

Quick Reference & Calibration for Varian 947/948

To start from an "All Systems OFF" condition:

1. Turn on the Main Power switch located on the front of the machine.
(some machines have the Main CB on the back)
2. Turn on the Rough Pump switch on the front panel.
3. Turn on the Detector switch.
4. Let it warm up for at least 30 minutes.
5. On start-up the Display will show C4, C8, C9, after system pressure drops into Green
the C4 & C9 should clear leaving a steady C8 → use AUTOCAL to clear C8

To place in Standby mode:

1. Press VENT, hold until VENT LED comes on.
2. Turn Roughpump switch OFF (or leave it on)

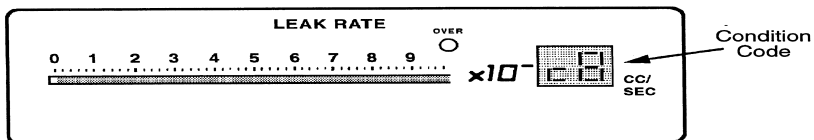
Codes flash 4 times, then display will show the next code.
If only one Code, display will flash 8 times, then stay on steady.

To return to "READY FOR OPERATION":

1. Turn the Roughpump switch ON.

To Shutdown:

1. Turn the Roughpump switch OFF.
4. Turn the Detector switch OFF.



Condition Code Chart

Code	Problem Area	Solution
C2	Rough Pump OFF	check breaker, check plug, if not running call for service
C3	Service Mode	No longer used
C4	No emission	Select the other ion source filament.*
C5	Auto Calibrate function is out of range	Leak detector requires maintenance. Contact Mass 4 Service Tech Support*
C6	Auto tune function is out of range, cannot see helium	Leak detector requires maintenance. Contact Mass 4 Service Tech Support*
C7	Auto Zero is out of range	Press ZERO Button to clear C7; turn on Std Leak, if reads correctly, OK to use.
C8	Power Interruption	AutoCAL machine to clear C8
C9	System pressure too high	Select the other ion source filament. Check for vacuum leaks. Leak detector requires maintenance. Contact Mass 4 Service Tech Support*



800-910-4356

For Operator Training, Tech Support and Leak Detector Maintenance please visit www.mass4.com