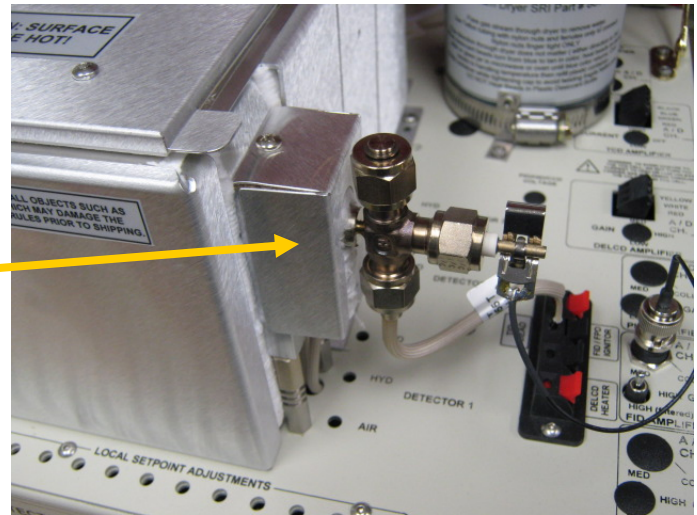
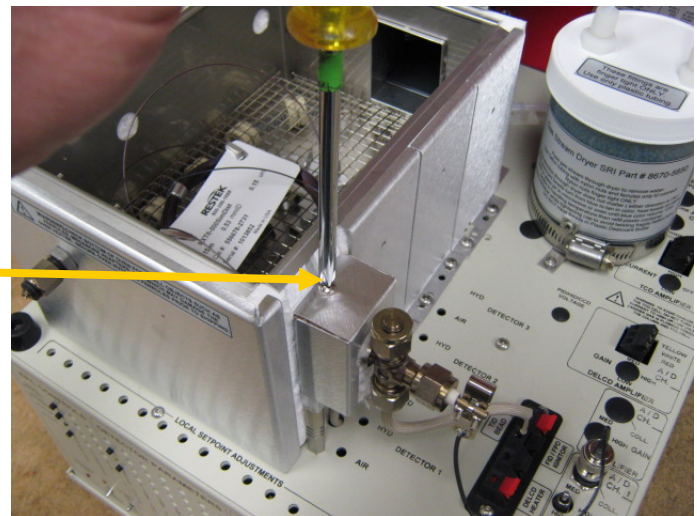


Replacing the TID bead on SRI 8610C and 310C GCs

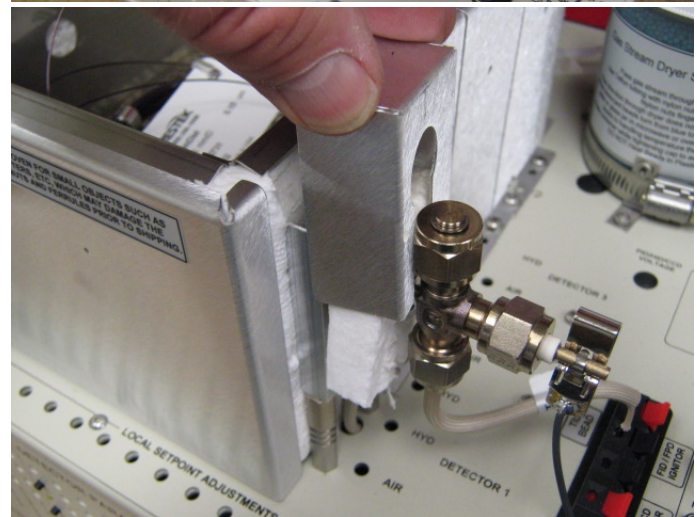
The TID detector is mounted on the right side of the GC's column oven.



Use a phillip head screwdriver to remove the screw holding the insulation cover.

