

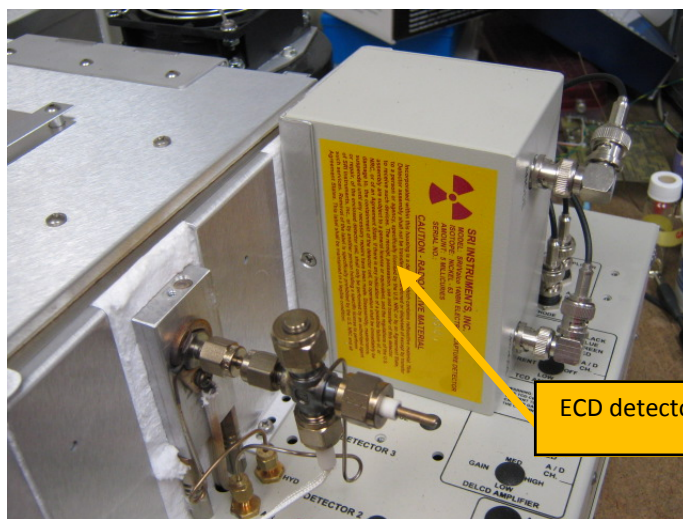
Removing the ECD detector from an SRI 8610C GC

August 2013

Because it is very expensive to ship the radioactive ECD detector internationally, it is best to remove from the GC before shipping the GC back to the factory for service or modification.

Remove the two BNC cables from the ECD.

Before you do, use a magic marker to identify the Anode and Cathode so you don't mix them up when you re-assemble.

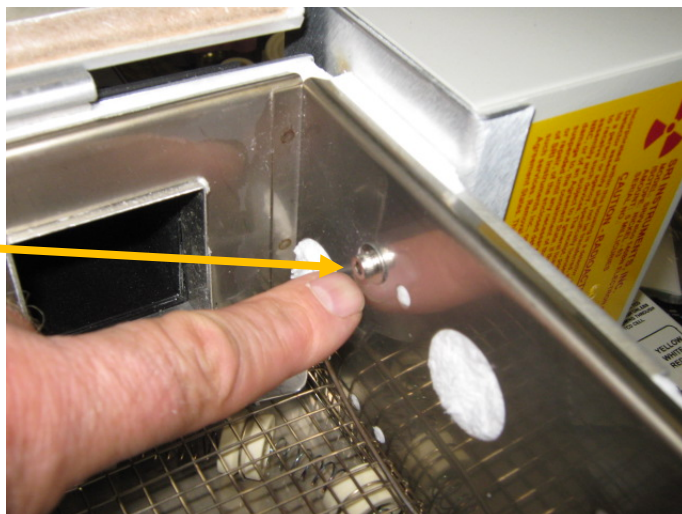


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Using a 7/64" hex wrench, remove the capscrew here.



Remove the bracket on the rear of the column oven using a Phillips head screwdriver.

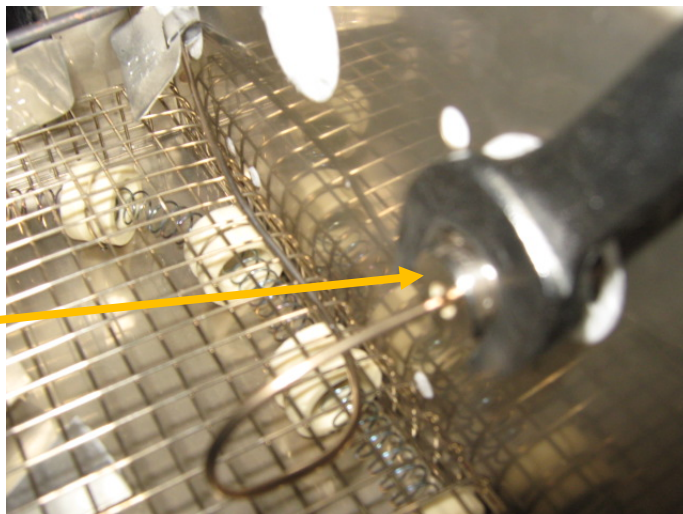


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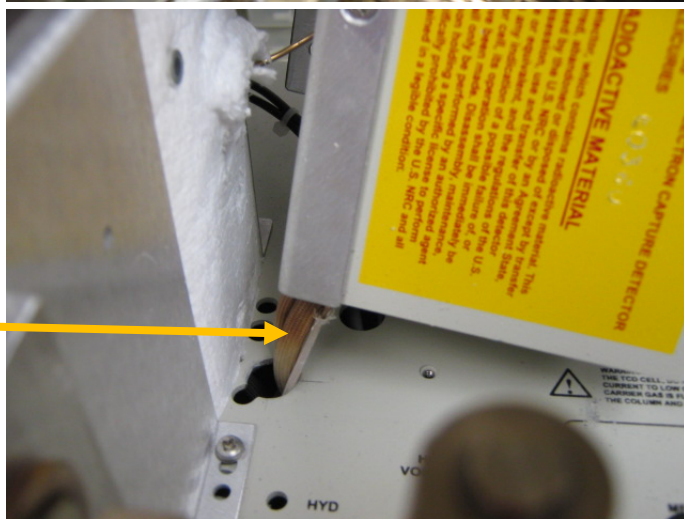
The ECD detector has an exit tube which may be connected to another detector (typically the FID). Remove this tube from the FID.



