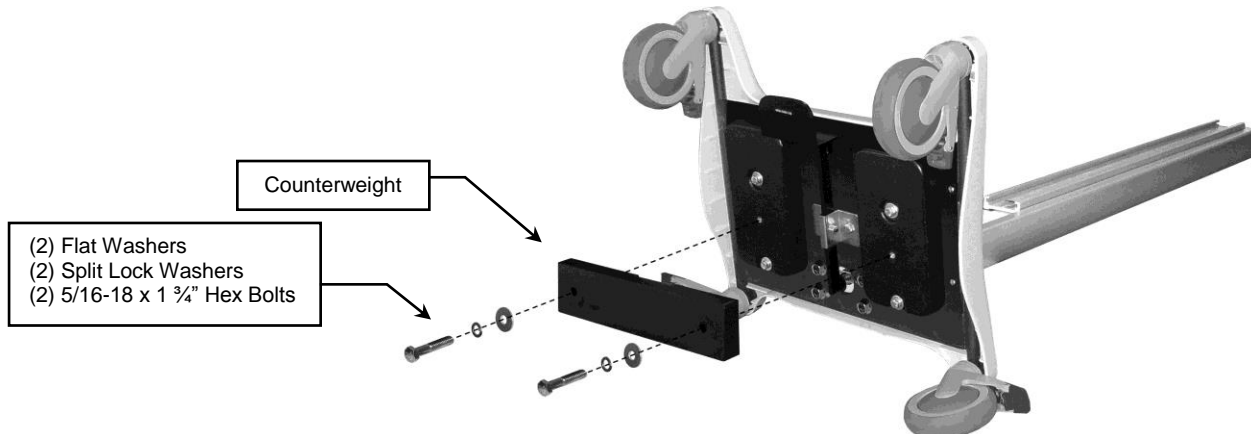
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Counterweight	1
2	5/16-18 x 1 3/4" Hex Head Bolt	2
3	5/16 Split Lock Washer	2
4	5/16 Flat Washer	2



Tools Required for This Task: 1/2" Wrench (provided with column assembly).

- Using a 1/2" Socket Wrench, secure 10 lbs. Counterweight to the 25 lbs. Counterweights with (2) 5/16-18 x 1 3/4" Hex Bolts, (2) Split Lock Washers and (2) Flat Washers. Tighten bolts so counterweight is properly secured.

