

# H2-40 Hydrogen Generator Field Update 11-7-2007

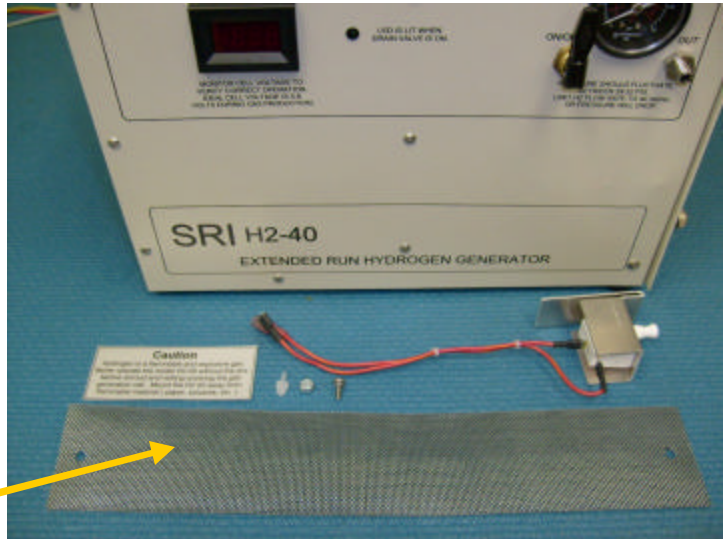
This field update is intended to provide extra protection in the event the H2 generation cell fractures or cracks. Please add the additional parts to your H2-40 as soon as possible. Please take a digital photo of the installation once you have completed it and send the photo to **H240@srigc.com**.

The upgrade parts kit contains:

- 1) Stainless steel mesh
- 2) Small screw and locknut
- 3) Interlock switch and bracket
- 4) Plastic barb fitting
- 5) Caution label

Unplug the H2-40 and vent the pressure. Then remove the cover by unscrewing the 3 knurled screws.

The hydrogen generation cell is located here



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Remove the red tube from the top of the cell.



Remove the white tube also.

The Nylon fittings holding the tubes should be finger-tight, but if you have to use a wrench, be sure to use two wrenches so the fitting itself does not turn. If the fitting turns it will break the seal and may subsequently leak.

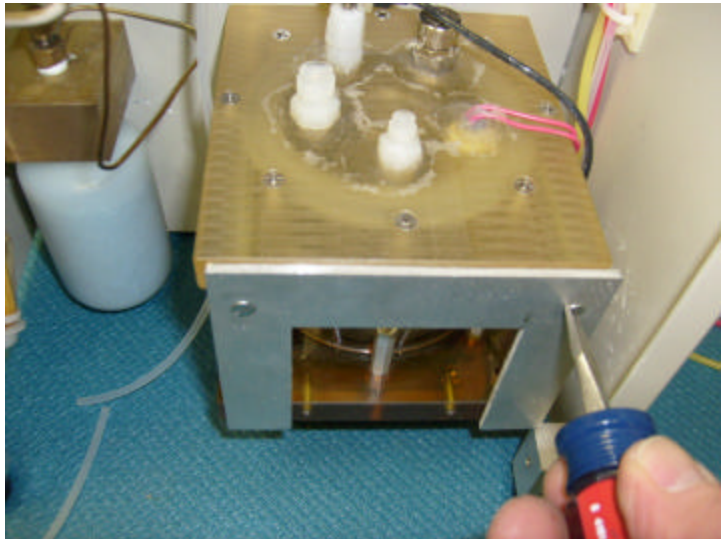


Remove the two clear silicone tubes from the lower left of the cell. These tubes just pull off the barb fitting with finger pressure.



