

## **SERVICES PROVIDED FOR DYNASCOPE INSTRUMENTS**

(Related ACC procedures include NPWI-OPTCLN, MP-FILCAL, MP-DYNCAL)

- Perform full evaluation.
- Full cleaning of exterior, stand and lighting equipment.
  - Adjust lamp connectors; substage and epi lighting for best image clarity and brightness.
  - Check bulb sockets for signs of arcing or burnt wiring.
  - Adjust fiber-optic lighting.
- Clean surfaces of all field lenses per ACC procedure **NPWI-OPTCLN**.
- Clean rear viewing mirror and projection mirror.
- Clean reticle and X10 lenses.
- Check for motor/disk vibration at highest magnification.
- Check Filar unit for dirt and ensure smooth operation.
  - (Evaluate, clean; if necessary perform repairs or refurbish at customer request.)
  - Check turret; tighten if necessary.
  - Check photo options; center and focus.
  - Check stage operation; tighten hardware as needed.
  - Check scanning table; perspex tightness (rollers); check force required to move platen.
  - Lubricate mechanical wear surfaces.
  - Filar micrometer calibration verification using ACC masters and ACC calibration procedure **MP-FILCAL**.
  - Calibrate tube length with NIST standards for field of view filar measurements, such as on the 4 and 5 Series Dynascopes.
  - Calibrate stage linear accuracy and repeatability using ACC masters and ACC calibration procedure **MP-DYNCAL**.
  - Furnish Certificate of Accuracy when applicable. (Before/After data available.)
  - Furnish written report of any problems found and make specific recommendations as to any part that needs replacing and any action needed to increase machine productivity or maintain accuracy.
  - ACC glass master stage micrometers calibrated traceable to NIST to .00001" (10 microinches)
  - ACC steel and ceramic master gage blocks calibrated traceable to NIST to .000002" (10 microinches)
  - Seal all non-user adjustable hardware with enamel.
  - All Calibrations conform to ANSI/NCSL Z540-1 and meets ISO requirements.

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Approval signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

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