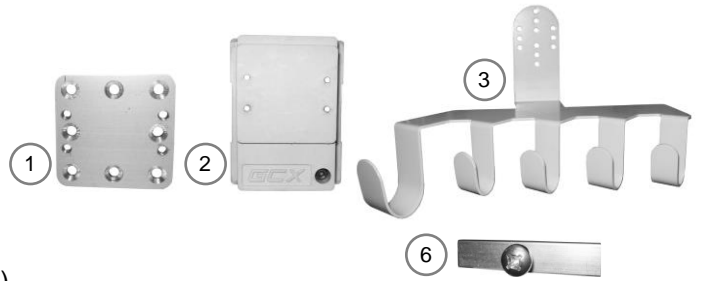


Satellite Rack/FMS Flush Channel Mount Assembly and Installation

Parts Reference

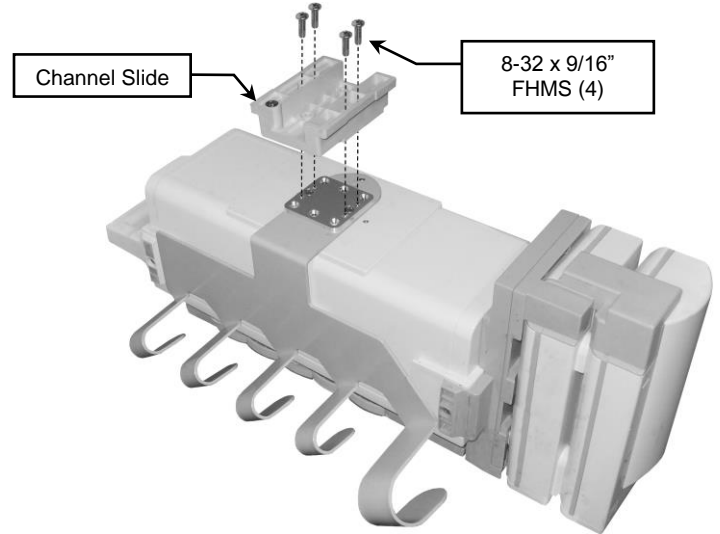
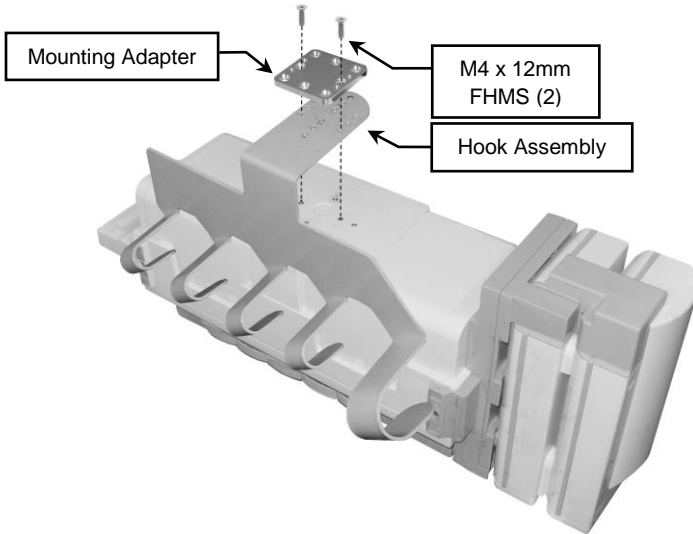
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	Mounting Adapter	1
2	Slide	2
3	Hook Assembly	2
4	M4 x 12mm Flat Head Machine Screw (FHMS)	2
5	8-32 x 9/16" Pan Head Machine Screw (PHMS)	4
6	Adjustable Stop	1

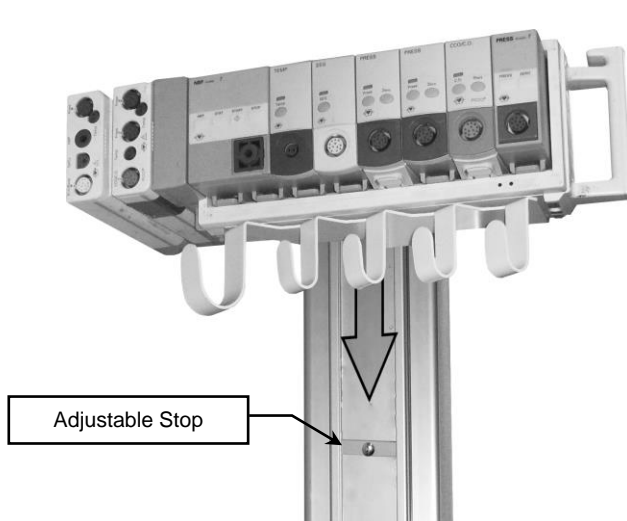


Tools Required for This Task: Phillips Screwdriver (not provided).

- Using a Phillips screwdriver, attach Hook Assembly and Mounting Adapter to corresponding threaded mounting holes on the Satellite Rack/FMS with (2) M4 x 12mm FHMS (below left). **Installation Note:** The (4) threaded mounting holes in Mounting Adapter must be oriented as shown for attachment of Channel Slide (step 2).
- Attach Channel Slide to Mounting Adapter with (4) 8-32 x 9/16" PHMS (below right).



- Install Adjustable Stop in top of Channel, slide to desired mounting position and tighten center screw.
- Guide the Channel Slide into top of the Channel and position against the Adjustable Stop.



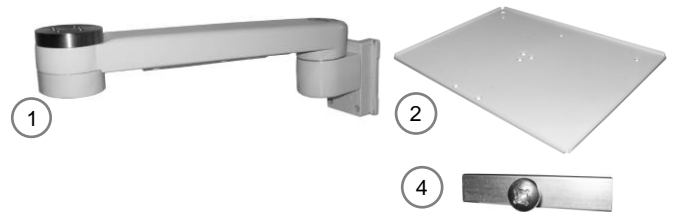
Warning
Max Height for the FMS
is 42" from the floor.

