

DS 130

SEM OPERATING INSTRUCTIONS

A. START UP PROCEDURE.

A1. Before turning instrument on, set the controls in the positions indicated below. Controls and switches not mentioned may be set at any position.

<u>SECTION</u>	<u>CONTROL</u>	<u>POSITION</u>
Column	Vacuum Valve	Shut
Display Console		
Right Hand Side	Main Power	Off (lower half depressed)
	Diffusion Pump (DP)	Off (lower half depressed)
	Operation	Off (lower half depressed)
	Emission	Fully anti-clockwise
	Spot Size	12 o'clock to 2 o'clock
	Alignment (X and Y)	12 o'clock
	Stigmator (X and Y)	5 on vernier dials
	Dynamic Focus	Zero
	Meter Selector Switch	Vacuum
Left Hand Side	Contrast	12 o'clock
	Scan Mode	Rapid 1 or Rapid 2 (TV)
	Magnification	Low
	Secondary Electron (SE)	Depressed

A2. Turn on mains power.

A3. Turn on cooling water and adjust flow rate to 0.5 gallons/min.

A4. Turn on main power switch (console RHS).

A5. Turn on rotary pump (console RHS) and wait for 5 seconds.

A6. Switch on diffusion pump (DP) (console RHS) and wait for 10 minutes.

A7. A specimen may be inserted into or removed from the chamber at this point. If this is necessary, depress red AIR switch on the column, wait until vacuum drops to zero on meter, insert or remove specimen and close chamber.

A8. Depress the blue OPERATE switch on the column and wait until the green light (console RHS) comes on and the vacuum indicated on the meter is in the green region.

A9. Wait 30 seconds and depress the operation switch (console RHS).
Make certain emission control full anti-clockwise