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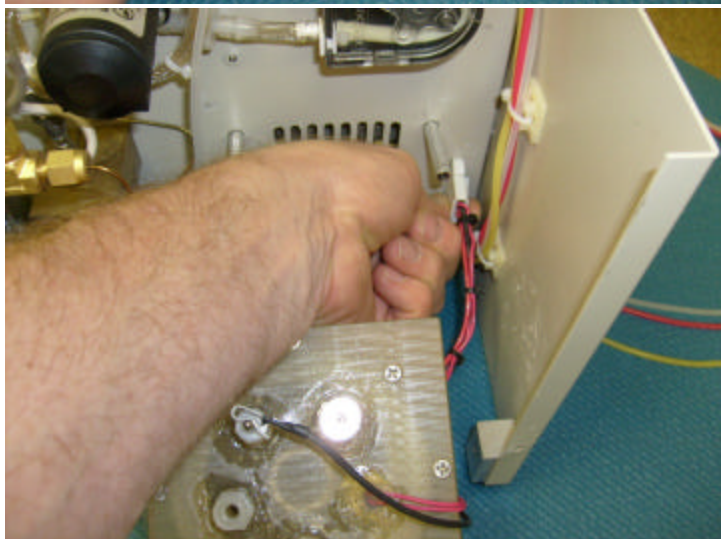
Remove the two screws holding the u-shaped mounting bracket.



This bracket clamps the cell to the chassis.



Unplug the white connector in the far corner. If you squeeze the plug from the right side it will un-latch and release.

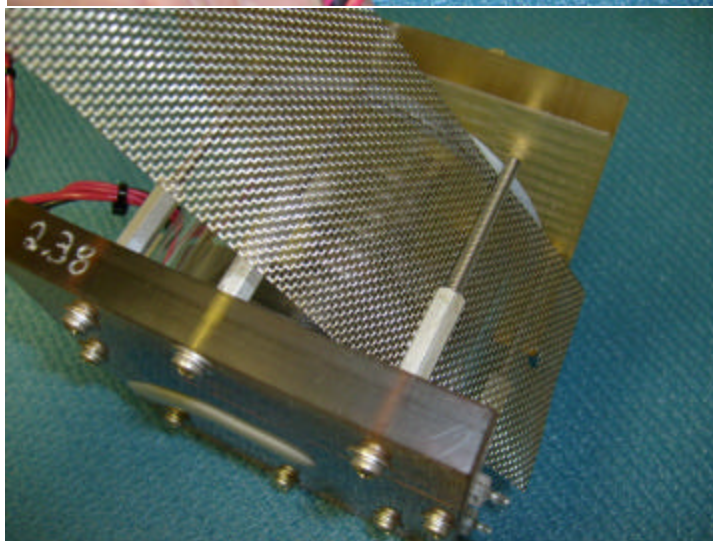
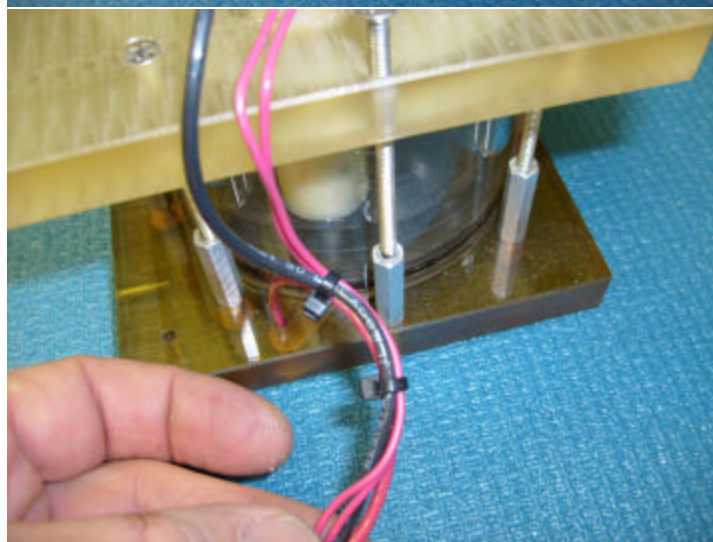
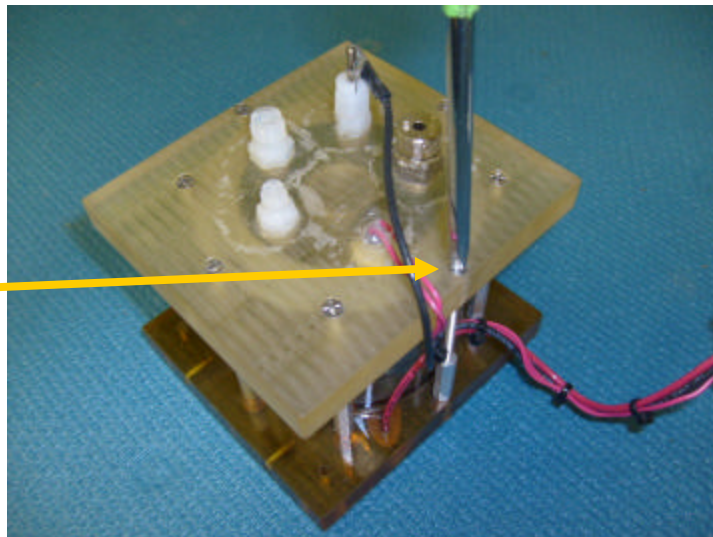


