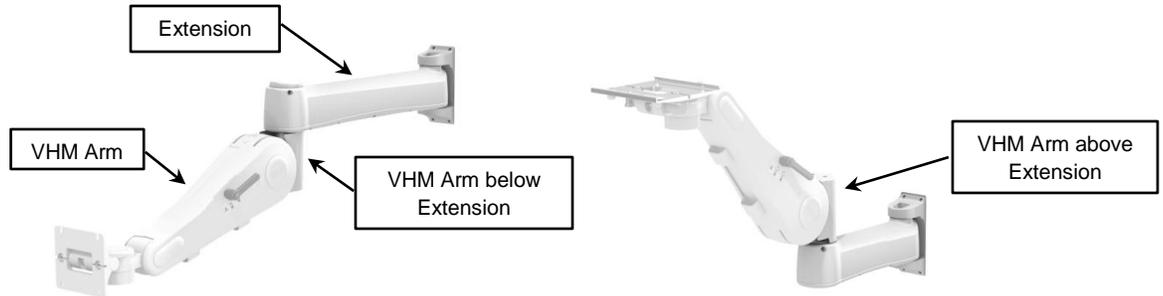


Installation & Operation Manual for VHM™ Series Rear Extension Upgrade

WARNING: REFER TO QUALIFIED PERSONNEL – IMPROPER INSTALLATION CAN RESULT IN POTENTIAL INJURY.



*The purpose of this manual is to describe procedure retrofitting a new generation VHM Extension:
To a VHM Arm with a previous generation Extension.*

To a VHM Arm without an Extension

Read this entire document before proceeding!

The VHM Arm can be mounted above or below the front pivot point of the Extension. Changing the orientation may be useful to achieve a better viewing angle, provide easier access, or to clear existing mounts and equipment. Refer to document: DU-WS-0005-7X. This document can be obtained from our website: www.gcx.com/Support, or by contacting GCX Technical Support at 800. 228.2555 or +1 707.773.1100. If changing the orientation is required, do so before proceeding with installation

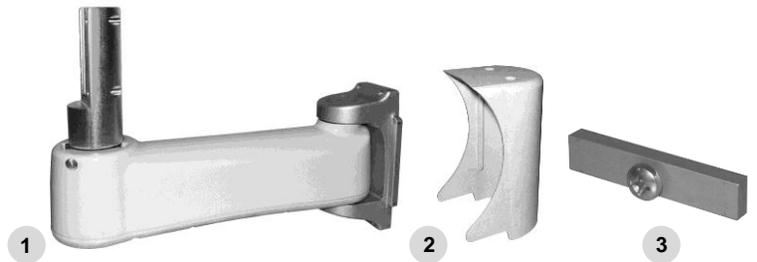
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1.0 Parts Reference

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

Item #	Description	Qty
1	VHM Extension	1
2	Pivot Cover	1
3	Adjustable Stop	1
4	6-32 x 1/4" Flat Head Machine Screw (FHMS)	2
5	10-32 x 3/4" SHCS	4
6	1/8" Hex Wrench	1
7	5/32" Hex Wrench	1
8	1/2" Angled Socket Wrench	1



2.0 Tools Required:

- 1/8" Hex Wrench (provided)
- 5/32" Hex Wrench (provided)
- 1/2" Angled Socket Wrench (provided)
- # 2 Phillips Screwdriver (not provided)
- Torque Wrench with 5/32" and 1/8" hex bit (not provided)
- 1/2" Offset Box Wrench [to counterbalance older VHM Arms] (not provided).



3.0 Installation, Operation, and Maintenance Warnings

Warning- REFER TO QUALIFIED PERSONNEL – IMPROPER INSTALLATION CAN RESULT IN POTENTIAL

Warning- The order/sequence of fasteners as shown in this Installation Guide is critical to insure correct operation and safety.

Warning- VHM Extension must be mounted with the Cable Cover facing down (page 4).

