

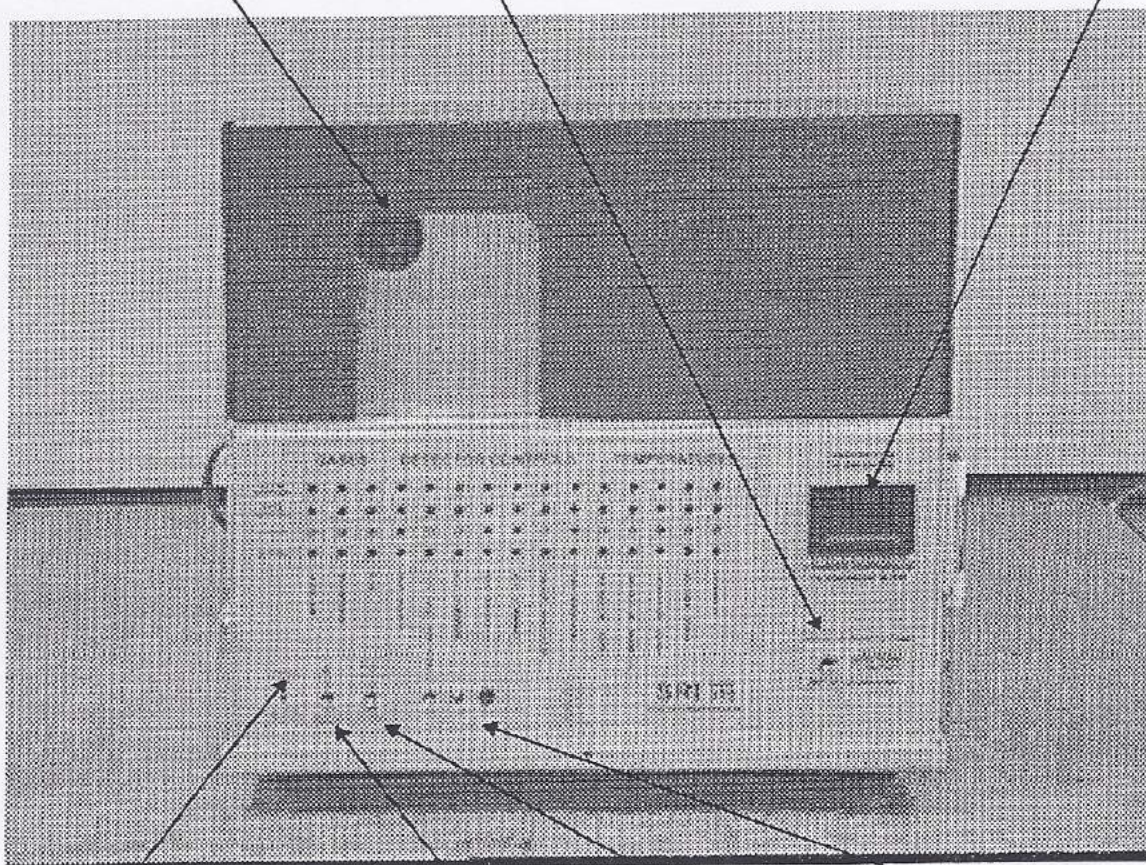
Chapter: MODEL 310 GC CHASSIS

Topic: FRONT PANEL ORIENTATION

Liquid or gas injection port for 26 gauge syringe needle

Meter selector switch allows constant display of column oven temperature (down position) or display of any zone setpoint or actual when a specific button on the front panel is pushed (up position).

Digital Panel Meter displays column oven temperature, detector temperatures, gas pressures, and detector parameters such as FID ignitor volts, PID lamp current, FPD PMT voltage, etc.



Thermo-couple out of range alarm LED indicates when any heated zone is reading less than 5 or more than 400 degrees Centigrade. When alarm is activated all AC power to heaters is shut off by de-energizing main power relay.

Polishing filter bake out switch heats built-in carrier gas filter for 5 minutes to eliminate contaminants.

