GCX INSTRUMENT MOUNTING SYSTEMS

## GCX Mounting Assembly Installation Guide

Surface Mount 19" Channel Kit

The purpose of this guide is to describe attachment of surface mount components to wall.

Parts Reference

The parts list below includes parts and hardware that will be used in this installation procedure (see photos for parts; hardware not shown).

Item #	Description	Qty
1	Channel, 19"	1
2	Spanner Rail, 26"	2
3	1/4-20 Hex Nut, Serrated Flange	4
4	1/4-20 x 5/8" Flat Head Machine Screw (FHMS)	4
5	1/4-20 x 3" Pan Head Machine Screw (PHMS)	4
6	1/4-20 x 2" Toggle Wing	4
7	#10 x 2" Pan Head Sheet Metal Screw (PHSMS)	4
8	Spanner Rail Cover	4

Channel

Spanner Rails (2)

Spanner Rail Covers (4)
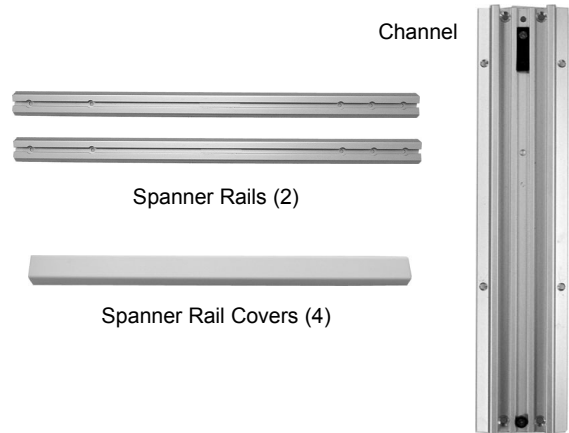
Tools Required: Drill, 9/64" and 3/4" drill bits, level, Phillips screwdriver, and hacksaw. 1/2" and 1/4" drill bits may be required for non-standard stud center applications (see page 3).

Installation Notes – Read Before Installing Mount:

1. It shall be the responsibility of the hospital, its consultants and/or contractors to determine that the wall is adequate for safely mounting instrumentation. This includes the selection of appropriate fasteners and the proper installation of the same.

2. Instructions and illustrations covering the specific instrument-mounting application must be reviewed prior to installation of the wall mount.

3. Access to instrument controls should be considered before mounting the Surface Mount. Allow clearance for objects such as over-bed lighting, privacy curtains, adjacent walls or columns, door swing arcs, etc. Power and signal outlets should also be considered when selecting a mounting location. Avoid oxygen, vacuum and air outlets and space for attendant flow meters and regulators. Do not place any portion of the mounted instrument over a patient bed.

4. The maximum load rating for this mount is 40 lbs. [18 Kg].

DISCLAIMER: Although considerable effort has been made to ensure the safety of this installation and/or guidelines, the installation itself is beyond the control of GCX Corporation. Accordingly, GCX Corporation will not be responsible for the failure of any such installation.

Assemble the Surface Mount

1. Slide two (2) serrrated-flange hex nuts inside each of the two (2) Spanner Rails. These nuts will be used for attachment of vertical Channel.

Serrated-flange Hex Nuts
(2 per Spanner Rail)
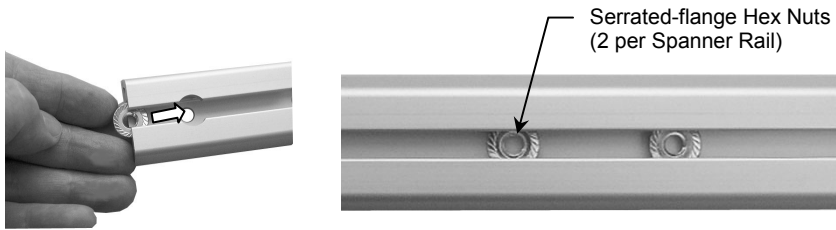
2. Loosely fasten Channel to hex nuts in each Spanner Rail with two (2) 1/4-20 x 5/8" FHMS per Rail. The Channel-to-Spanner Rail assembly must remain loose to allow for leveling of Channel (page 3, step 4).

