Installing a Purged Packed (PP) Inlet

Agilent 6850 Gas Chromatograph

Accessory G2651A

These instructions are divided into two parts:

- **Part 1** to prepare the Electronic Pressure Control ("EPC") module for later installation into the Agilent 6850 Gas Chromatograph ("GC")
- **Part 2** to perform the actual Accessory installation into the GC

Part 1: Preparation of the PP EPC module

Locate the following item found in your Accessory kit:

Cover Kit G2630-60081 consisting of:	Qty.
EPC cover	1
Hex nuts, 7/16-inch	2
Vent fitting	1

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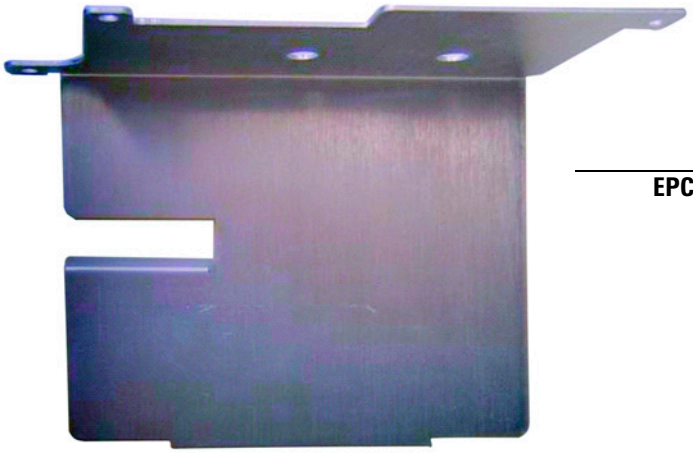
5/16-inch hex nuts



EPC module cover

EPC module vent fitting

Caution Some of these assemblies contain printed circuit boards so standard ESD precautions must be followed: use a static control wrist strap (supplied) connected to a suitable ground in handling the assemblies.

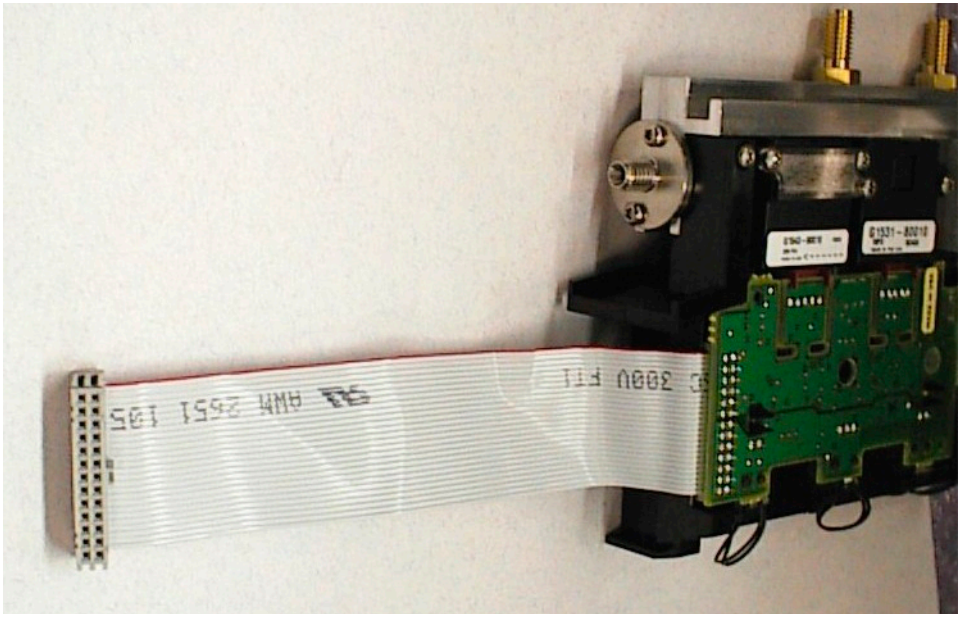
The following tools are required for this assembly:

