

ramé-hart Goniometer

Gear Rack Extension Assembly June 1999

1. Remove the Camera Mount from the Goniometer Rail while disengaging the Gear Rack from the 3-Axis Stage.
2. Remove the 3-Axis Stage from the Goniometer Rail being careful not to bend the Gear Rack.
3. Turn upside down on a working table and remove the set screw that is currently holding the Gear Rack in place. After loosening, slide the Gear Rack out of it's hole. It's not necessary to completely remove the set screw.
4. Attach the new Gear Rack Extension to the old Gear Rack using the set screw provided, aligning the teeth in the same direction.
5. Slide the Gear Rack Extension end into the hole in the 3-Axis stage with the teeth pointing downward (they will face upward when mounted on the Rail) and re-tighten the set screw. It's very important that the teeth are horizontal and not tilted to any degree, otherwise the Gear Rack will not mount properly in the Camera Mount Base.
6. Slide the 3-Axis Stage back onto the Goniometer Rail.
7. Slide the Camera Mount onto the Goniometer Rail until the Gear Rack engages into the hole in the base of the Camera Mount.