1/4-20 x 5/8" FHMS
(2 per Spanner Rail)
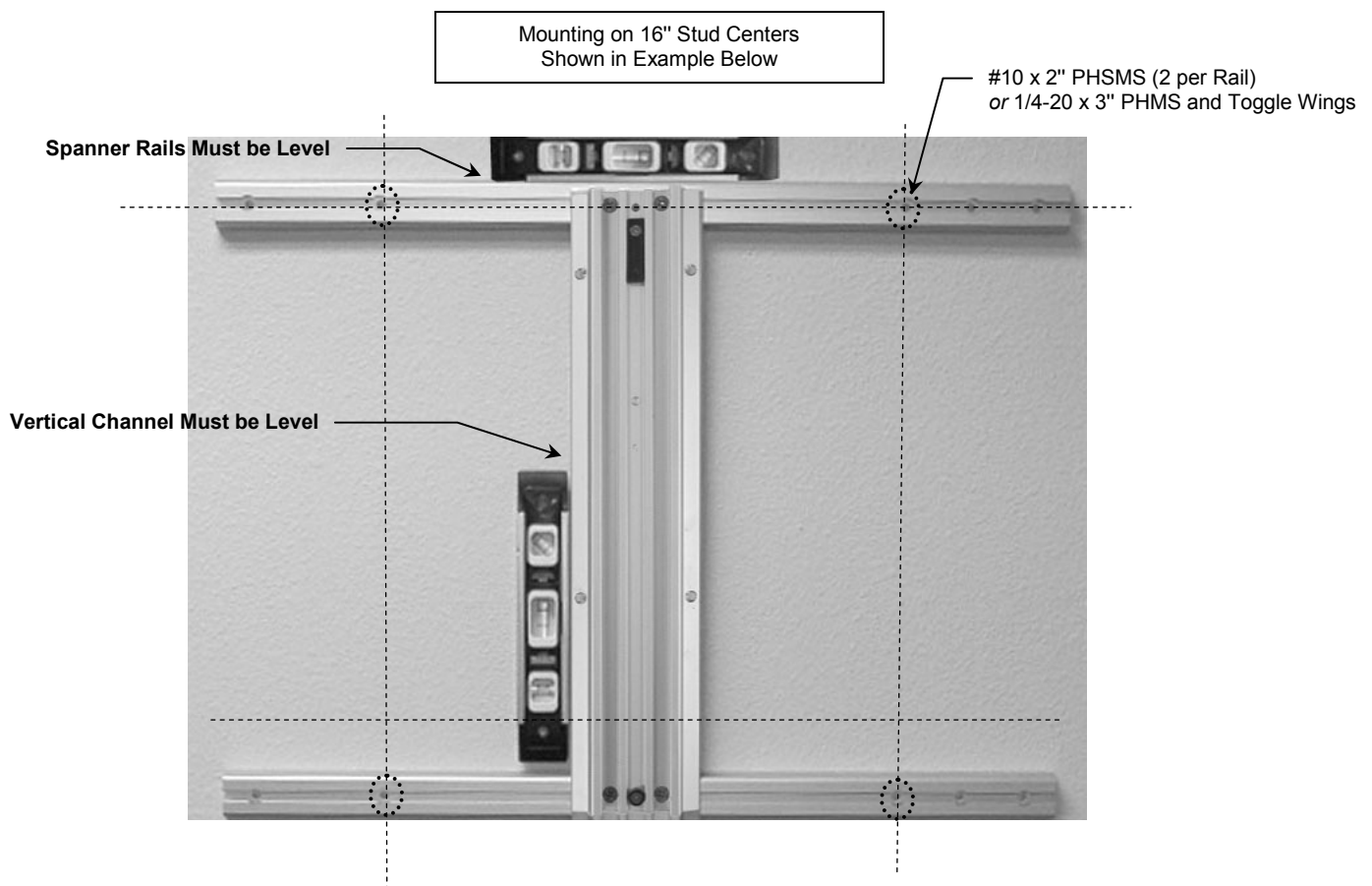
Spanner Rails (2)

