

Replacing the Polishing filter

June 2020

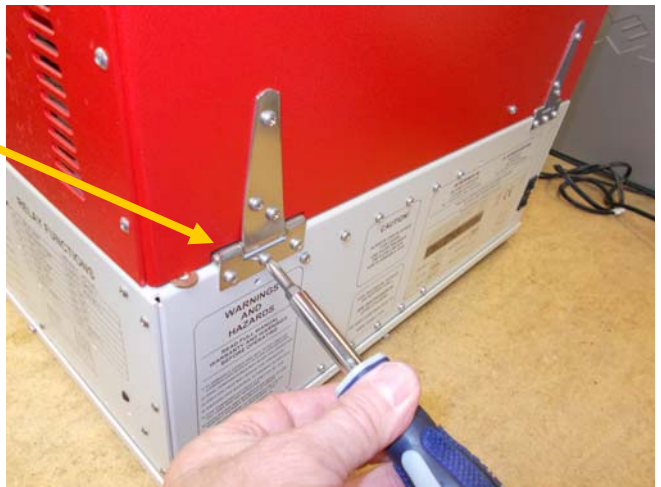
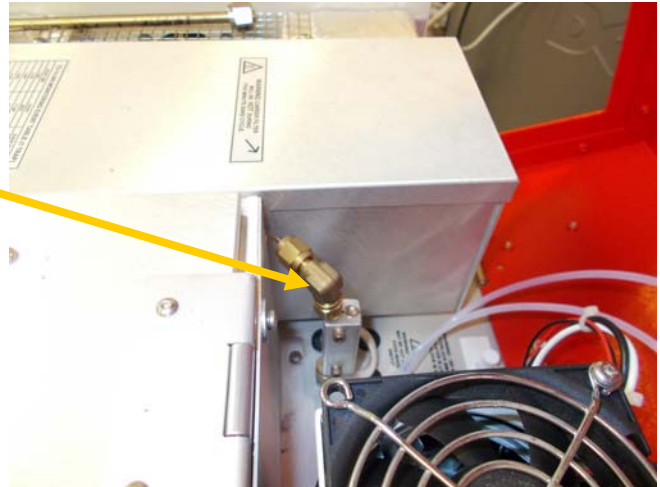
The polishing filter is located just behind the column oven.

Normally the polishing filter is a 3 1/8" long 1/8" OD stainless steel tube filled with molecular sieve. Its purpose is to catch any high boiling impurities in the carrier gas.

Sometimes it may be necessary to replace this filter if it gets plugged or if you want to substitute an empty tube to allow for higher split ratios with a split type injection.

Its easiest to access the polishing filter if you remove the GC's red lid.

There are 8 screws altogether to remove from the lid support and the two hinges.



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The polishing filter is connected with 1/8" Swagelok nuts and ferrules.

Use two 7/16" wrenches to remove the brass elbow fitting at the top of the filter.

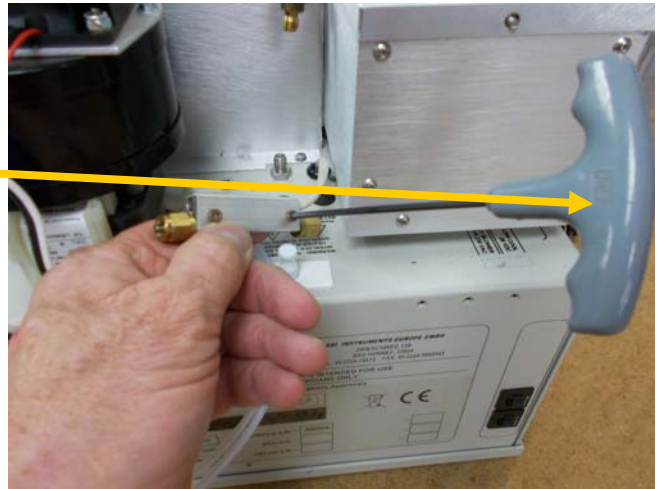
Loosen the nut at the bottom.



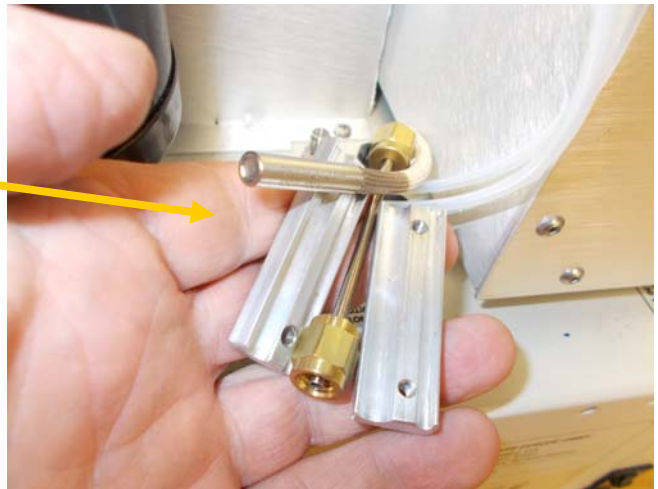
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Use a 7/64" hex wrench to loosen the two hex head screws clamping the aluminum clamshell holding the filter and the heater cartridge.



This is what the clamshell looks like after the two hex head screws are removed.



Install the new packed or empty filter tube in place of the original and re-assemble the GC.

Stainless steel is the preferred tubing type as the filter will get hot if the bake-out switch on the front of the GC is activated.

Copper is also OK to use. The tube should be 3 1/8" long.