Tools Required

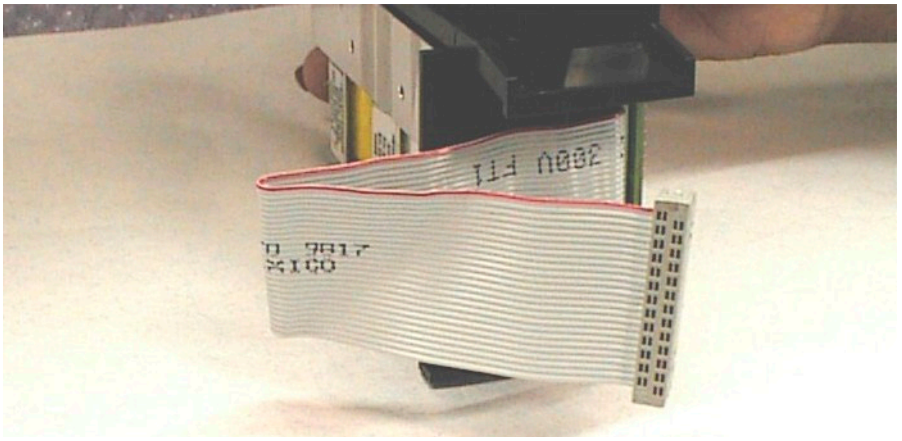
7/16-inch open end wrench or nut driver

Procedure

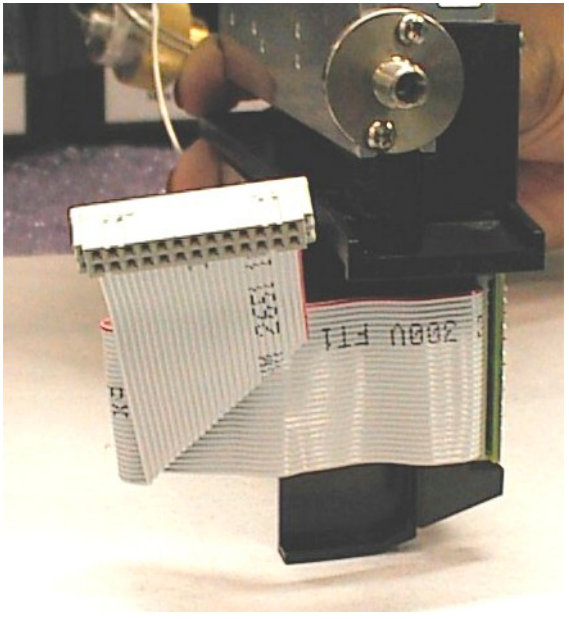
1. Prepare a suitable clean, dry, static-free work area.
2. Place the inlet system assembly such that its EPC module is centered in your work area with its ribbon cable extending to the right.



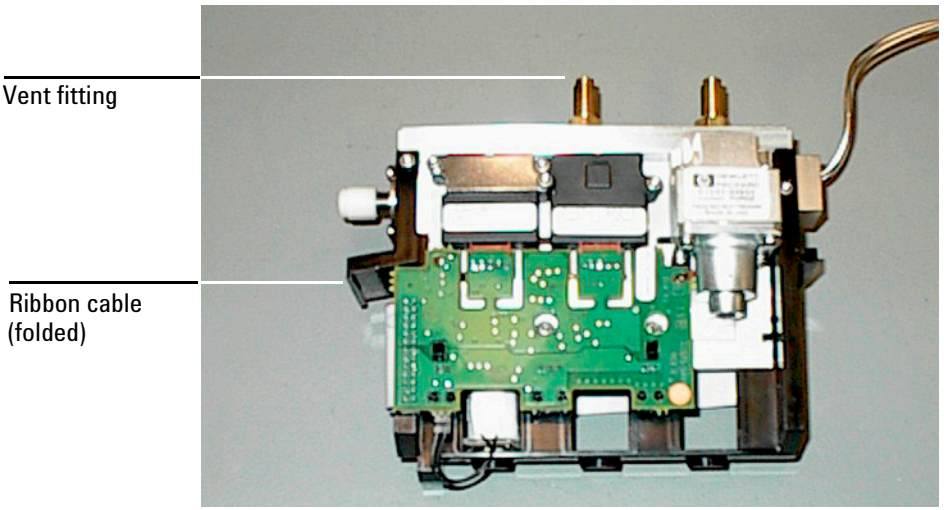
3. Remove any dust caps from gas connection fittings.
4. Fold the cable back on itself and gently crease it about midway along its length.



5. Next, fold the cable back on itself again, but at an angle such that it now extends at 90-degrees in the direction of the gas connection fitting. Again, gently crease the cable at the fold.



