

# OPERATING PROCEDURE

## March PLASMOD system

Rev. 1/30/2003

### System Load and Start UP

1. Ensure the **AC** switch on the GCM module is ON
2. Ensure the **AC** switch on the PLASMOD module is ON.



3. **OPEN** the metal door on the PLASMOD module by turning the knob so the arrow points left →.
4. Pull out the quartz door and inner chamber.



5. Load your substrates into the inner chamber attached to the door.
6. Replace the quartz door and inner chamber.
7. Gently press the quartz door in position and press the **VACUUM** switch to turn **ON** the vacuum.
8. Ensure that the vacuum gauge begins to display a vacuum.
9. **CLOSE** the metal door on the PLASMOD module by turning the knob so the arrow points down ↓.



10. Once the vacuum gauge is below the red line, Press the **GAS 1** Switch to turn **ON** the Oxygen.
11. You can adjust the oxygen level using the knob on top of the **GAS 1** Rotameter.



12. Set your plasma time on the seconds indicator above the Vacuum gauge.
13. Press the **RF** switch **ON**.



14. In approximately 45 seconds the plasma will turn ON.
  - a. Use the power **LEVEL** knob to set the power level.
  - b. Use the **TUNE** knob to get the best plasma (by color).



## **System Unload and Idle**

1. When the plasma time is complete the RF will automatically turn OFF.
2. Press the **RF** switch to turn it **OFF**.
3. Press the **GAS 1** Switch to turn it **OFF**.
4. Wait a couple of minutes for the chamber to purge of the gas.
5. Release the **VACUUM** switch to vent the chamber.
6. **OPEN** the metal door on the PLASMOD module by turning the knob so the arrow points left →.
7. Pull out the quartz door and inner chamber.
8. **UNLOAD** your substrates into the inner chamber attached to the door.
9. Press the quartz door into the chamber and turn **ON** the **VACUUM** switch.
10. **CLOSE** the metal door on the PLASMOD module by turning the knob so the arrow points down ↓.
11. Power **OFF** AC buttons on both the GCM and PLASMOD modules.
12. Record use in log book.