Optional built-in internal air compressor on/off switch. Air compressor is used to supply air for FID, FPD and DELCD detectors

Detector control switches enable on/off of various detector parameters such as PID lamp current, FPD PMT volts or FID ignitor.

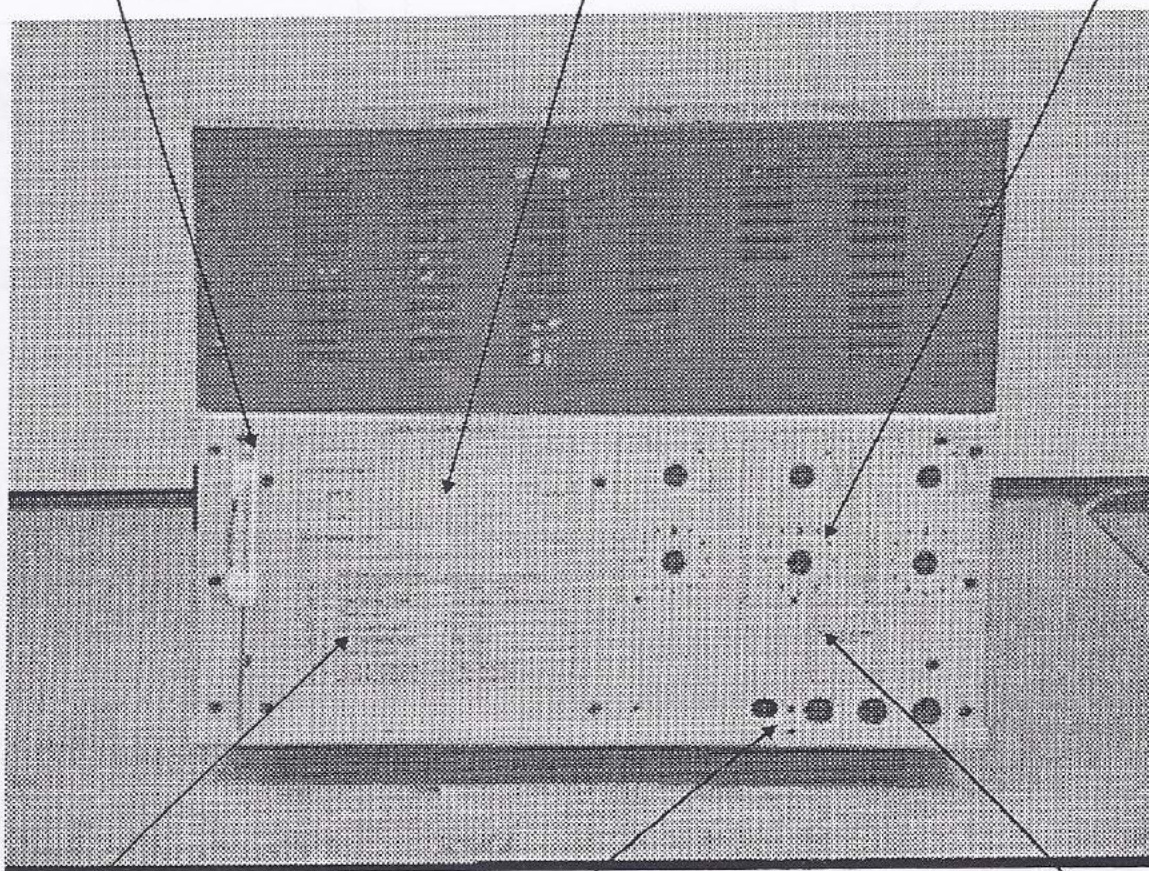
Chapter: MODEL 310 GC CHASSIS

Topic: RIGHT SIDE PANEL ORIENTATION

Screwdriver in convenient "holster" for adjustment of temperature and pressure setpoints

Gas flow rate table is used to record the flow rates and pressures used for detector support gases. Factory technicians record typical flow rates and pressures used to test detectors before shipment.

Mounting location for optional detector "zero" and attenuator knobs when such controls are installed. These controls are normally not required when the GC is supplied with the built-in PeakSimple Data system, but are installed when no data system is provided.