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Loosen the clamping screw at the 3 o'clock position.

Move the wires to the outside of the screw and then tighten the screw back up to the same tightness as it was previously.

Starting at the rear of the cell, slide the stainless steel mesh between the glass cylinder and the 8 clamping screws.

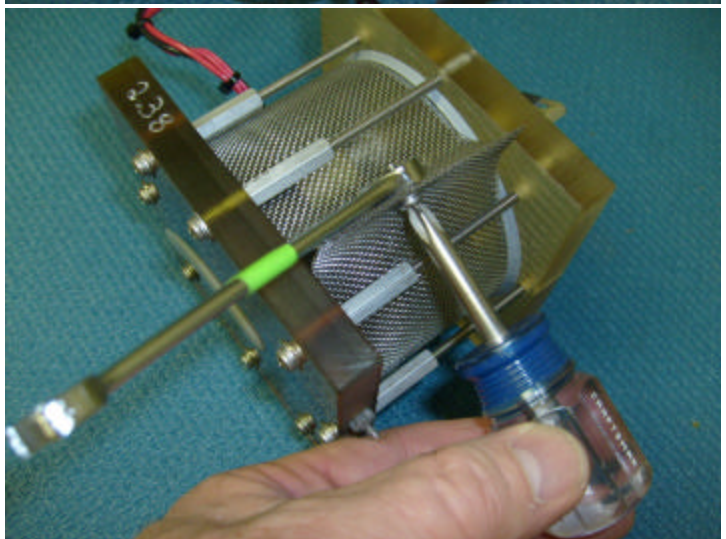
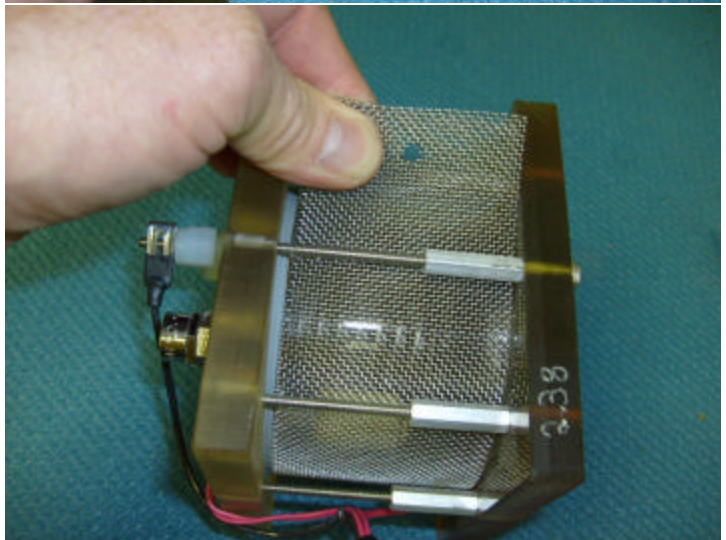
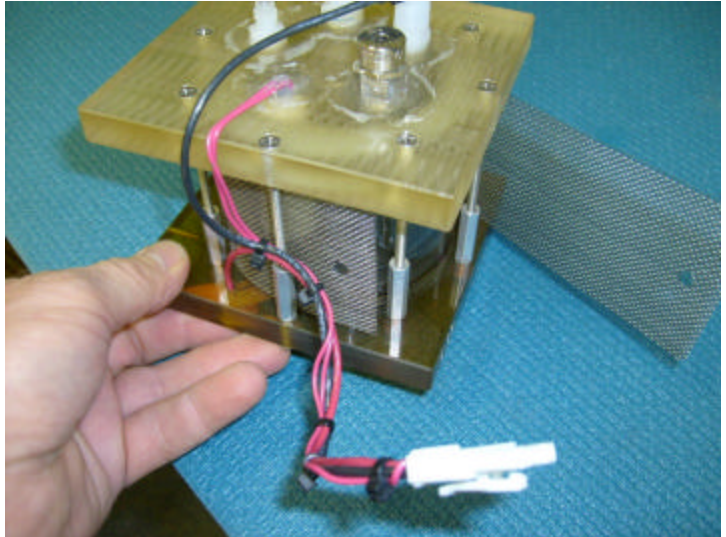


