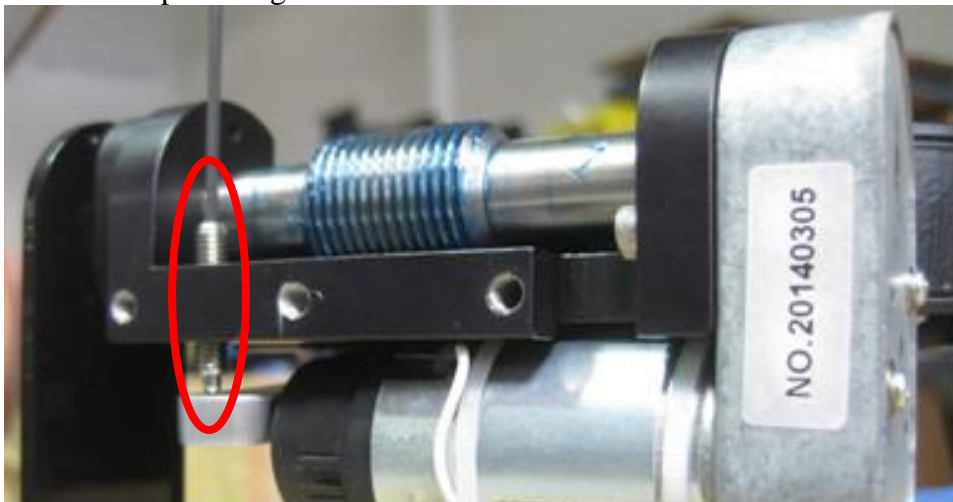


## Backlash adjustment on IRF90 Rotating Focuser (Units shipped in 2015 and later)

1. Remove any imaging equipment from the IRF90.
2. Move the focuser out until it is about 1" from the "fully racked in" position.
3. Unscrew the three screws that hold the worm cover plate in place, and remove the plate.



4. Locate the worm tension adjustment screw. This screw has a spring-loaded tip at the end that pushes against a bracket.



The force applied by the tip of this screw tilts the worm against the large rotator gear. Tightening this screw will increase the force, and loosening this screw will

decrease the force.

**NOTE:** If this screw is tightened to the point that the spring-loaded tip is fully compressed, the rotator is likely to bind up.

5. Adjust the tension on this screw until backlash has been removed.
6. Try moving the rotator through its full range of motion and confirm that it moves smoothly and does not bind up in any position. If the rotator is having trouble moving, loosen the tension screw a bit and try again.
7. Once the tension has been properly adjusted, reinstall the worm cover plate with the three button head screws.