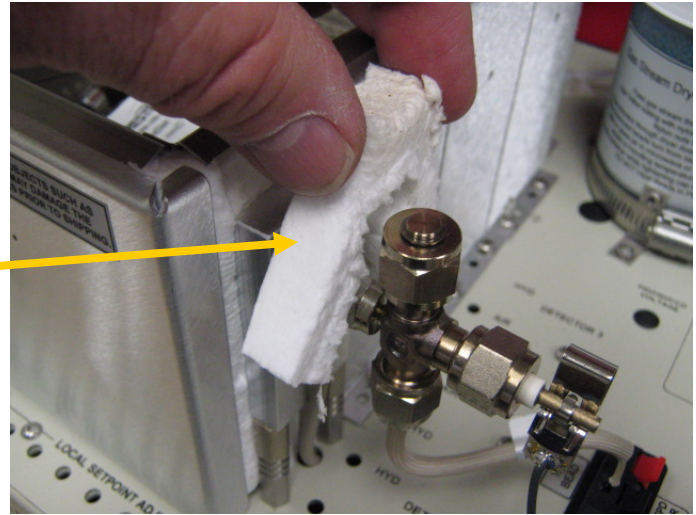


Remove the aluminum cover. Be sure the detector is cool before touching.

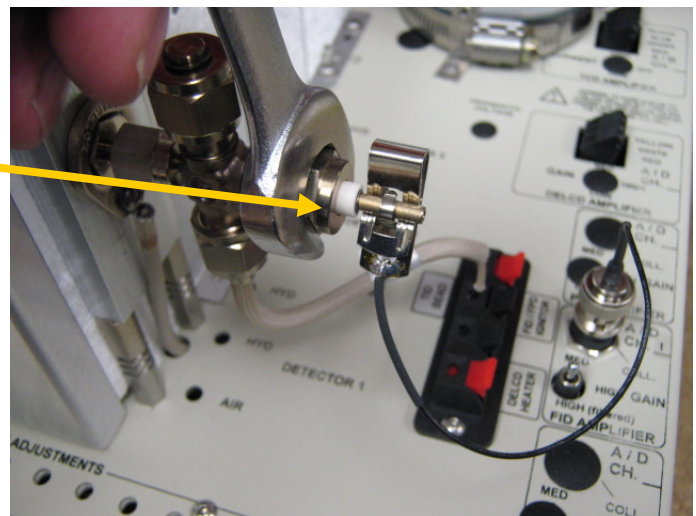


Replacing the TID bead on SRI 8610C and 310C GCs

Remove the insulation carefully to avoid breaking off any.

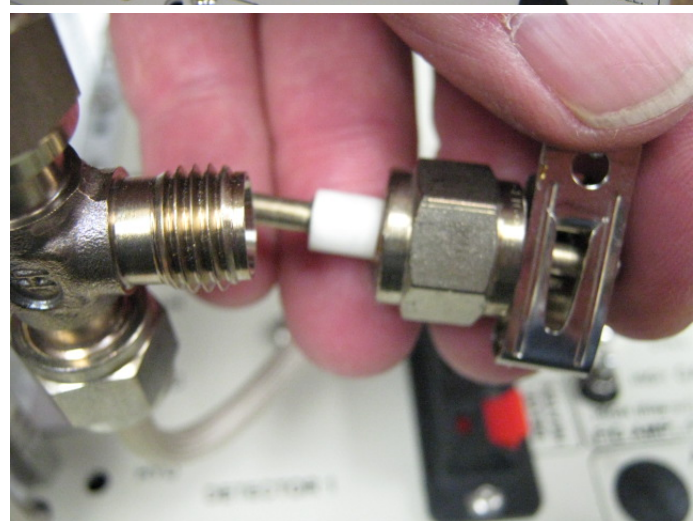


Use a 9/16" wrench to remove the collector electrode. Note how far the white alumina insulation protrudes from the back of the nut.



