

Installation of the Whisper Quiet Built-in Air compressor in the SRI 8610C/310C GC

SRI part# 8690-0070 (120voltsAC)
Part#8690-2270 (230voltsAC)

Includes the following parts:

Air compressor

Filter/silicone connecting tubing

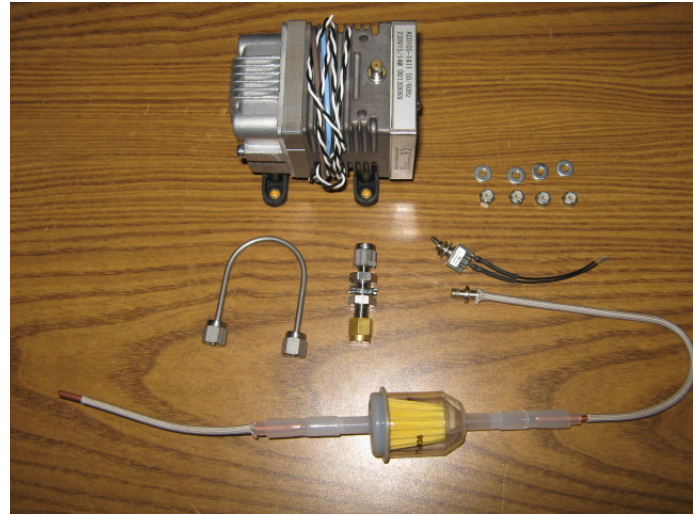
Copper tubing with welded fitting

Tubing jumper

1/8" bulkhead fitting

Switch with wire leads

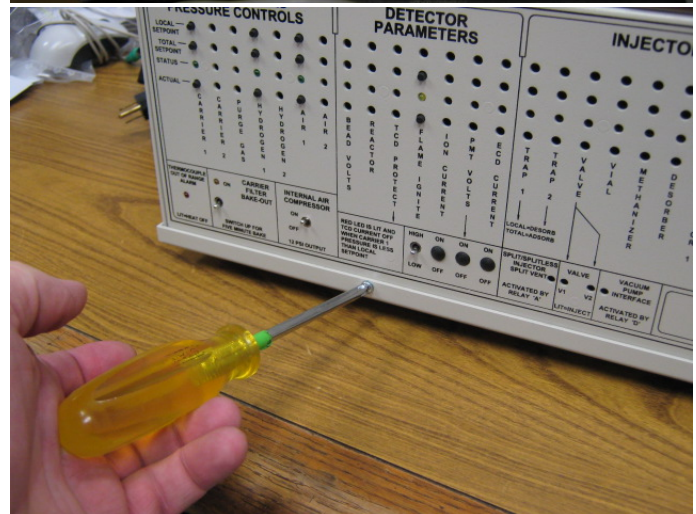
(4) Nuts and flat washers



Check the label on the air compressor to make sure it is the correct voltage. The photo shows a 230voltAC air compressor



Remove the six Phillips head screws which hold the bottom plate of the GC.