Laptop Arm Assembly and Installation

Parts Reference

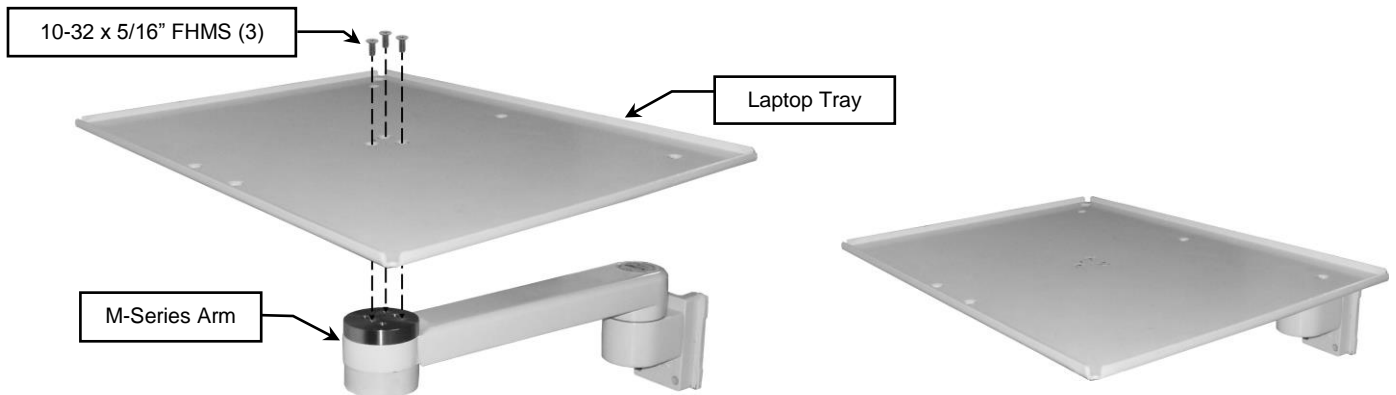
The following parts and hardware will be used in this installation (hardware not shown):

Item #	Description	Qty
1	M-Series Pivot Arm	1
2	Laptop Tray	1
3	10-32 x 5/16" Flat Head Machine Screw (FHMS)	3
4	Adjustable Stop	1
5	1/8" Hex Wrench	1

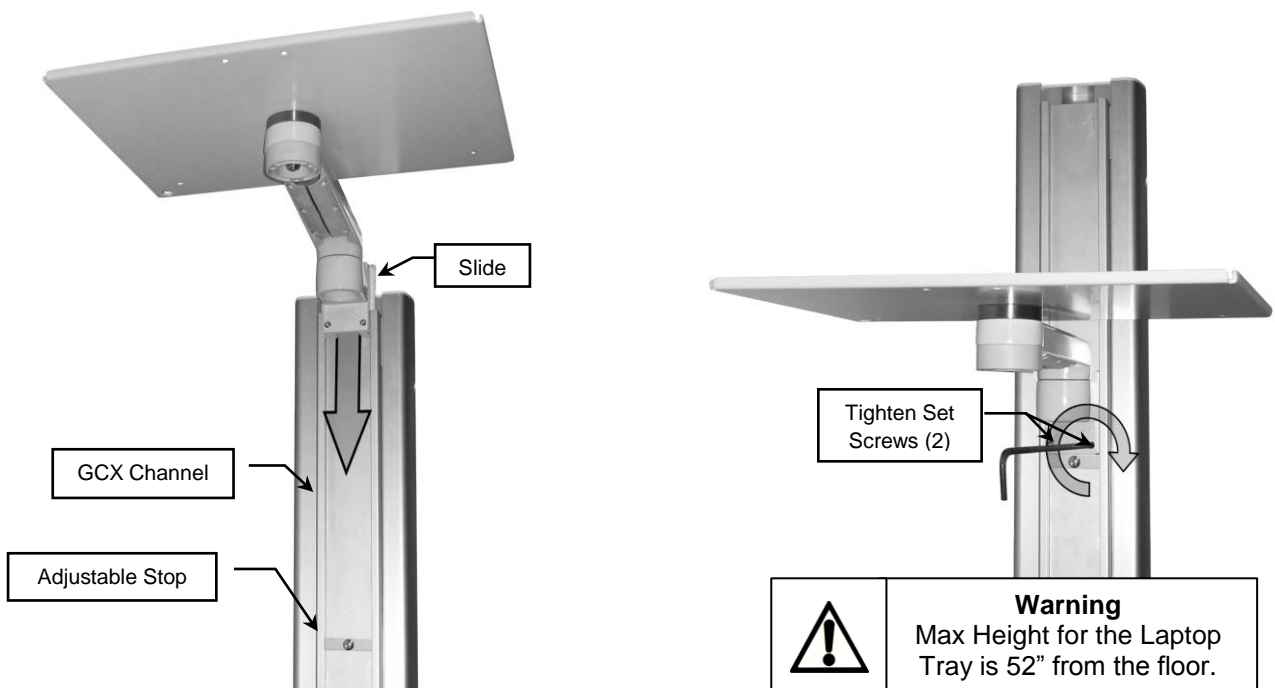


Tools Required for This Task: Phillips Screwdriver (not provided), 1/8" Hex Wrench (provided)

- Using a Phillips Screwdriver, attach Laptop Tray to M-Series Arm with (3) 10-32 x 5/16" FHMS.



