

Installing the Agilent 7694 Head-space Sampler Interface Kit for the Agilent 6890 Gas Chromatograph

Accessory G1940A

The G1289 Headspace Sampler requires an interface connection to the 6890 GC's carrier gas line and Auxiliary EPC control module.

Kit parts list

Part	Quantity
Tube, 520mm	1
Nut, Transfer Line	1
Ferrule, Transfer Line	1
ZDV Union	2
1/8-inch ferrule set, brass, Swagelok	1
PDD Self-seal Bag	3
Knife File	1
Installation Guide	1
Zero Tube Restictor	3
O-rings (6 pack)	1



Agilent Technologies

Required tools

Pliers

File (included in kit)

7-mm open-end wrench, 2 each

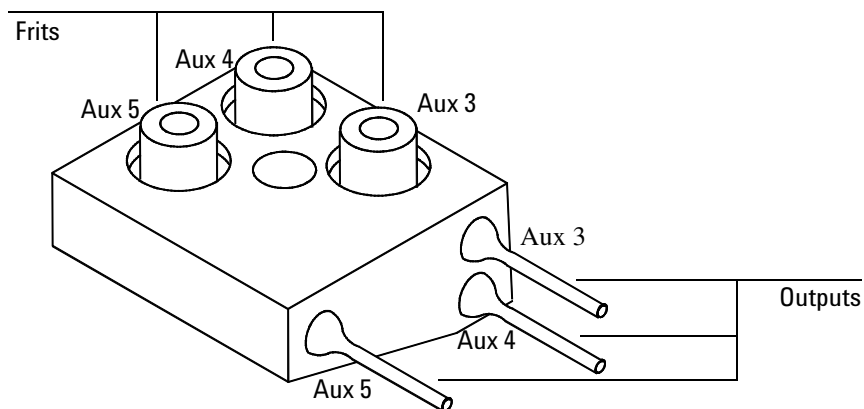
7/16-inch open-end wrench, 2 each

Installation

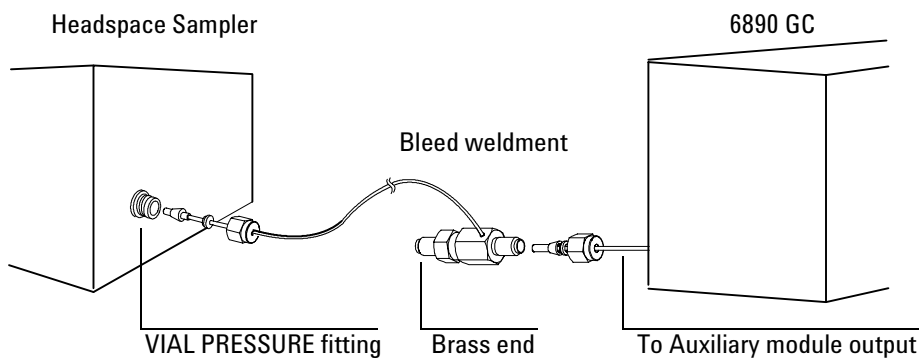
This installation places the Headspace Sampler between the GC inlet flow control and the inlet itself. Since the GC is controlling the flows and pressures, these setpoints are part of the GC method and easy to reproduce.

The G1289 sampler does not contain a flow controller or a pressure regulator. Carrier gas is supplied by a GC inlet control channel. Vial pressurization gas is supplied by an Auxiliary gas channel in the GC.

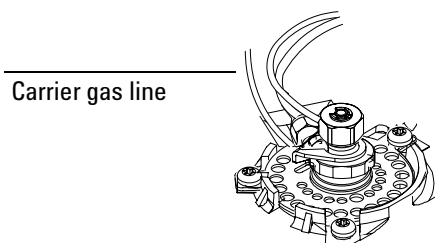
1. If the GC does not have an Auxiliary EPC module, install the module provided.
2. On the Auxiliary module, locate the block that connects the three gas outlet tubes for the auxiliary channels to the pneumatics module.
3. Remove the screw that holds the block to the pneumatics module. Pull the block free of the module and rotate it so that the frits are on top.



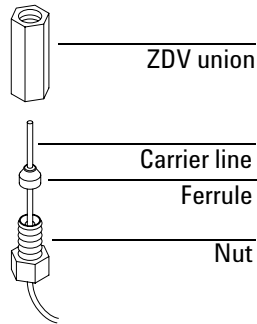
4. Decide which channel you will use for the vial pressurization control. Pull the frit for that channel out of the block. Remove the O-ring that seals it.
5. Place an O-ring on a zero-resistance brass tube frit (part no. G1570-20540). Place the O-ring/frit combination in the block.
6. Reconnect the block to the pneumatics module. Tighten the screw firmly.
7. Use tubing and Swagelok fittings to connect the appropriate Auxiliary module output, the bleed weldment, and the VIAL PRESSURE fitting on the back of the Headspace Sampler as shown. *Do not disturb the brass end on the bleed weldment.*



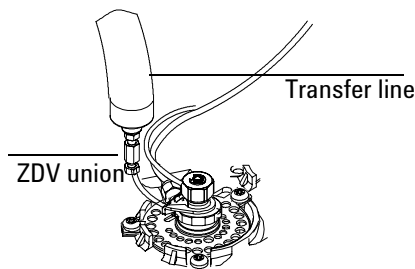
8. Install a deactivated splitless liner (part no. 5181-8818) in the inlet.
9. Locate the carrier line to the split/splitless inlet.



10. Cut the carrier line to the split/splitless inlet about 1 to 2 inches from the inlet body.
 - a. Carefully score the circumference of the tubing.
 - b. Hold the tubing with pliers on each side of the score and flex it until it breaks free.
 - c. File the edges until they are smooth.
11. Slide the nut onto the inlet side of the carrier line.
12. Attach a zero-dead-volume (ZDV) union to the short piece of carrier line attached to the inlet.



13. Attach the headspace sampler transfer line to the ZDV union.



14. Use the other ZDV union to connect the free end of the carrier gas line to the length of tubing provided. Route the tubing out the back of the GC to the rear panel of the sampler.
15. Connect the tubing to the CARRIER fitting on the sampler.

© Agilent Technologies, Inc. 2001
2850 Centerville Road
Wilmington, DE 19808-1610
Printed in USA DEC 2001



G1290-90367