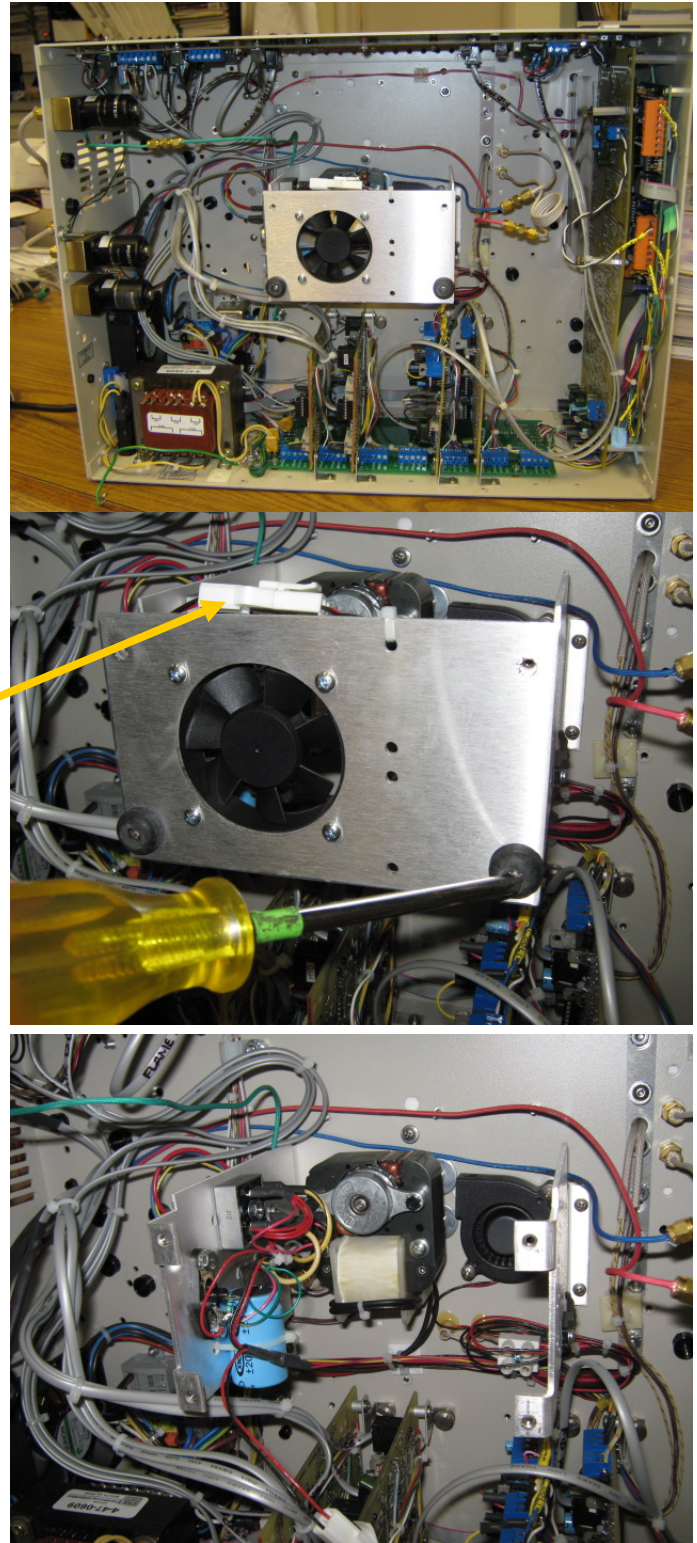


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Tilt the GC on its back so you can access the inside of the GC chassis.

Remove the four screws holding the cooling fan. Unclip the white connector.

The inside of the GC is now accessible.