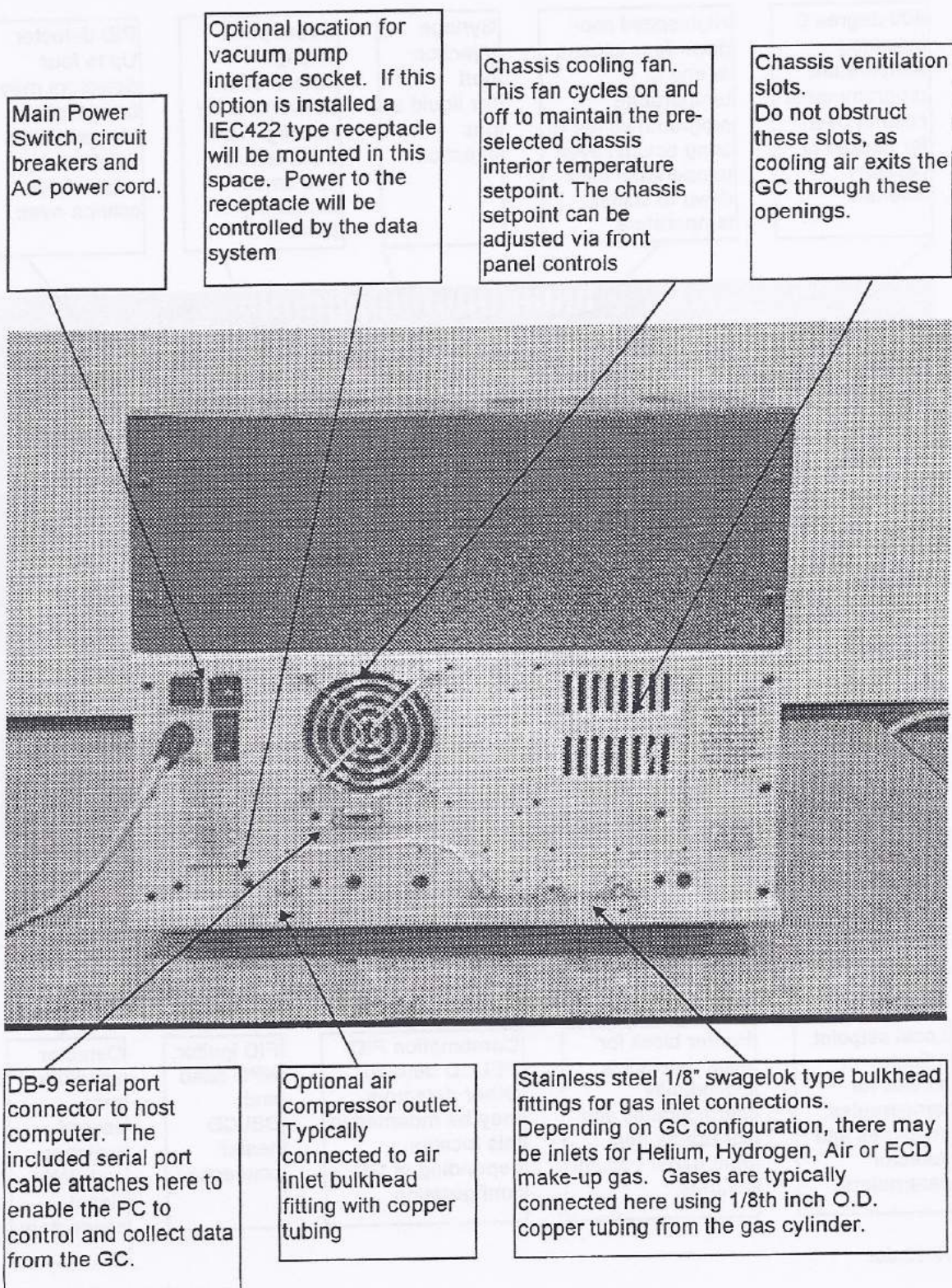
Relay function table shows which function each of the 8 (A-H) data system relays is assigned. Depending on GC configuration, some relays may have no function.

Signal cable access holes are provided for optional situations requiring wiring to exit GC.