6. Next, install a vent fitting and secure it with a 7/16-inch wrench or nut driver.



7. Install the cover onto the two gas fittings making sure the ribbon cable and its connector exit through the slot provided. Secure the cover using 7/16-inch hex nuts, one onto each fitting.

8. Replace protective dust caps onto gas connection fittings to maintain cleanliness.

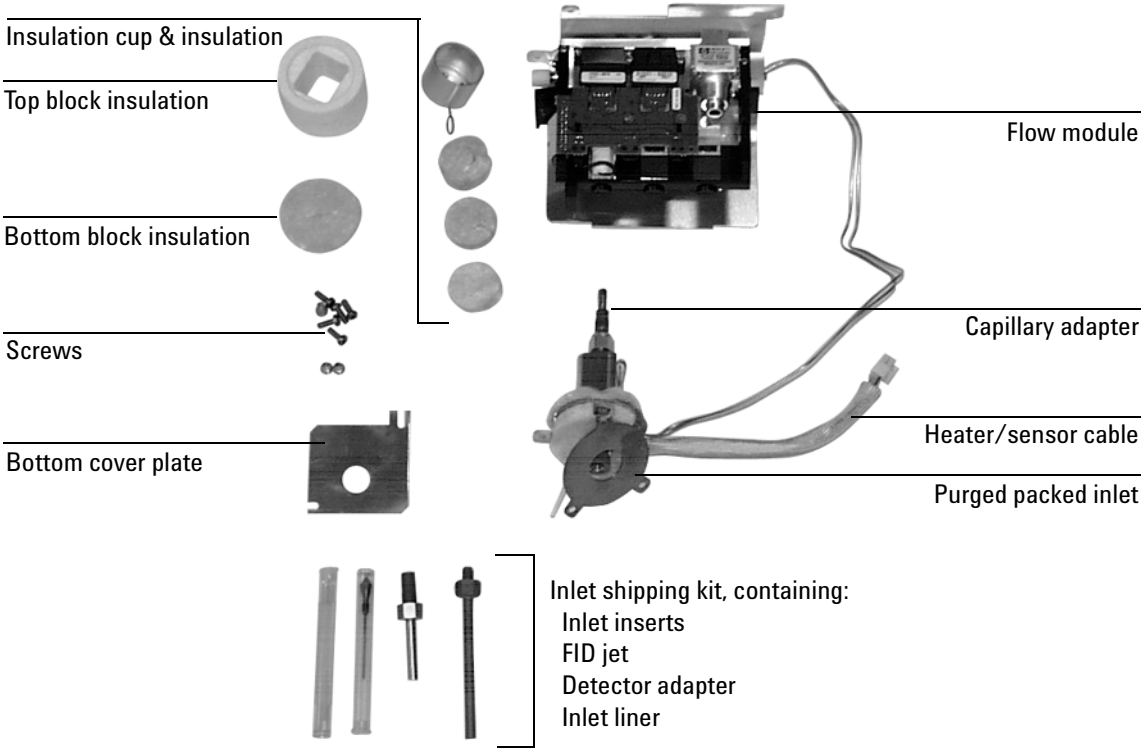
This completes EPC module preparation for this Accessory.

Part 2: Installation of the PP Accessory

This kit contains:

Description	Quantity
Purged packed column inlet system	1
Top block insulation	1
Bottom block insulation	1
Insulation cup	1
Top cup insulation	1
Bottom cup insulation	1
Bottom cover plate	1
Screw, M4 x 8 mm, Torx T-20	2
Wrist strap, disposable, large	1
Installation sheet (this document)	1

The purged packed inlet and flow module are a factory-assembled and leak-tested unit. Do not disassemble the unit during installation.