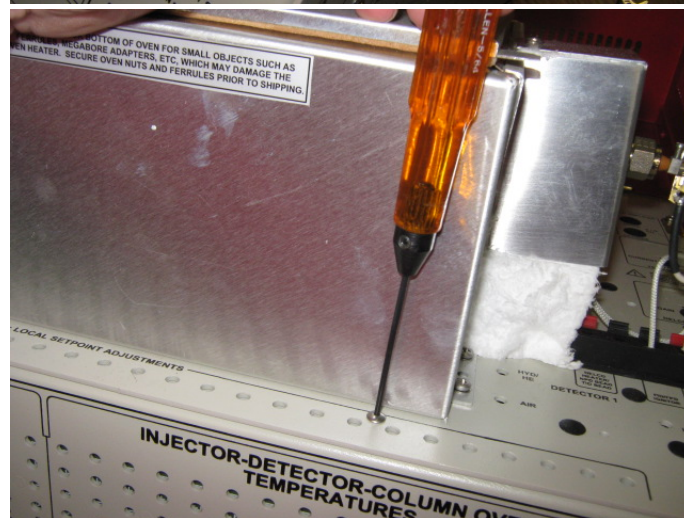
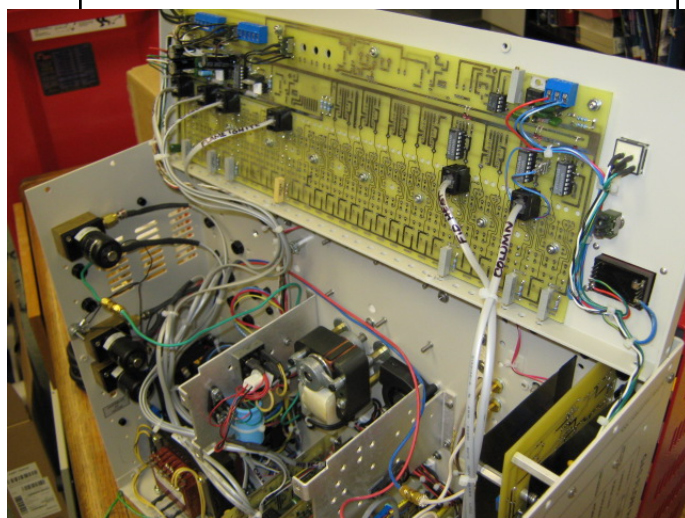
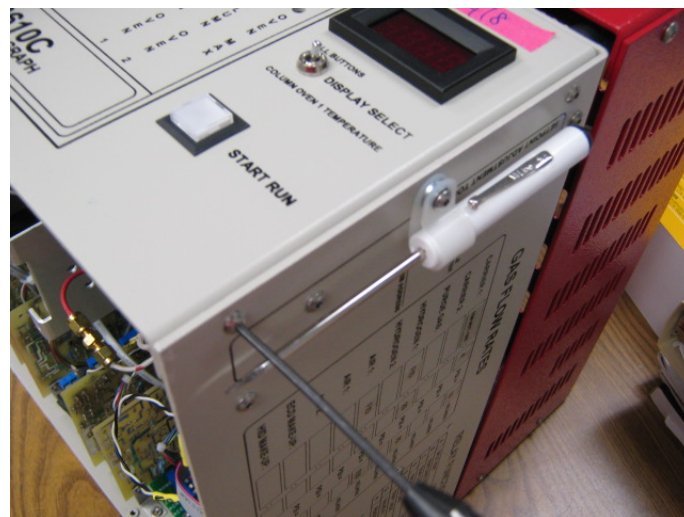


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Remove the eight hex head screws from around the front panel of the GC. The hex wrench size is 5/64inch.

Remove the two Phillips head screws which hold the rubber bumpers at the front corner of the chassis.

The front panel of the GC can then be flipped up. Do not disconnect any wires.