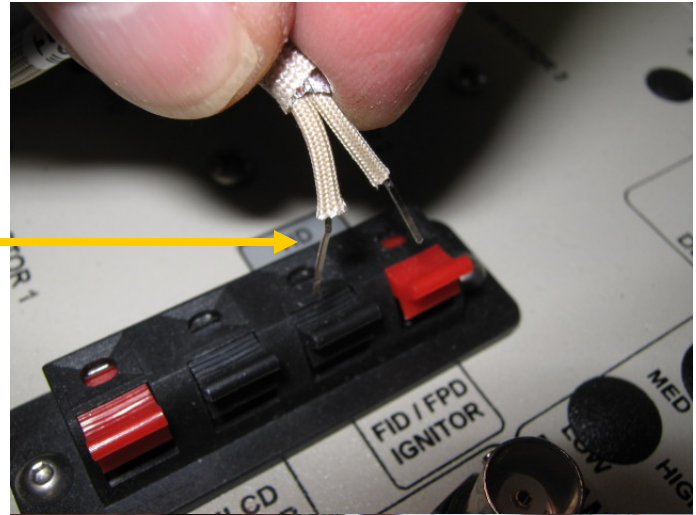
It's a good idea to make a magic marker line on the alumina before removing.

Remove the collector electrode from the detector.

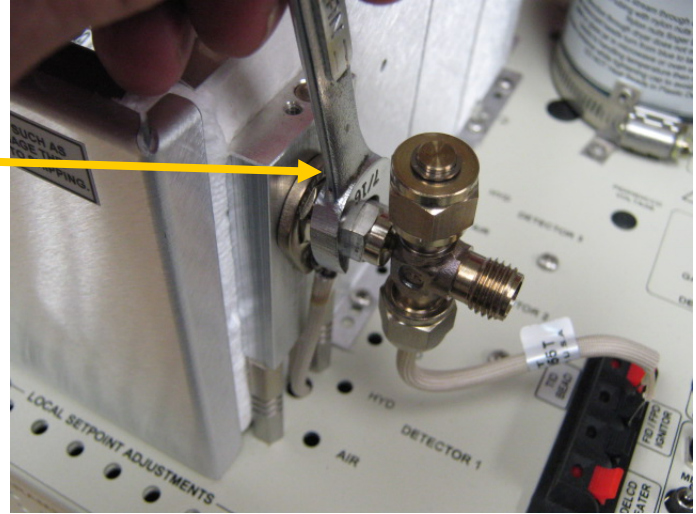


Replacing the TID bead on SRI 8610C and 310C GCs

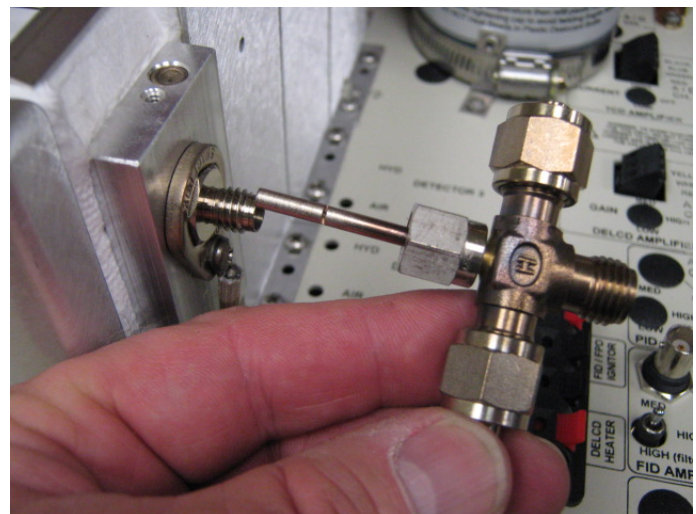
Unplug the TID from the push terminals.



Use a 7/16" wrench to loosen the detector body from the bulkhead fitting.