Tools Required

Torx™ T-10 driver

Torx T-20 driver

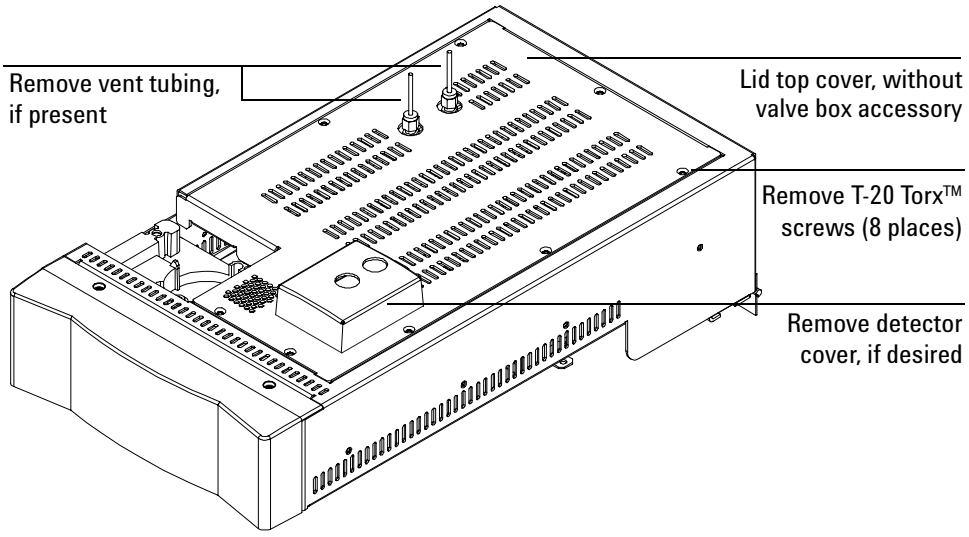
Open end wrenches

Safety Information

Before continuing, read the safety information on your *Agilent 6850 Gas Chromatograph User Information* CD-ROM.

WARNING Before proceeding, turn off the oven and any heated zones and let them cool down. Turn off all gases at their source, then turn off the main power switch and unplug the power cord.

Remove the Lid Top Cover

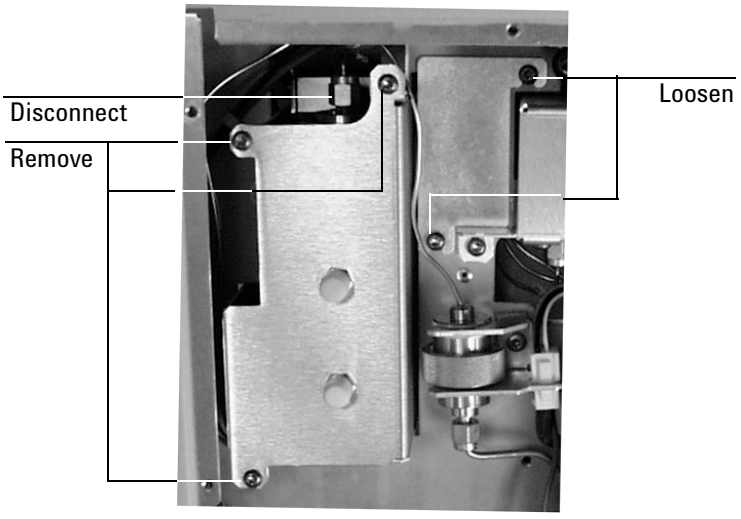


Remove the Existing Inlet

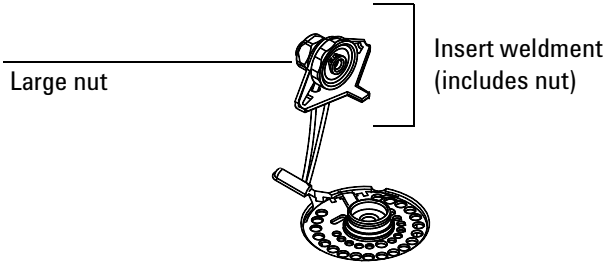
Removing a Split/Splitless Inlet

1. Open the lid. Disconnect the column from the inlet.
2. Remove the insulation cup and insulation.

3. Loosen the screws holding the connector cover plate next to the inlet flow module.



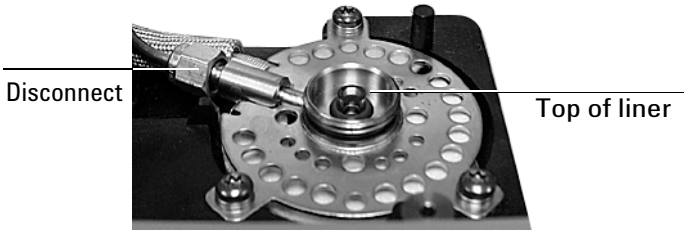
4. Slide the plate off and disconnect the cable from the flow module.
5. Disconnect the gas fitting on the back of the flow module.
6. Remove the three screws on top of the flow module.
7. Use the inlet wrench to release the large nut on top of the inlet.



