Disassembling and Assembling the Rectilux Hard Core DNA



You have top glass in lens holder?

Ian

Yes. Getting glass in and out seems easy enough.



John

ok remove that part and lets work on mechanism

1 check inside main body for burrs

2 check inside steel ring for burrs

if burrs found grind them off

report

Ian





Burs being extra little pieces of aluminum?



John

Yep then disassemble the mechanism.

Ian

Seems smooth to me.



John

On the inside of the steel ring and inside of the main body?



In the following steel ring = focus ring

Lightly grease the inside and also the base flange of Focus Ring and slide over the main Body all the way. Then rotate the Focus Ring counterclockwise and then back clockwise over say 10 cycles. This will spread the grease and the mechanism will eject any excess grease via the vertical slots into the optical space. Use cotton

swabs dampened with lighter fluid or grease removal fluid to remove the grease spillage in the optical space until clean and dry.

Check for smoothness, add grease if not.

When satisfied fix M105 focus ring retaining ring - take care not to cross threads and tighten until the focus drag is just right for you.

Ok forgot to say put grease on bottom of drag ring before you fix it.

m105 ring



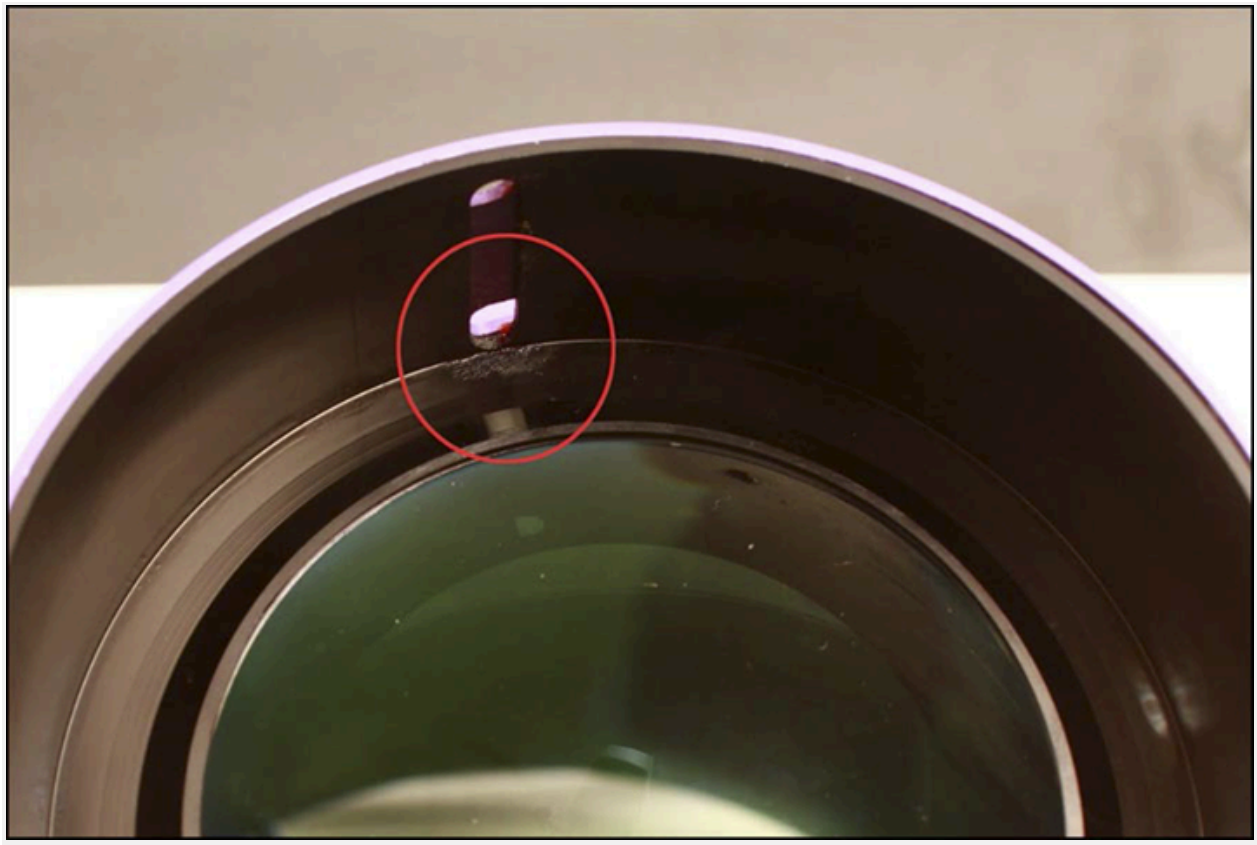
green ring in this pic

on bottom face

when done should look like this.