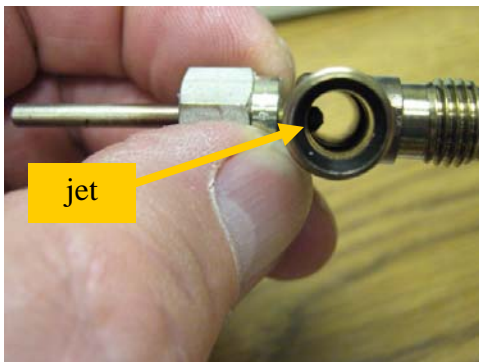
Slide the detector body out of the bulkhead fitting.



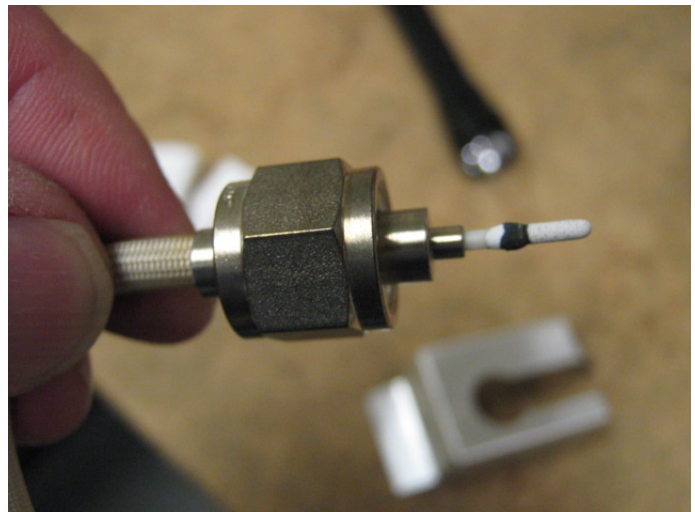
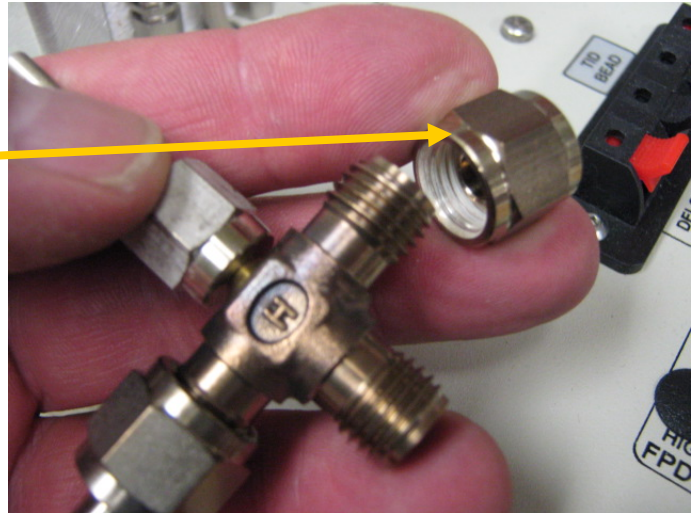
Replacing the TID bead on SRI 8610C and 310C GCs

Remove the detector cap so you can see better inside the detector body.

When you look inside the detector body you will see the bead positioned directly in front of the jet.



Remove the old bead carefully. It is a ceramic, so it can break if bent or banged.