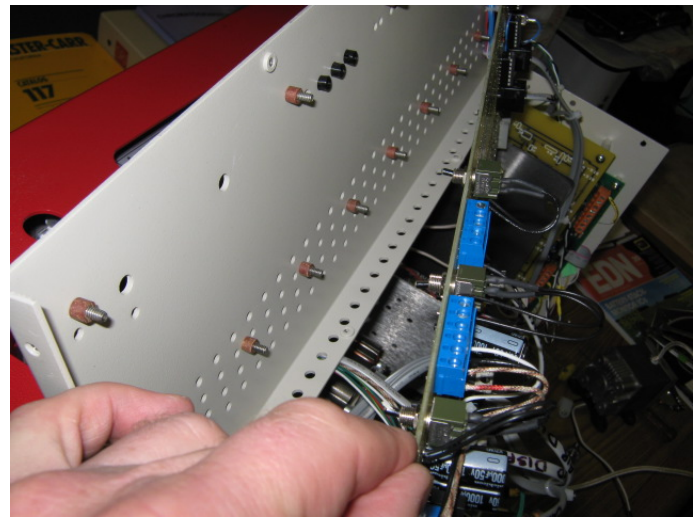
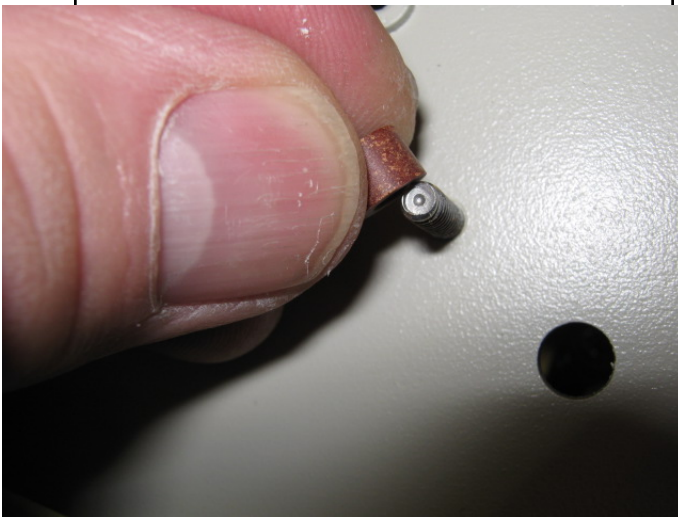
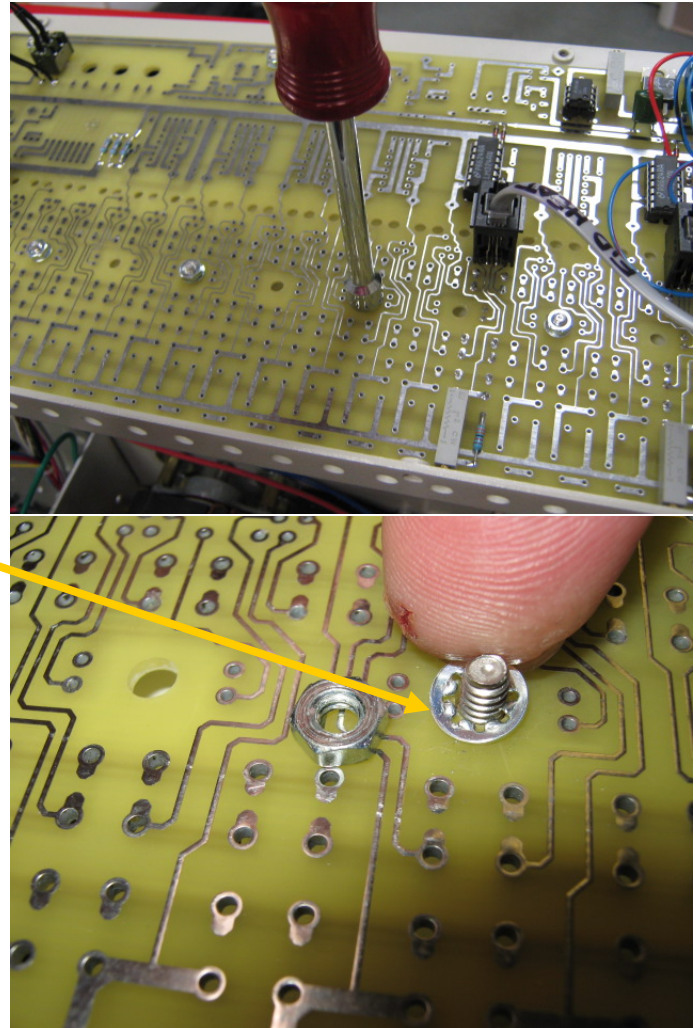


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Remove the twelve 1/4inch nuts and lockwashers holding the display board to the front panel.

Be careful not to lose the lockwashers or let them fall into the GC. After you remove the nut you may have to lift the lockwasher with your fingernail.

