

INITIAL CHECKS

Run diagnostic software (TAD must be logged in as support)										
Optics test (UI must be on)										
Motion test										
Systems vacuum										
Note spot size										
Note BSD Brightness and Contrast for Gold	C% B % Au =232 in MLA									
Filament current and Bias setting Quanta should be on modified auto bias control (50micro amps)	Fil I: Bias setting: Fil V: Em I:									
Note Specimen current @ correct working conditions (Pico ampere meter)										
Vent time (insert Test sample)										
Image @ 80Kx, 25Kv										
Low mag Focus (100x no image distortion)										
EDS Cu Al peak positions	Cu L: Al K: Cu K:									
Count rate and resolution for process time 4 and 6 micro sec	4 μ sec CPS: DT: Resolution: 6 μ sec CPS: DT: Resolution:									
Check Ed resolution with previous services note any changes	To be saved in service directory with DT ,cps and resolution as file name.									
Ed detector height for optimal cps	9.5mm = 10mm= 10.5mm= 11mm= Optimal wd=									
Check Eds counts spread Cps and Dt Note WD = _____mm	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">Top L</td> <td style="width: 33%;"></td> <td style="width: 33%;">Top R</td> </tr> <tr> <td></td> <td>Centre</td> <td></td> </tr> <tr> <td>Bottom L</td> <td></td> <td>Bottom R</td> </tr> </table>	Top L		Top R		Centre		Bottom L		Bottom R
Top L		Top R								
	Centre									
Bottom L		Bottom R								
Check spectrum continuum tail off of High tension										
Stage Horizontal and Vertical check movement frame matching										
Vent - Check stage level										

CLEANING, POLISHING AND CHECKING OF:

	DONE	COMMENTS
Whenelt Cap		
Check filament height		
Whenelt positioning		
Gun Area and ceramic cond.		
Grease dynamic O-rings		
Apertures (TOP 800 MICRON MIDDLE 500 MICRON)		
Check BSD detector for damage		
Final Aperture (200 MICRON)		
Check Bullet for damage (thread)		
Clean Column Liner		
Check column liner o-ring		
Check SE Det. for damage		
Clean ED Det. for oil (clean with Petroleum/Ether)		
Check ion trap / collimator		
Check door & gun O-rings		
Stage Movement		(Remove sample holder!)
Test limit switches on stage		
Check for excess dirt grease on stage		
Clean chamber		
Check / Change RV oil		(swop pumps)
Clean Penning gauge		
Clean desk and console		
Clean Column shell		
Clean KeyB and mouse ball		
Check for noisy/failed fans		
Replace blown bulbs		

Calibrate all process times				
Check Eds counts spread Cps and Dt		Top L		Top R
			Centre	
		Bottom L		Bottom R
Magnification Calibration check microscope measure with edax image				
Check frame overlaps (frames must meet properly)				
Do stage repeatability test (tad)				
Pc date and time				
Scan disk and defrag				
Remove temp files				
Ghost Hard drive				

GENERAL COMMENTS.

SIGNATURE

SERVICE ENGINEER

CUSTOMER

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