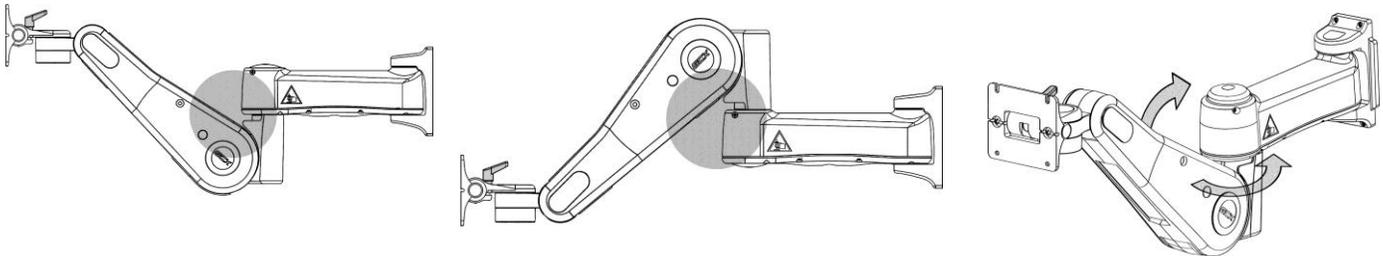
Warning- Do not position the VHM Arm or mounted instrument above a patient. Note that the VHM Arm has a wide range of motion both up/down and side to side. Carefully consider the instrument being mounted and the proximity of the mounting assembly to other equipment, hospital personnel, and the patient. GCX recommends that the hospital's risk management personnel verify that the application is appropriate prior to installation and use of the VHM Arm.



Warning- The combination of VHM and Extension presents a potential pinch hazard at all points/positions where the VHM arm and Extension can come into contact.

Warning- Note that the VHM Arm has a wide range of motion both up/down and side to side. Please consider potential Pinch Points that may cause personal injury.

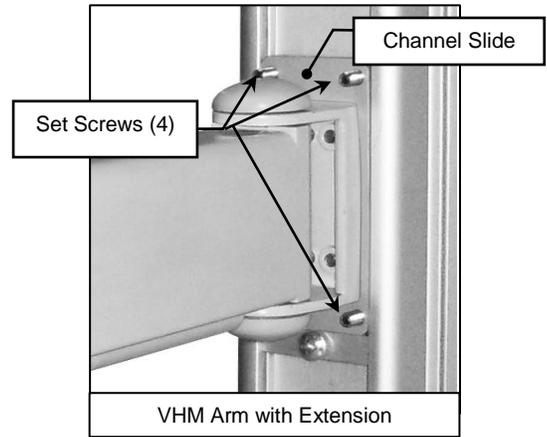
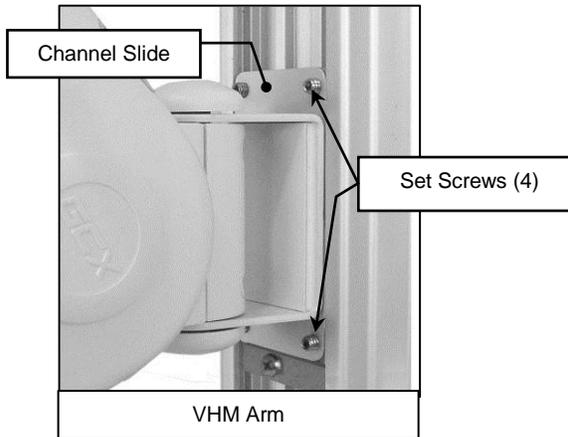
Warning- Route cables away from potential pinch points. A service loop of cable may be needed to accommodate all motion and to prevent cable binding, connector damage, or Cable Guide damage.



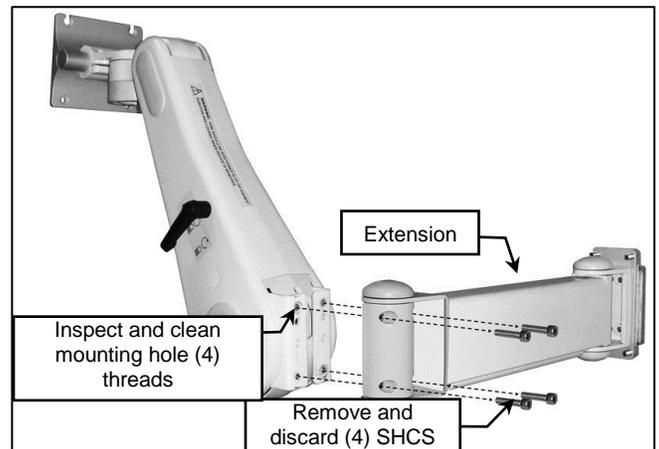
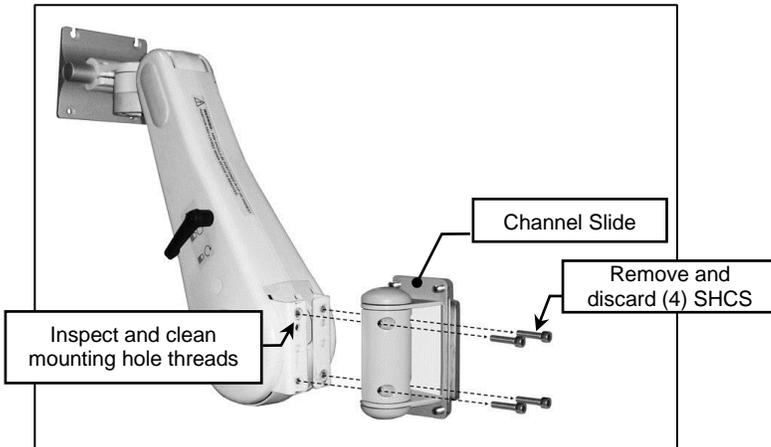
4.0 VHM Extension Replacement: VHM Arm and VHM Arm with Existing Extension