Replacing the TID bead on SRI 8610C and 310C GCs

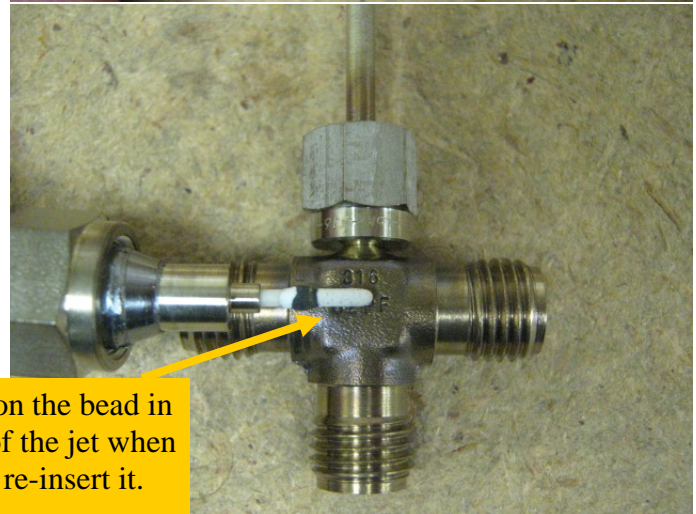
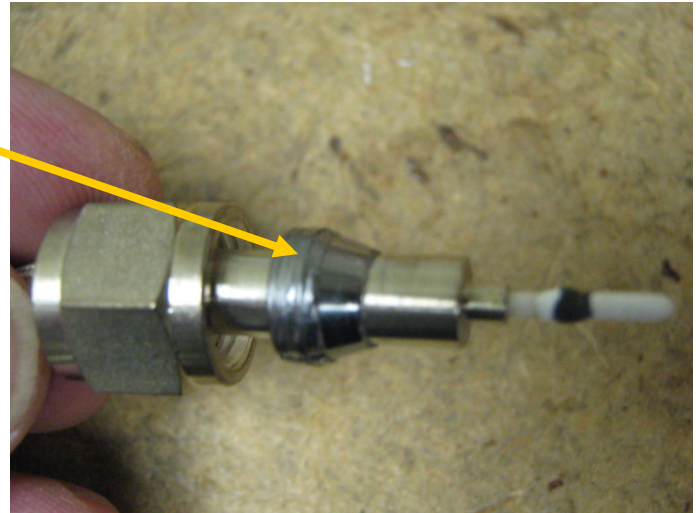
Insert the new bead carefully using a new 1/4" soft graphite ferrule if the old ferrule has been overtightened.

Re-assemble the detector.

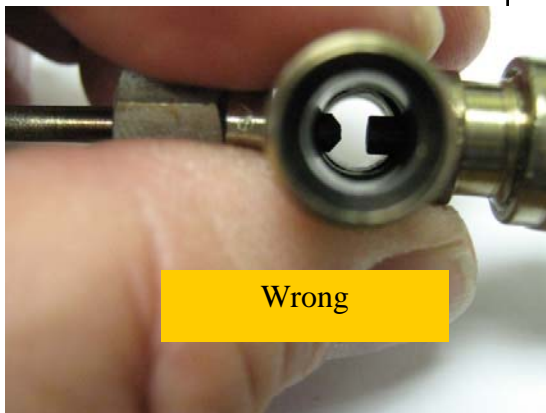
Set the operating voltage to -300 (bead volts). Sometimes the operating voltage may have been raised on the old bead to compensate for reduced sensitivity.

Make sure the collector electrode is not too close to the bead. The end of the collector electrode should just be visible when looking down from the top.

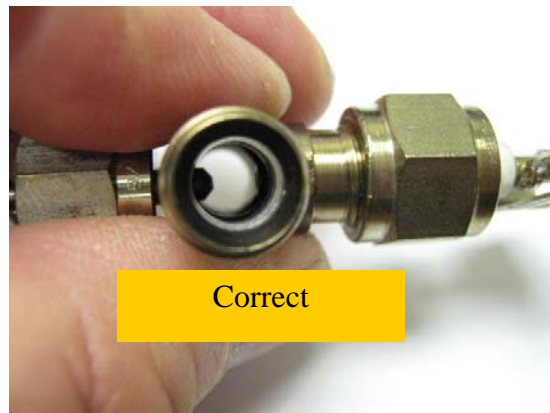
Be sure not to hit the bead with the column. This can happen if the column is inserted too far.



Position the bead in front of the jet when you re-insert it.



Wrong



Correct