JEOL 7001 Operating Instructions

Backscatter Detector and Low Vacuum

Backscatter Detector

- 1. Acquire an SE image (Stigmator, focus, wobbler etc.)
- 2. Turn off the IR camera.
- Set scan rate to 'Fine 1'
- 4. Adjust the **'Probe current'** to medium or larger range. (you may have to play with the "Probe current" to get an image)
- 5. Select 'Topo or Compo' (Backscatter detector modes) from detector pull down menu.
- 6. Adjust the 'Contrast and Brightness' and adjust the Focus.

Low Vacuum

- 7. Turn Off the "Observation Off" icon, light will go off (filament turns off)
- 8. Select **Backscatter detector** from detector pull down menu. (follow BD instruction above)
- 9. **'EVAC'** the specimen chamber.
- 10. On the "Touch Panel Unit" press "LV".
- 11. Touch "OK" to confirm.
- 12. Touch "Low Vacuum Control".
- 13. Adjust and "Set" pressure.
- 14. Wait for vacuum to stabilize. VERY IMPORTANT!!!!
- 15. Turn on the "Observation ON" icon so becomes green (this will turn on the filament)

Low Vacuum Shut Down

- 16. On the "Touch Panel Unit" press "HV".
- 17. Touch "OK" to confirm.
- 18. Wait for 'HV' to stop blinking and then proceed.
- 19. Press and hold the 'Vent' button on front of instrument.

*****When not in use the Instrument is to be left under High Vacuum*****

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