The ECD inlet tube may need to be removed to allow easy removal of the ECD. Use a 5/16" wrench.



The thermo-couple and heater wires are routed to the ECD through a hole in the chassis



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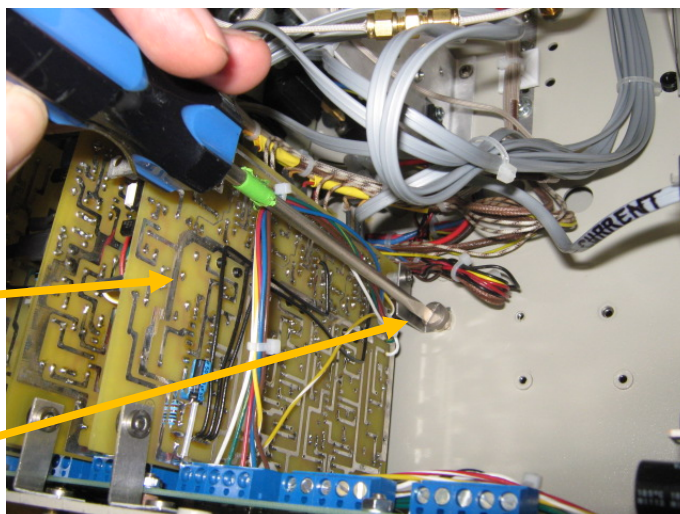
Remove the bottom cover of the GC (six screws), then tilt the GC on its back for access to the inside of the GC.

Follow the thermo-couple and heater wires inside the GC to the circuit board which controls the ECD heat.

Remove the circuit board by loosening the captive screw with a flat blade screwdriver.

Also remove the two Phillips head screws which hold the circuit board in from the back of the GC.

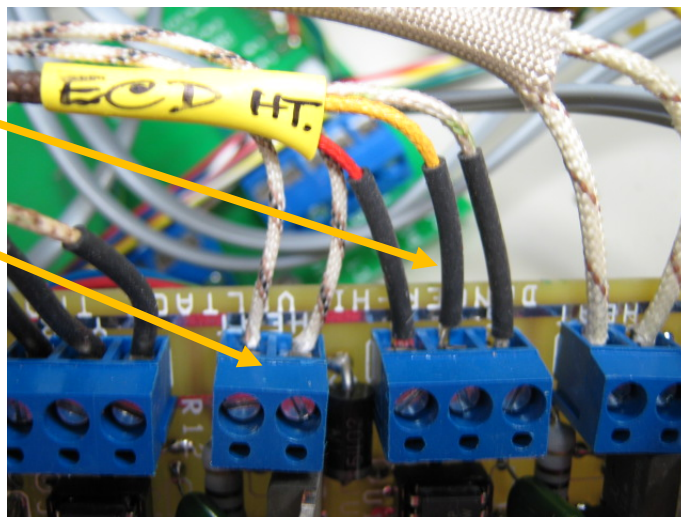
Locate the 3 thermocouple and two heater wires which are tied together and labeled ECD HT (ECD Heat) as shown in the photo.



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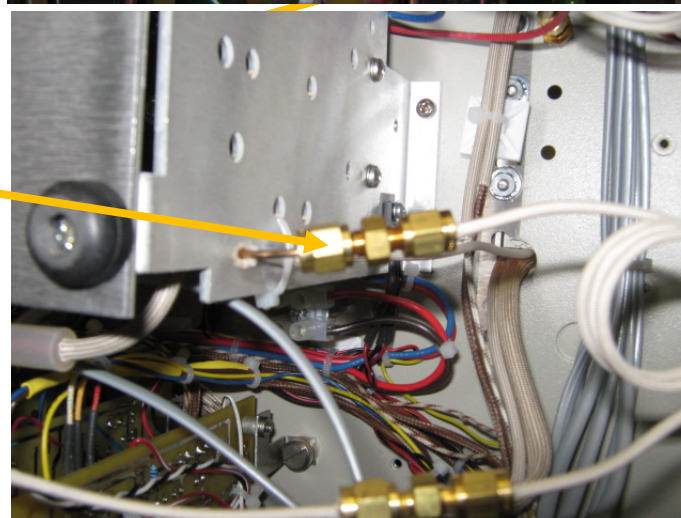
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Remove the 3 thermo-couple wires.
And the two heater wires.



Disconnect the ECD makeup gas line at the 1/16" brass union fitting.

The ECD can now be removed from the GC by pulling the wires through the hole in the chassis.



Note that with the thermo-couple removed the GC will not operate since the Thermo-couple out of range alarm will be triggered. This stops all heaters in the GC.

If you need to operate the GC with the ECD removed, connect a type K thermo-couple to the screw terminals from which the ECD thermocouple was removed. This "dummy" thermocouple will read the temperature of the inside of the GC and will allow normal operation of the GC with the ECD removed.
Do NOT connect a heater to the circuit board.



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