Check for grease spillage and clean.



Have you fitted the green drag ring?

Now clean up inside for grease spillage.

Ok now wash hands time to fit the front glass.

Fit glass in front lens holder using a twisting action until it sits nicely.

Then fit the retaining ring to secure, but do not overtighten.

Show me a photo when done.



Ok chk green ring drag ring is flush or below lip on main body.

Rotate Focus Ring until the bottom of one of the cam curve slots aligns exactly with the bottom of one of the vertical slots of the main Body.



Good, now rotate to next position to cheap focus sweep is good

Ok insert lens holder into main body such that mid point of Rectilux aligns with stripe on body.

Insert pcv lens holder into the main Body all the way to the bottom so that it makes contact with the inside flange inside the main Body and align each of the M2 threaded bores with the bottom of the vertical slots on the main Body.



Insert each Cam Sheave through the bottom of the cam curve slot of the FocusRing, then through the bottom of the vertical slot of the main Body and mated with the counterbore on the pc Lens Holder (this ensures the cam sheaves do not extend beyond the outside surface of the FocusRing) and fix using thread lock compound the M2 countersunk screws, but not tightly, just enough to allow some rotation of the Cam Sheaves on the M2 screws and such that the M2 screws are not raised beyond the outside surface of the FocusRing, as shown above.



All 3 screws and sheaves must be fitted.

You can slightly tweak screw pressure for best feeling, 1 side versus other 2 etc

Ok with the lens retracted inside, fit the gear ring at the infinity mark matching holes and thread on the steel ring and then fit small screws.

Don't forget the grease!

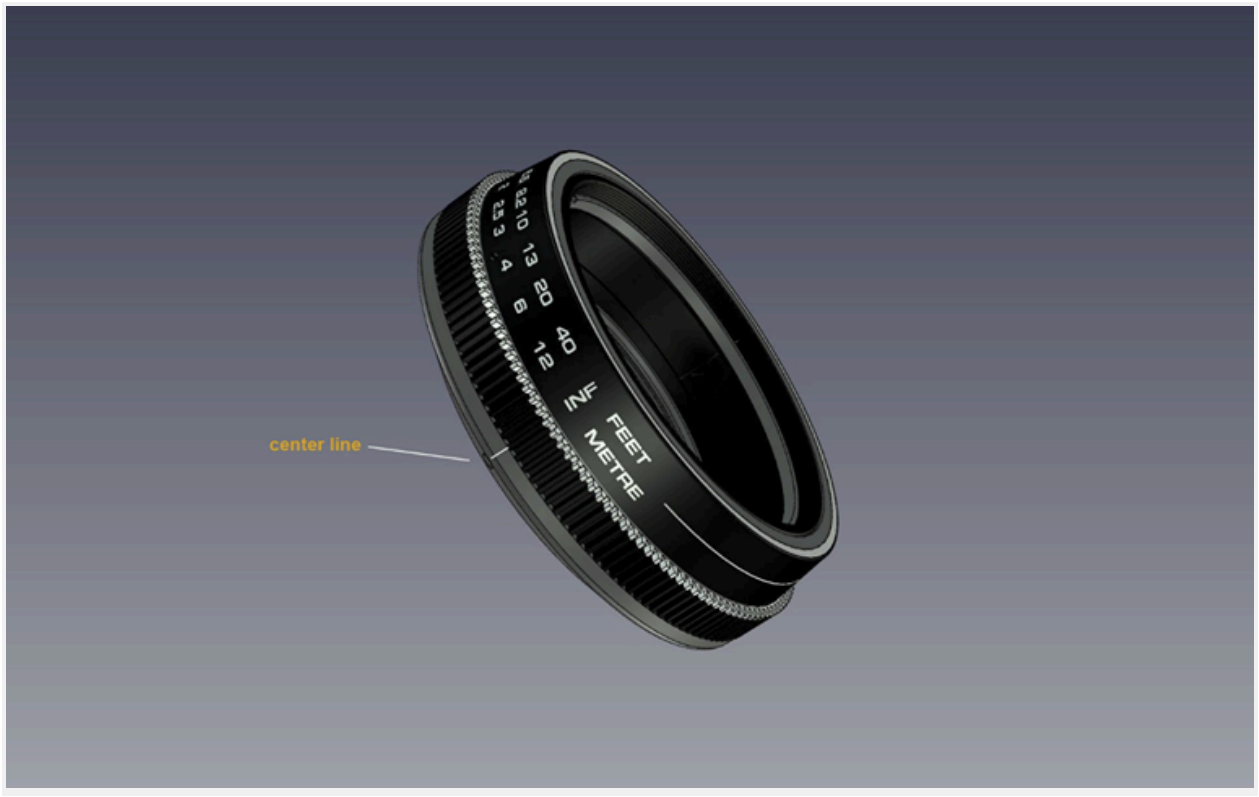
Finally, apply a thin layer of grease to the base of the GearRing and slip the GearRing over the FocusRing to check that it is a good fit and then apply thread lock compound and insert the M2 grub screws through the GearRing and fix to the corresponding matching threaded bores in the FocusRing. The M2 grub screws should be no deeper than about 0.5mm below the surface of the GearRing.