Optional location for mounting of quick disconnect jack for remote start foot switch.

Chapter: MODEL 310 GC CHASSIS

Topic: LEFT SIDE PANEL ORIENTATION



Chapter: MODEL 310 GC CHASSIS

Topic: TOP PANEL ORIENTATION

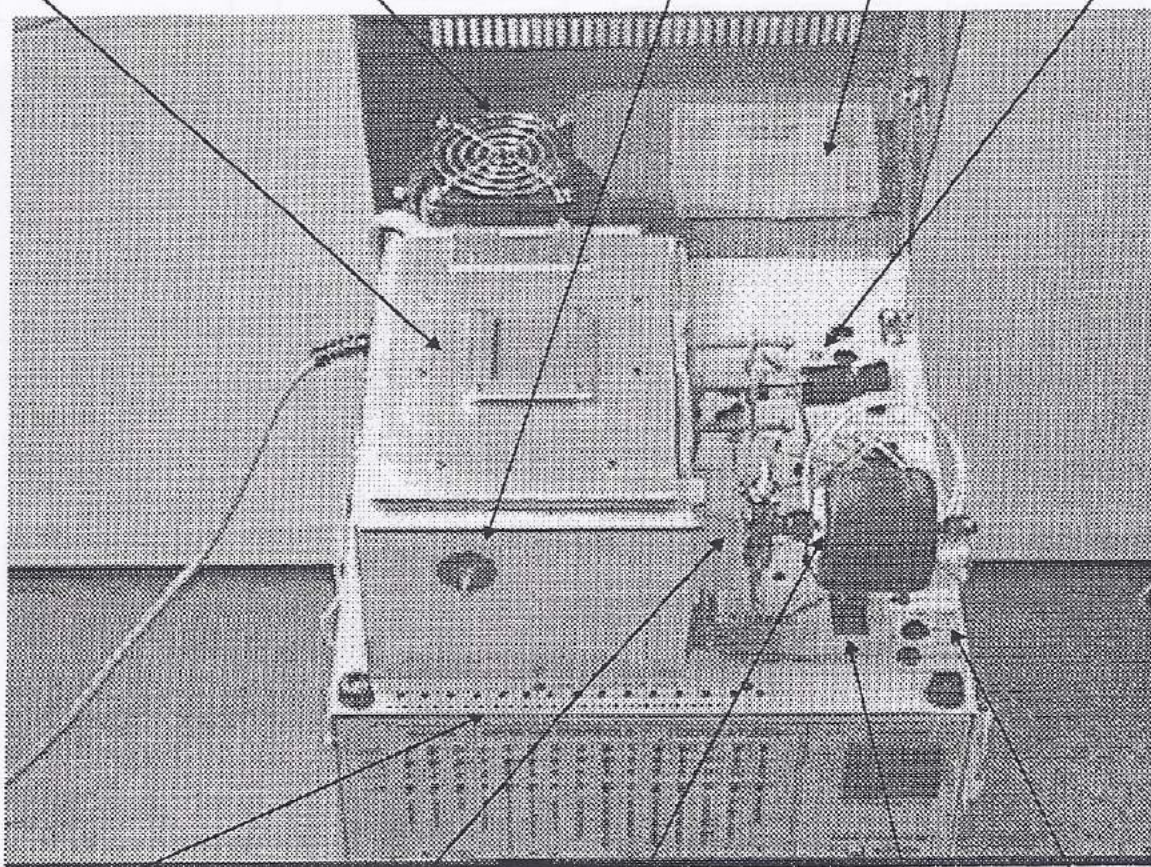
400 degree C insulated temperature programmable column oven for packed or capillary columns.

High speed cool-down fans engage at end of temperature programmed run to bring column oven temperature back down to starting temperature.

Syringe injection port for liquid or gas injection

Spare parts storage container is convenient for holding extra nuts, ferrules and small accessory parts.

PID detector. Up to four detectors may be mounted alongside the right hand edge of the column oven.



Local setpoint adjustment screws for temperatures, pressures and detector parameters.

