



Replacing the 6890 Split Vent Trap Assembly and/or Split Line

INSTRUMENT PREPARATION:

Turn off all heated zones on the 6890 GC and allow them to cool, as carrier flow will be interrupted during this procedure.

Note: If the column is connected to a Mass Spectral Detector, be sure the transfer line is cool. Venting is not necessary if the column is removed from the GC Injection Port and capped with a septum to prevent the flow of air into the MSD. Be sure to trim the column upon re-installation into the injection port.

After the instrument is cool, turn off the carrier gas pressure from the front keypad of the GC or at the gas supply. ***If using H₂ as a carrier gas, turn it off at the source.***

Turn off the main power switch on the GC and unplug it.

REMOVING THE COVERS:

Remove the back top cover from the GC. Squeeze both sides of the cover and pull up.

Remove the Oven Lid. Lift the lid to the vertical position and pull up on the right side, then remove the left side from the hole.

Remove the small cover over the injection port fan. There is one Torx screw on the right side, loosen and tilt the cover up and to the left for removal.

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If present, remove the Injector Tower post, the Autosampler Tray, and bracket. Depending on the age of the instrument, there will be 3 or 6 Torx screws.

Note: If you disconnect the injector(s) or tray, be sure the power is off to the GC or controller before disconnecting or reconnecting.

Remove the blue cover over the injection ports, if present. There would be 6 Torx screws.

REPLACING THE SPLIT VENT TRAP:

For GCs manufactured before May 1997, the pencil type split vent trap (part no. G1544-80550) for EPC units can be replaced or upgraded to the higher capacity Replacement Split Vent Trap kit, part no. G1544-60610. The new style split vent trap uses a replaceable filter cartridge, which is sold in a package of 2 (part no. G1544-80530). To replace the filter cartridge in the trap, see “Replacing the split vent trap cartridge” below.

Disconnect the spit line from the inlet assembly. Clean the “snout” of the injection port with cotton swabs and methanol (where the split line was connected to the inlet assembly). If necessary, the split line can be replaced (P/N G1544-20620 or a length of CLEAN 1/8” copper tubing).

Replace the split vent trap according to the type of assembly on your GC. The two types are pictured below.

It is a good idea to [leak test](#) the inlet at this point to verify the installation.

Reassemble the cover, reinstall the column (if it was removed), restore power and gases. Allow the gases to completely flush the system of any air before turning on the heated zones (approximately 30 minutes to one hour). Verify the instrument condition by running one or more blank runs before returning to operation.

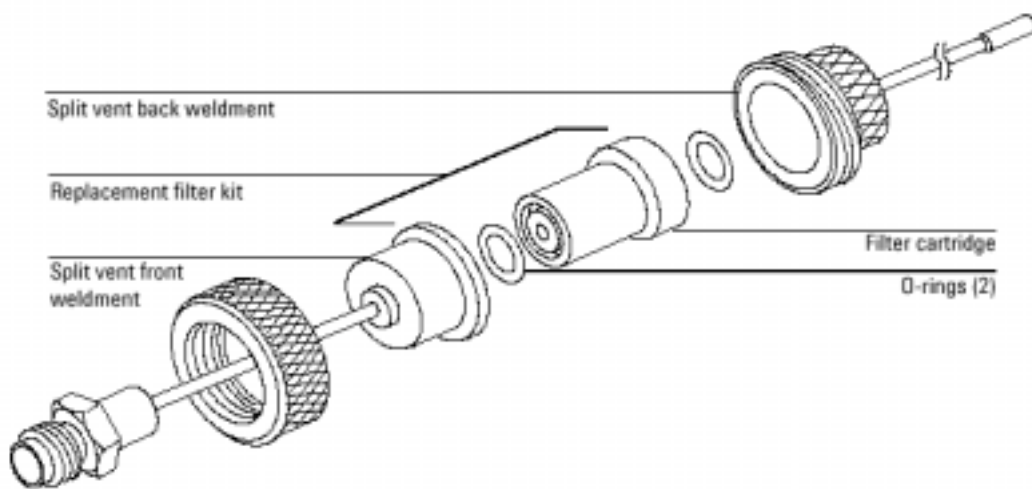


Figure 210-9 Replacement split vent filter trap kit, part no. G1544-60610

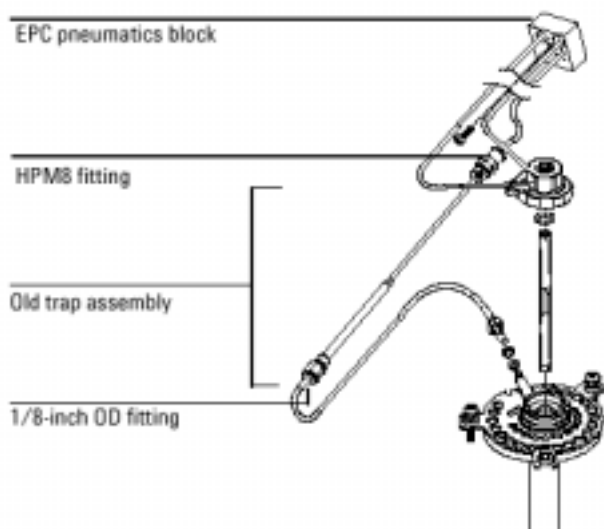


Figure 210-10 EPC manifold configuration

REPLACING THE SPLIT VENT TRAP CARTRIDGE:

1. Turn off the inlet and the oven and allow to cool.
2. Set all GC flows to zero.
3. Remove the pneumatics covers.
4. Lift the filter trap assembly from the mounting bracket and unscrew the filter trap assembly.
5. Remove the old filter cartridge and O-rings and replace them.
6. Reassemble the trap.