

Wait at least 3 seconds between clicks when raising accelerating voltage. In addition, wait at least 3 seconds after the crackling noises from the gun stop.

Never touch anything intended to enter the chamber. Clean all samples with ethanol or similar solvent.

Any and all problems should be recorded exhaustively in the trouble record book. Include gun start up details, pressure readings, and any other possibly relevant information. Record as soon as possible so as to avoid forgetting or garbling possibly useful data.

Always view sample through viewport when raising stage. Similarly, retract detectors when moving stage.

If the pole piece contact alarm sounds, shut down accelerating voltage and view sample+stage to retreat from contact.

Always bring accelerating voltage down slowly (comparable to rate bringing voltage up) to at most 10kV before shutting beam down.

If the gun shuts down, turn down the extraction voltage and filament heating current to zero (in that order) before doing anything else.

Use of the specimen exchange airlock is preferable. Keep main chamber venting to a minimum.

Keep hands clean and free of oil when using machine. Few things are as annoying as greasy controls, and sample contamination becomes more likely.

NEVER bring food or drink into microscope room. The door should be as close as you get.

Keep LN2 baffles fed. Feeding is recommended before use. Don't forget to log LN2 use.

Specimen exchange position is listed on machine: Z=38.8, Z'=5.0, tilt=0, rotate=0, X=1.7990mm, Y=2.9650mm (as per "air lock" on fastrack keyboard).

Don't forget to sign in and note operation conditions, specimen, summary of problems, etc. in user logbook.

READ MANUAL BEFORE USING. Receive training from approved operator. No excuses.