- Install Adjustable Stop in top of Channel, slide to desired mounting position and tighten center screw.
- Guide the Slide (rear of Arm) into top of the Channel and position above Adjustable Stop. Tighten the (2) Set Screws with 1/8" hex wrench (provided) to secure.



Warning
Max Height for the Laptop Tray is 52" from the floor.

Monitor Arm Assembly and Installation

Parts Reference

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

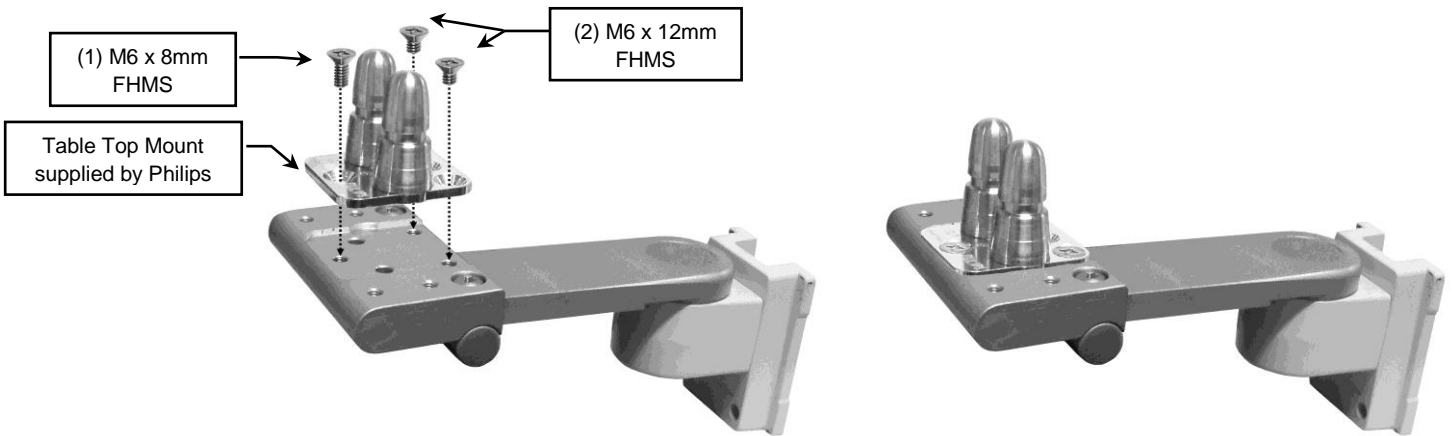
Installation Note: Table Top Mount supplied by Philips.

Item #	Description	Qty
1	Flush Mount Pivot Arm	1
2	Table Top Mount (supplied by Philips)	1
3	M6 x 8mm Flat Head Machine Screw (FHMS)	1
4	M6 x 12mm Flat Head Machine Screw (FHMS)	2
5	Adjustable Stop	1
6	1/8" Hex Wrench	1

