

Historage-Elec Controls



Leica @ BRDG

Caution: Never attempt to hold or grab any component of the machine to stop motion

Microtome SOP



American Optical @BRDG

Prepared by: Bob Morrison STLCC , Instrumentation Specialist May 2008, updated Dec 2015 for models at BRDG



Mechanical Controls

Microtome: American Optical, Model 820, SN 70298



Hotlink to Effective Use and Care of Microtome.....(LARGE pdf, 93 pgs)

Hotlink to American Optical, Model 820 Reference Manual (pdf)



Key to oil and grease points on the AO "820" Microtome

- O1 2 drops Pike Oil every month for average usage and 2 drops every news w O2 2 drops of Pike Oil every month
- G Grease surface every 6 months for overage usage and every 3 manths for it * Relubricate knife holder parts and knife holder slideway with this asserting of a
- For maintenance instructions see Instruction Manual 820-301 (Effective Use and Pinger Care-the Microsome) Chapter III, section D, Page 18. NOTE: For best results, do not operate faster than one revolution per second. For therefore "Sectioning Difficulties", see manual 820-301, Chapter II, Page 6.
- AMERICAN OPTICAL CORPORATION SCIENTIFIC INSTRUMENT DIVISION
 - BUREAUCH, M. W. DOCT Survey of the state of the state

Microtome: American Optical, Lube Schedule

Microtome: Leica, Model SM 2000R



Hotlink to Leica Model SM2000R, Reference Manual.....(pdf)

Microtome : General Setup and Operating Instructions

- 1. Prepare specimen in paraffin or desired mounting material
- 2. Before plugging in the device, mount specimen and the knife and adjust per page 4
- 3. Plug in the device and set electronic controls per page 5
- 4. Release the cutting flywheel by moving the locking lever up, page 3
- 5. Engage the flywheel motion by moving the lever on the flywheel clockwise (cw), page 3
- 6. Engage knife platform motion by rotating the platform lock lever clockwise (significant force is required), page 3
- 7. Cancel or stop using the electronic buttons ONLY. Never attempt to hold or grab any component of the machine to stop motion, page 5.

Microtome; Mechanical Controls, Major

Flywheel; Specimen Motion (up, down, lock, unlock) rotate to move specimen above knife area Free Flywheel lever ; down to lock, up to allow cutting motion Speciment Adjust (see next slide) Knife Adjustments (see next slide) Knife Mount Lock; CW to clamp knife for motion and slicing Rate of Cut, 0-200 mm/sec (speed of up/down motion) CW to increase.

Microtome; Mechanical Controls, Knife (K) and Specimen (S) (DO NOT PLUG IN DEVICE AT THIS TIME)

S1. Release to remove entire block if needed



K3. Set height of knife, screw CCW, then slide bar

STLCC-CPLS;Morrison 12/14/2015

K1. Release Levers; set angle of knife mount

Microtome; Historange with Electronic Controls



Microtome: Other Protocols or Notes

• Future home of other or more details protocols....