

Olympus PMG

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Hello all,

I'm new to this forum, so if anything I ask has been answered before, I would be happy to learn how to find the answer...

I have just gotten a, I think, very beautiful Olympus PMG metallograph. It's from the 1960's I believe. I am in the very beginning stages of restoring it. So really right now I'm just doing an inventory of what's good, bad, broken, etc.

I need the screw that holds the fine focus lever in place, it is sheared off. If anyone knows a source for these kinds of parts, do let me know. My guess is I'll become friends with a machinist...

I would like to know if anyone may have technical documentation about this instrument so that I can know how to take various things apart and if there are hidden small parts that I'll likely lose if I'm not aware they exist...

All existing mechanically moving parts need to be cleaned of their old grease and new grease applied. Does anyone have suggestions as to what kind of grease should be used where?

I have a protocol from Olympus on how to clean optical surfaces, but when it gets to cleaning internal prisms and mirrors, it says to contact a local technician.... Any advice on how best to clean these internal optical surfaces, or what not to do, etc.

Here's a bit of a brain teaser for you. The instrument came with a eye piece mounted micrometer but I can't figure out the scale that is being used. The piece has the following markings on it:

On the body that houses the micrometer mechanism – OSM 202575
On the eyepiece itself – Olympus Elgeet R10X

I am assuming the 10X is the magnification of the eyepiece, I don't know what the R means.

I put a stage micrometer on and measured the following:

Olympus PMG

0.05 mm = 57 units on eye piece micrometer

0.10 mm = 114 units

0.15 mm = 171 units

0.20 mm = 228 units.

Does anyone recognize what unit system this eyepiece micrometer works in? Or what this eyepiece may have originally been used for?

Thank you very much for your time.

dj

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