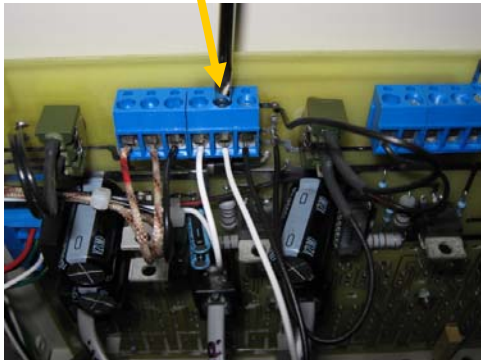
Pull the display board slightly away from the display board. Be careful not to lose the fiber spacers which will fall off the studs easily if you allow the front panel to fall.



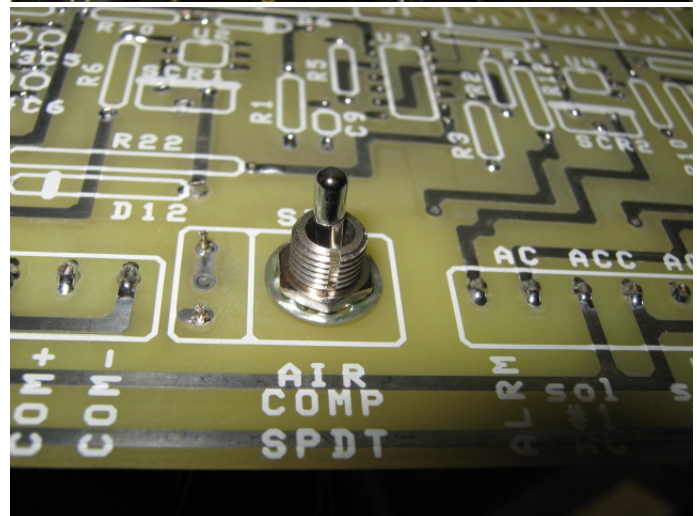
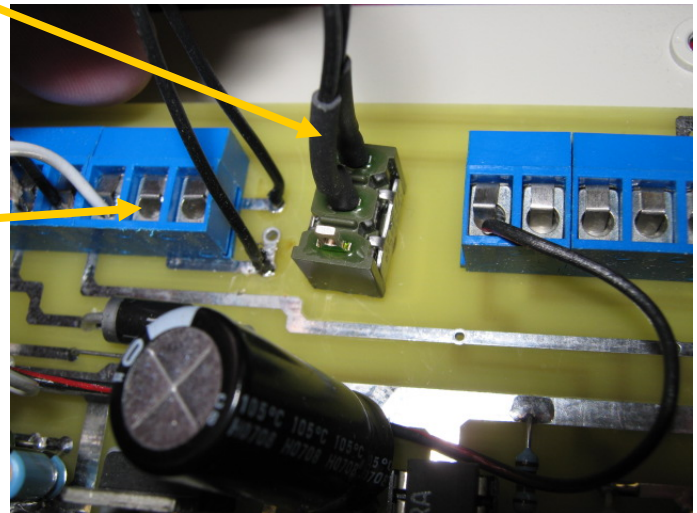
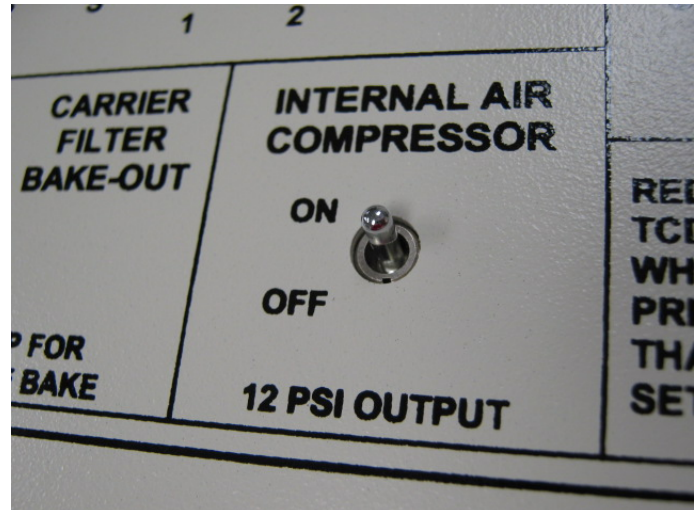
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Install the air compressor on/off switch in the circuit board location immediately behind the hole in the front panel.