Installation Note: Position VHM arm at its uppermost/highest position and disconnect/remove all mounted equipment per manufacturer's instructions. The VHM Arm Channel Slide must be rotated/pivoted 90° to the left or right prior to removing from channel. This will allow removal of the (4) Socket Head Cap Screws shown in Step 4.2.

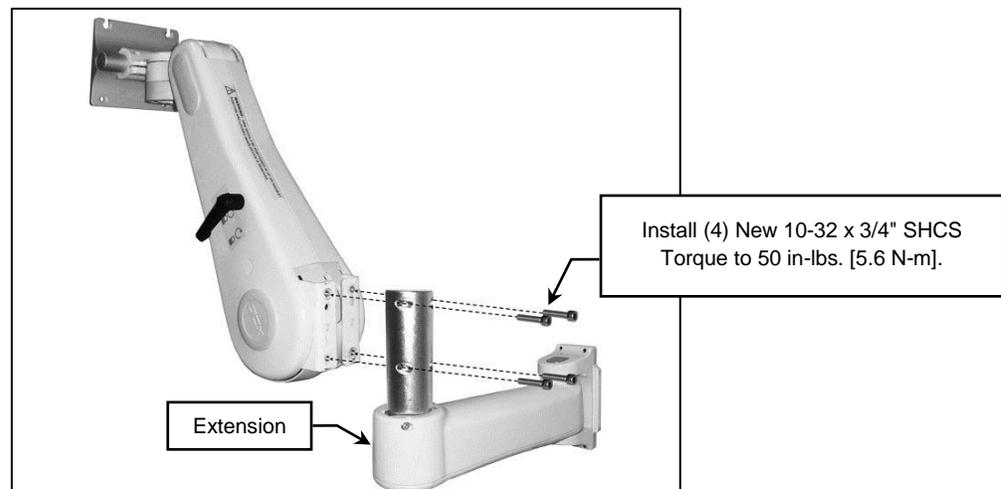
- 4.1 Using a 1/8" hex wrench, loosen the (4) Channel Slide Set Screws in the VHM Arm or VHM Arm with Extension. Remove the VHM Arm assembly from the channel and place on a padded work surface.



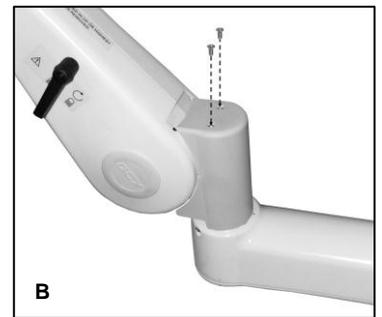
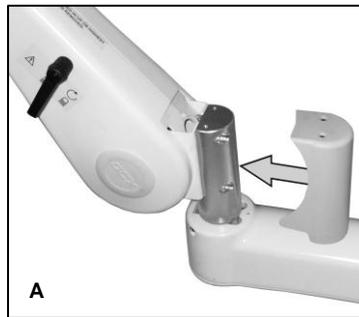
- 4.2 Using a 5/32" hex wrench, remove and discard the (4) SHCS that attach the Channel Slide or Extension to the VHM Arm. Inspect the (4) mounting holes in the rear of VHM body. All four (4) mounting hole threads should be cleaned and clear of debris prior to installing new Extension. Do not re-use the (4) SHCS.



- 4.3 Using a 5/32" hex wrench, attach the Extension to VHM arm with (4) new 10-32 x 3/4" SHCS. Using a torque wrench with a 5/32" hex bit, incrementally and alternately tighten each screw to 50 in-lbs [5.6 N-m].



4.4 To install Pivot Cover when VHM is mounted above the Extension, position Pivot Cover over the Pivot Pin (A). Using a #2 Phillips screwdriver, secure Pivot Cover with (2) 6-32 x 1/4" FHMS (B).



To install Pivot Cover when VHM is mounted below the Extension, place Pivot Cover end into the recessed area under the arm and rotate towards the Pivot Pin (C). Using a #2 Phillips screwdriver, secure Pivot Cover with (2) 6-32 x 1/4" FHMS (D).