Heater block for each detector is individually thermostatted and adjustable from front panel setpoint controls.

Combination FID-DELCD detector. Other detectors may be mounted in this location depending of GC configuration.

FID ignitor, NPD bead and DELCD heater connection.

Detector amplifier gain control switches and BNC signal connectors

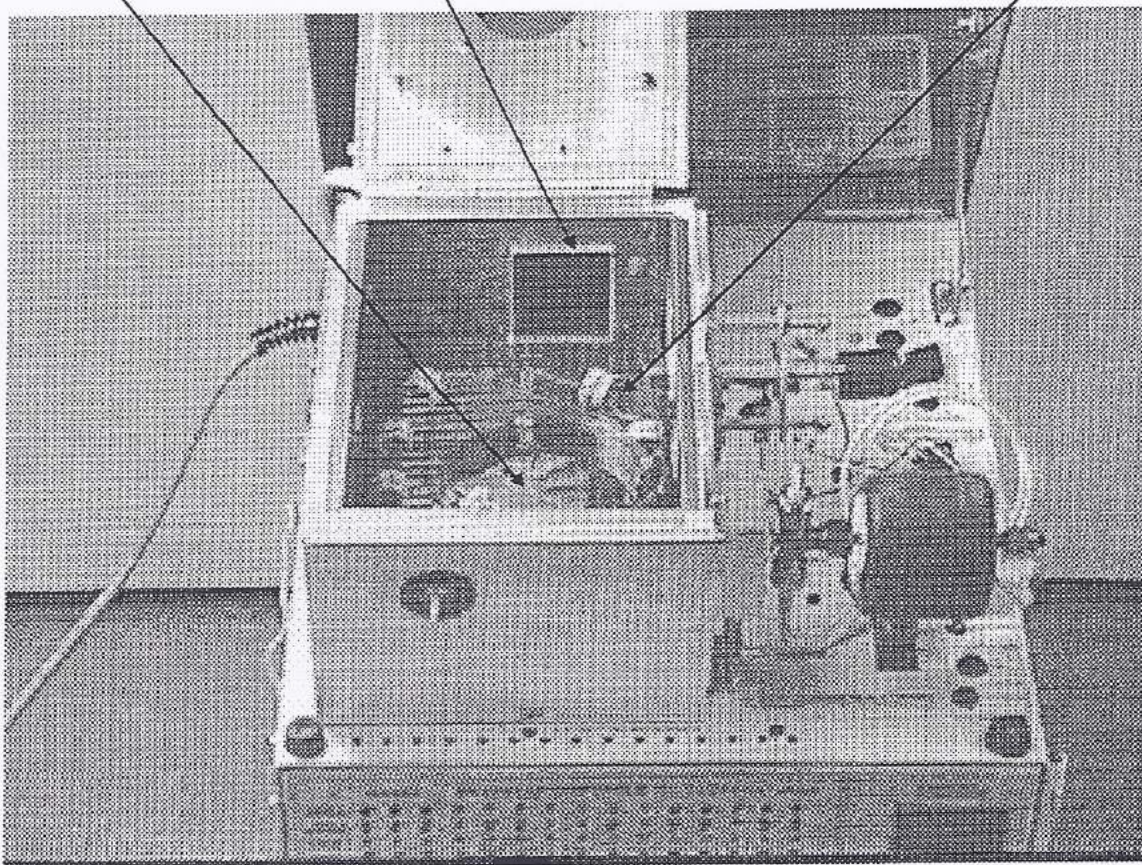
Chapter: MODEL 310 GC CHASSIS

Topic: COLUMN OVEN INTERIOR

60 meter .53 mm. I.D. capillary column shown mounted in column oven.

Duct for cooling air from oven cooling fans.

Circulation fan and heater coils on bottom of column oven. All heater circuits and circulation fan are disabled by interlock switch which is deactivated when red lid is raised.



The column oven on the SRI Model 310 GC is designed for column diameters up to 4" (10 cm.). While this column diameter is smaller than average, most packed and capillary columns can be ordered with the recommended 3.5" coil diameter. Metal capillary columns are suggested because of their ruggedness and long life.