8. **If you *do not* have a gas or liquid sample valve**—Remove the insert weldment and the flow module.

   If you *do* have a gas or liquid sample valve—The insert weldment is part of the valve assembly. Move it out of the way. Disconnect the gang block fitting, which is also part of the valve assembly, from the flow module. Remove the flow module.

9. Use forceps to remove the liner and O-ring.
10. Disconnect the split vent trap.

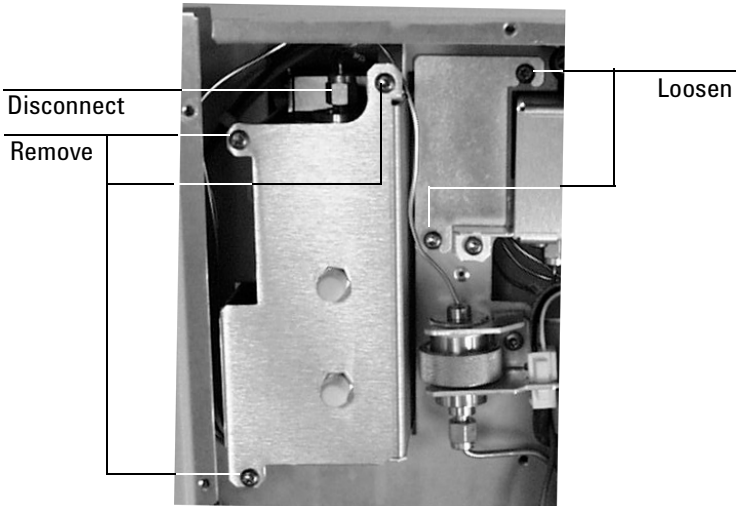


11. Trace the heater/sensor cable to the wiring harness connector. Disconnect it.
12. Remove the three screws holding the inlet body.
13. Lift the inlet assembly out of the lid. Remove the insulation in the hole under the inlet.

Removing a Purged Packed Inlet

1. Open the lid. Disconnect the column from the inlet.
2. Remove the insulation cup and insulation. Remove the bottom cover plate.
3. Close the lid.

4. Loosen the screws holding the connector cover plate next to the inlet flow module.



5. Slide the cover plate off and disconnect the cable from the flow module.
6. Disconnect the gas fitting on the rear of the flow module.
7. Remove the three screws on top of the flow module.
8. Trace the heater/sensor cable from the inlet to the wiring harness connector. Disconnect it.
9. Remove the three screws holding the inlet.
10. Lift the inlet and flow module out of the lid. Remove the insulation in the hole under the inlet.

Installing the Purged Packed Inlet

1. Place the bottom block insulation in the inlet hole.
2. Place the top block insulation in the hole. Align the long sides of the hole parallel to the sides of the lid.
3. Place the flow module in position. Secure it with three screws.
4. Lower the inlet into the block insulation. Secure the inlet with three screws.
5. Plug the flow module cable into its connector. Replace the connector cover plate and tighten the screws.

6. Connect the carrier supply line to the back of the flow module.
7. Connect the heater/sensor cable to the wiring harness.

Finishing Up

1. Discard the center plug in the bottom block insulation. Inside the oven, push the remaining ring over the bottom of the inlet. Force it up until the bottom cover plate can rest flush with the oven top. Secure the cover plate with two screws.
2. Install the cup insulation and the cup. Restore the column connection.
3. Restore carrier and other gases to the instrument.
4. Restore power.
5. Apply your normal operating pressures. Leak-check the flow module, back panel, and column fittings.

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Safety Symbols
Warnings in the manual or on the instrument must be observed during all phases of operation, service, and repair of this instrument. Failure to comply with these precautions violates safety standards of design and the intended use of the instrument. Agilent Technologies assumes no liability for the customer's failure to comply with these requirements.

In the manual
A warning calls attention to a condition or possible situation that could cause injury to the user.

A caution calls attention to a condition or possible situation that could damage or destroy the product or the user's work.

On the instrument


See accompanying instructions for more information.


Indicates a hot surface.


Indicates hazardous voltages.


Indicates earth (ground) terminal.


Indicates explosion hazard.


Indicates radioactivity hazard.


Indicates electrostatic discharge hazard.


Pinch hazard.

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