Channel
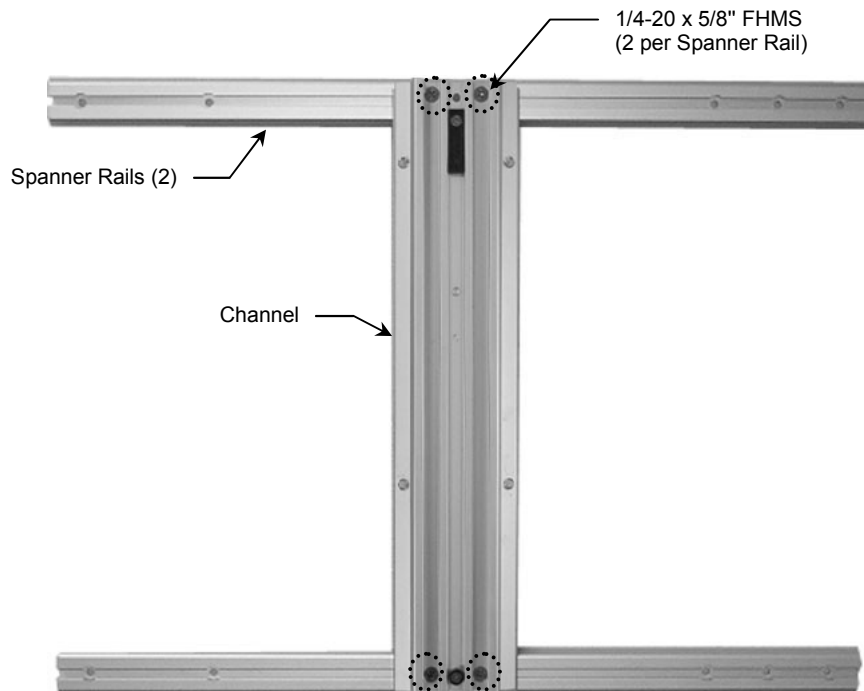
Attaching Surface Mount to Wood or Sheet Metal Studs

CAUTION: The Surface Mount must be anchored into studs. This Mount has been tested using sheet metal screws in 24 ga. metal studs. If mounting in metal studs lighter than 24 ga., toggle wings (provided) must be used.

Installation Note: The Spanner Rails provide mounting holes for attachment to 16", 18", and 24" stud centers. This installation procedure shows a typical attachment to 16" stud centers. For non-standard stud centers it will be necessary to drill a 1/2" counterbore and 1/4" thru-hole (existing hole dimensions) to mount the Spanner Rails (see explanation and photo at bottom of page).

1. Locate and mark centerlines of studs and locations of mounting holes for Spanner Rails. Ensure all mounting holes are marked along level and plumb lines.

2. Using a 9/64" bit, drill holes into studs (drill through front surface of metal studs).
   Toggle Wings: Drill holes through front surface of metal stud with 3/4" bit.

3. **Ensure Spanner Rails are level** and fasten Rails to studs with two (2) #10 x 2" PHSMS per Rail.
   Toggle Wings: Insert 1/4-20 x 3" PHMS through holes in Rails and thread toggle wings onto screws. Push toggle wings through holes in studs. Tighten screws.

4. **Ensure Channel is level** and tighten all Channel-to-Rail assembly screws (2 per Rail).

Mounting on 16" Stud Centers
Shown in Example Below

#10 x 2" PHSMS (2 per Rail)
or 1/4-20 x 3" PHMS and Toggle Wings

Spanner Rails Must be Level

Vertical Channel Must be Level

Non-Standard Stud Centers

1. Use one (1) existing hole per Spanner Rail.

2. Drill 1/2" counterbore and 1/4" thru-hole to provide additional mounting hole per Rail.

1/2" Counterbore

1/4" Thru-hole
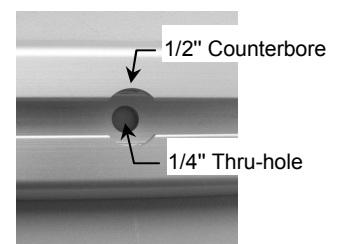
Attaching Spanner Rail Covers

Plastic Rail Covers are provided for covering exposed sections of the Spanner Rail. Use a hacksaw to cut sections of Rail Covers.

1. Measure exposed section of Spanner Rail. Using a hacksaw, cut length of Rail Cover to fit exposed section of Rail.

2. Press Cover onto Rail until it snaps into place.