Solder the two wires from the switch to the two holes adjacent to the switch as shown. The two wires from the air compressor itself are connected into the two screw terminals immediately to the left of the switch.

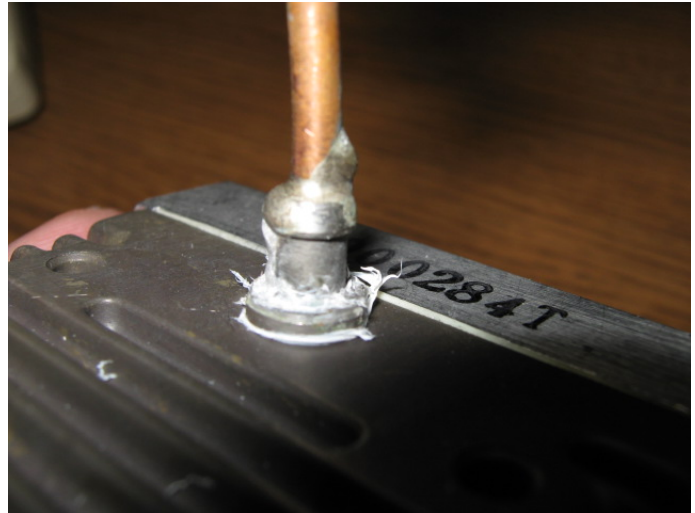


Secure the switch in the circuit board with the nut and lockwasher.

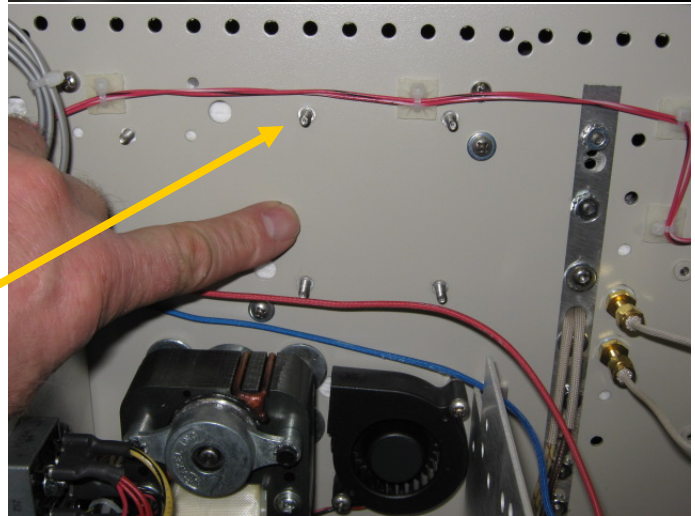


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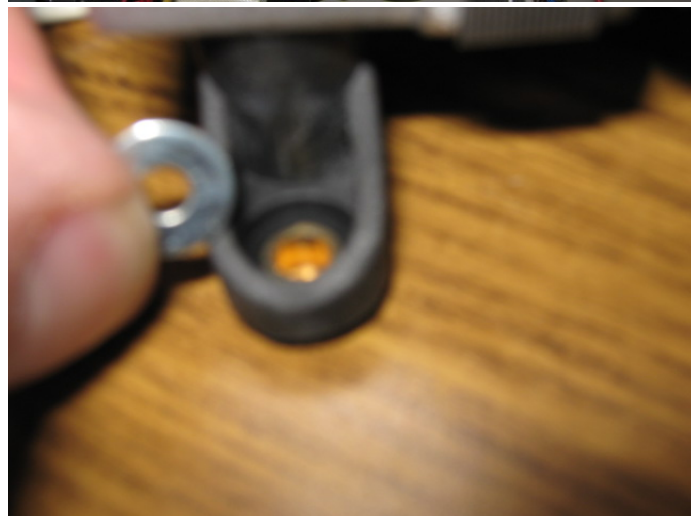
If it is not already connected remove the air compressor outlet fitting and replace with the fitting to which the copper tubing is welded.