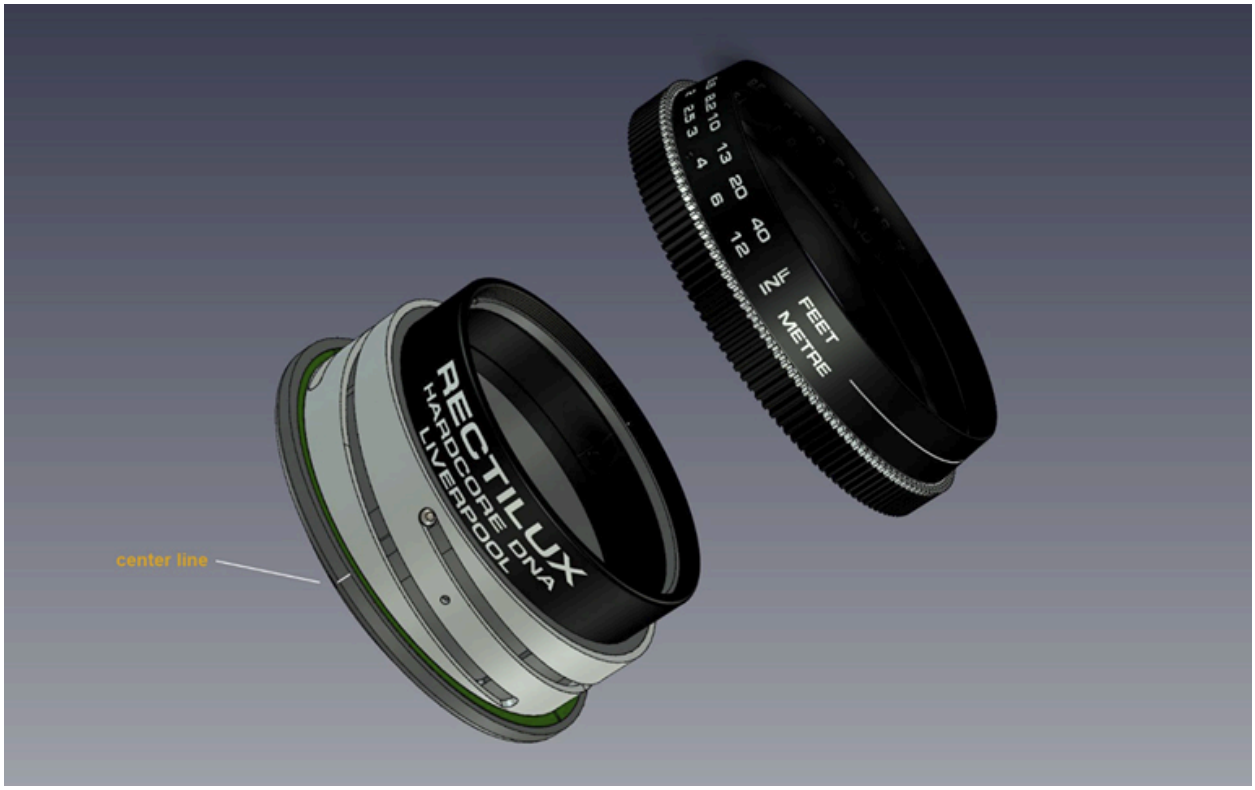
when done move lens out to 1m position and carefully fit back lens and retaining ring - not tight.

If you didn’t put threadlock do it later one screw at a time on all screws and drag ring

When retracted white line will be at inf mark. It should be smooth with no play wobble.

Rotate lens holder until centre of Rectilux text is at white line.





correct positioning of lens holder matched to white line.