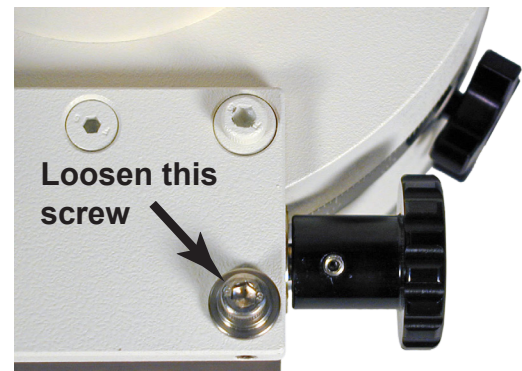
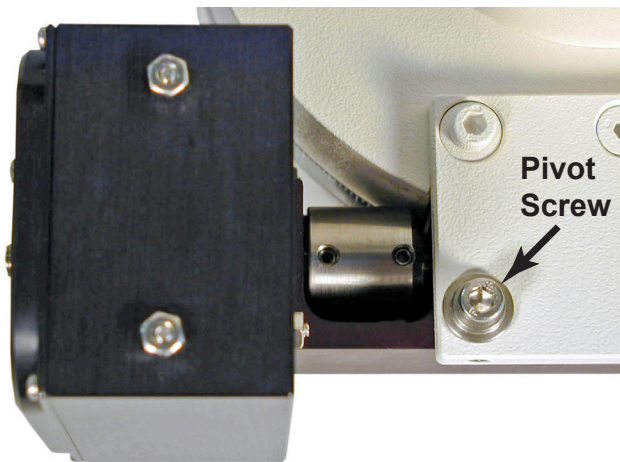
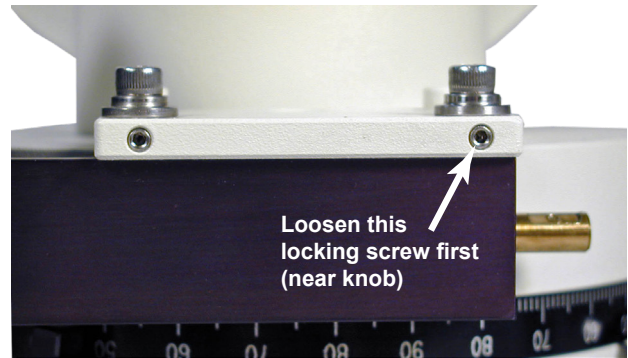


# 900QMD BACKLASH REMOVAL INSTRUCTIONS - BOTH AXES

- Do Not touch the painted screws as they are not part of the adjustment process.
- Do Not loosen the pivot screw show in the photo below.
- First you'll need to loosen the right locking screw shown in the photo at the right. It is on the knob side.
- Next loosen the stainless steel screw show in the photo below right.
- Using a block of wood and a hammer, lightly tap the worm gear housing near the knob - Not the Motor Bracket - inward toward the axis housing. Tap the housing as far from the pivot screw as possible, but Do Not tap the drive test knob itself.



- Re-tighten the screw and test for backlash. Do Not turn the drive test knob without loosening the right collar screw shown in the photo at the bottom of the page. *Doing so will damage or destroy the stepper motor!*
- Test through an entire worm cycle every 60 degrees of rotation or so. You want a gear mesh that minimizes backlash while allowing the worm to turn through any minute high spot that the worm wheel might have.
- Multiple tries might be needed to tweak it just right.
- Do Not over-tighten the gear mesh or the motor will not be able to turn the worm.
- If you need to loosen the gear mesh, lightly tap the gear housing in the opposite way as before.

- Hammer notwithstanding - this is precision work. The difference between too tight and too loose (having backlash) is a matter of one or two thousandths on an inch!