Locate the four studs which are pre-installed in the chassis. The studs line up with the rubber feet of the air compressor.



Place a flat washer in the recess in each of the air compressor's feet.

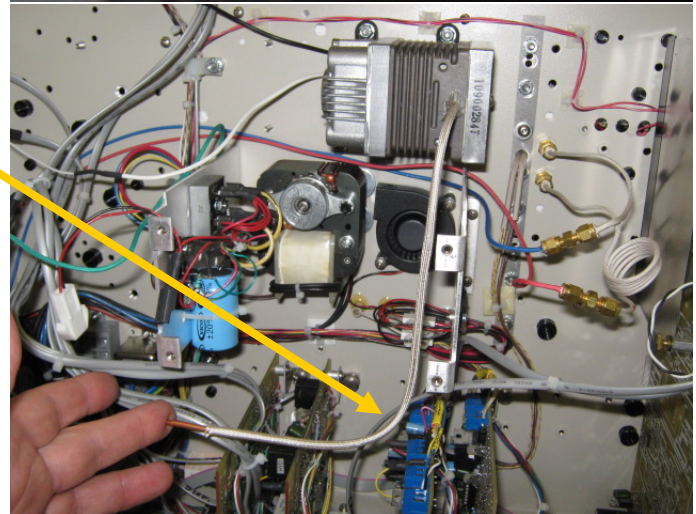
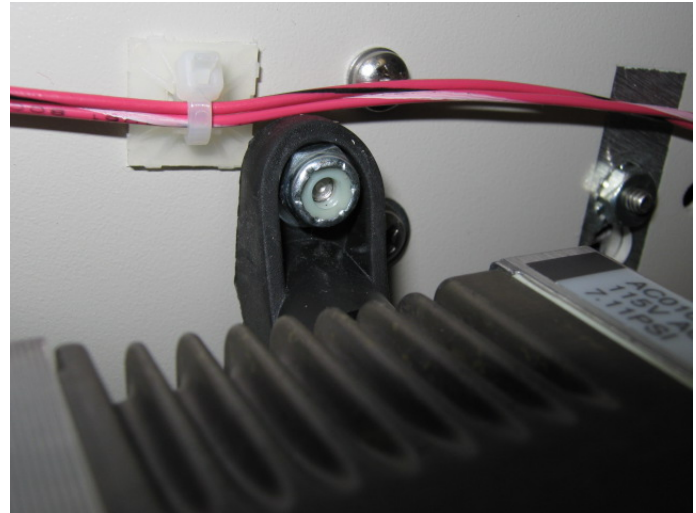


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Use a nut driver or small socket wrench to tighten the four lock nuts (nut with nylon inserts in the nut). Tighten the lock nuts snug but not so tight that the rubber foot of the air compressor is squished. The idea is that the air compressor feet will be secure but loose and flexible so the vibration of the air compressor is not transmitted to the chassis.

When the air compressor is in place it should look like the photo. Bend the copper tubing as necessary so the tubing does not touch anything.

Tighten the 1/8 inch bulkhead fitting in the hole marked AIR OUT. Be sure to use a lockwasher on both sides of the chassis to prevent the bulkhead fitting from rotating.



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Connect the copper tubing from the filter to the bulkhead fitting on the inside of the chassis.



Adjust the filter and tubing so it does not touch any other parts inside the GC.

Connect the jumper tubing between the AIR OUT bulkhead fitting and the AIR inlet fitting. This connects the output of the air compressor to the inlet of the air electronic pressure controller (EPC).

Test the system by turning the air compressor switch on to verify that the air EPC works normally.

The air compressor has a maximum pressure of 12psi.