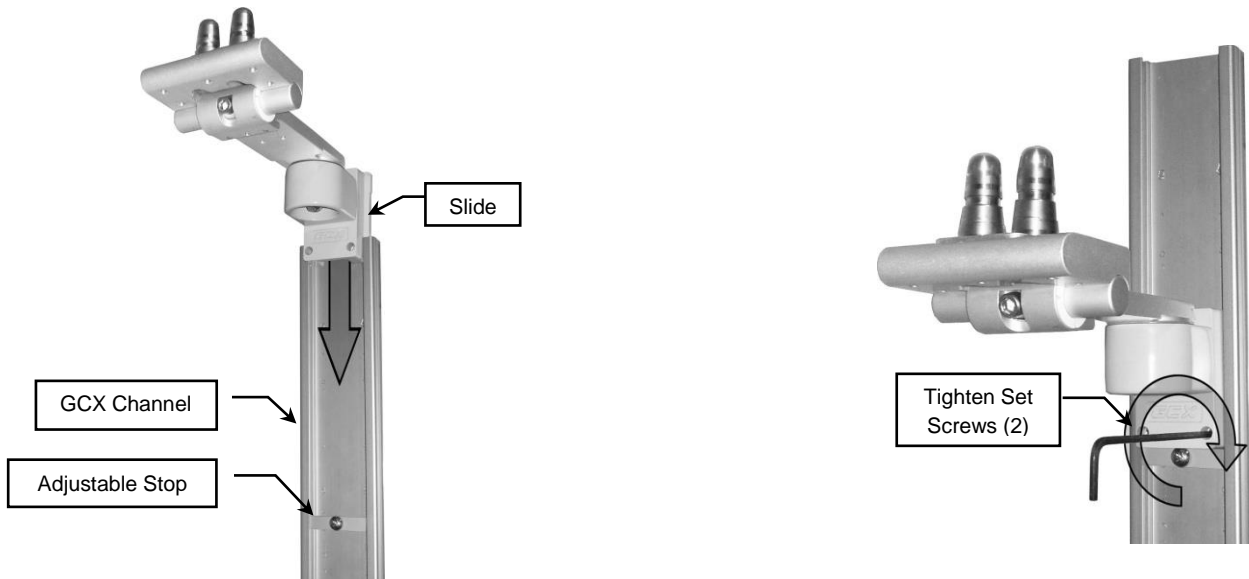


Tools Required for This Task: Phillips Screwdriver, 1/8" Hex Wrench (provided).

- Using a Phillips Screwdriver, attach Table Top Mount to Flush Mount Arm with (1) M6 x 12mm FHMS and (2) M6 x 8mm FHMS as shown below.



- Install Adjustable Stop in top of Channel, slide to desired mounting position and tighten center screw.
- Guide the Slide (rear of Arm) into top of the Channel and position above Adjustable Stop. Tighten the (2) Set Screws with 1/8" hex wrench (provided) to secure.



VHRC Adjustments

Casters

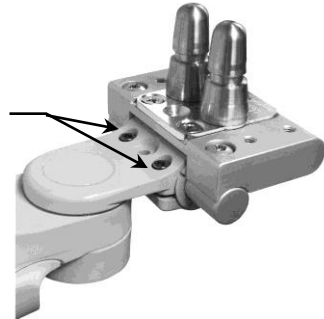
The VHRC base features locking casters (wheels) that can be locked to prevent cart from rolling easily. Each locking caster has a lock lever which is depressed to activate, and can be deactivated by lifting back up.



Tilt and Tilt Tension

1. To tilt the instrument, grasp the top and bottom of the instrument and tilt it to the desired angle.
2. To adjust tilt tension, equally tighten or loosen the two (2) tilt tension screws using the supplied 5/32" hex wrench.

Tilt Tension
Screws (2)



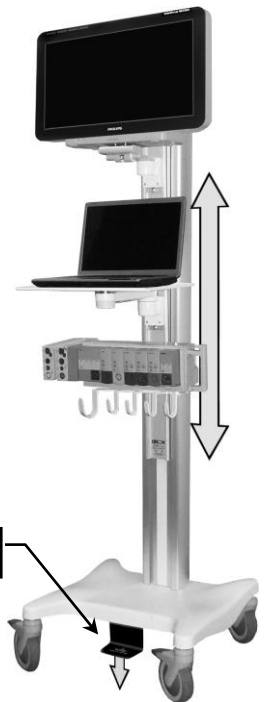
Mounting the MX400/450/500/550 Monitor (Fixed Mount Adapter)

Mount the monitor in accordance with separate Installation Guide DU-PH-0073-15 provided with the Mounting Adapter, ordered separately.

Height Adjustment

To move the channel up/down depress foot pedal and hold down, move channel to desired position, release foot pedal to lock channel in place.

Foot Pedal



Warnings:

Do not position the VHRC or mounted equipment above a patient. The VHRC has a wide range of motion with both the height adjustable channel feature and overall mobility of the cart design. Please consider carefully the mounted equipment and proximity of cart to other equipment, hospital personnel and the patient.

When moving the height adjustable VHRC channel always hold the mount(s) or handle(s) with both hands, if the column is counterbalanced properly the channel should not move suddenly.

When moving the VHRC cart fold any extended mounts with equipment inward to prevent collisions with other equipment, walls, doorways, hospital personnel and the patient.

Periodically check the VHRC height adjustable channel for proper function and counterbalance by depressing the foot pedal, moving the channel up/down, then release the foot pedal so channel locks in position.

Periodically inspect VHRC components and fasteners for looseness. Tighten as required for optimal operation and safety.