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Work the mesh all the way around.  
You can see why we had to move  
the wires ( to provide clearance for  
the mesh ).

Line up the pre-drilled holes in the  
mesh at the back of the cell.

Use a wrench and screwdriver to  
tighten the screw and locknut.

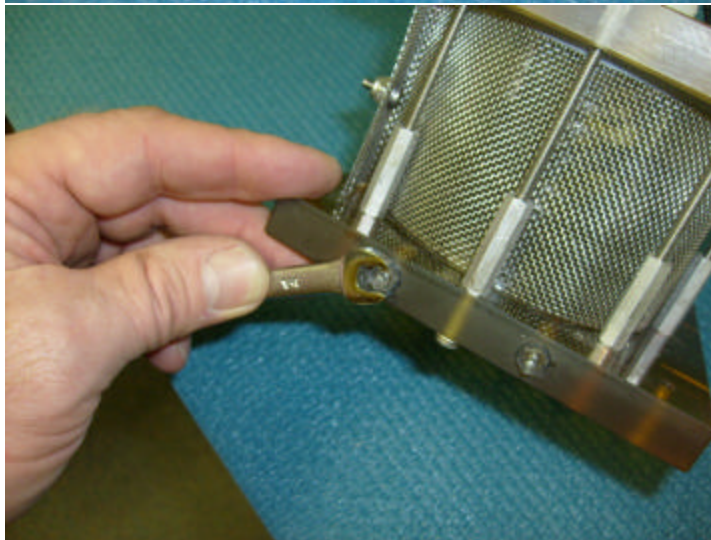
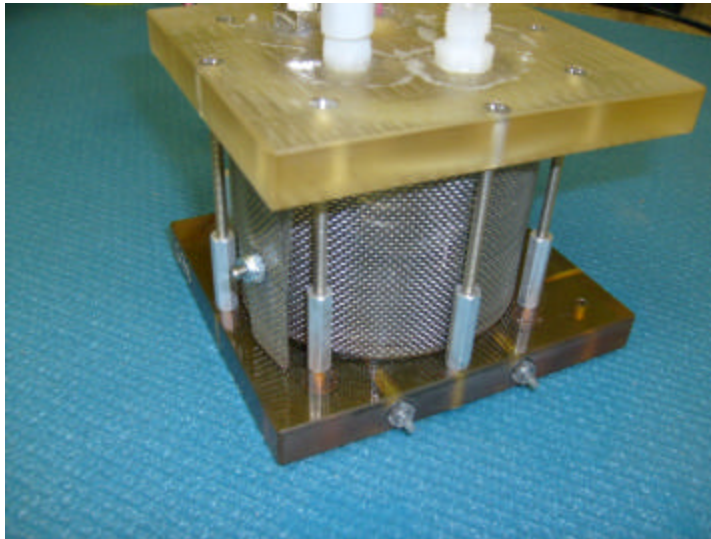


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Fold the mesh so it lays flat against the cylinder.

Remove and replace the rear barb fitting. This fitting can get brittle from the oxygen exiting the cell and needs to be replaced periodically.

Transfer the black neoprene o-ring from the old barb fitting to the new one. Re-install the barb fitting just until the o-ring compresses against the sealing surface. Do not over-tighten the fitting. It's helpful to lubricate the threads with a little WD-40 ( penetrating oil ) first.



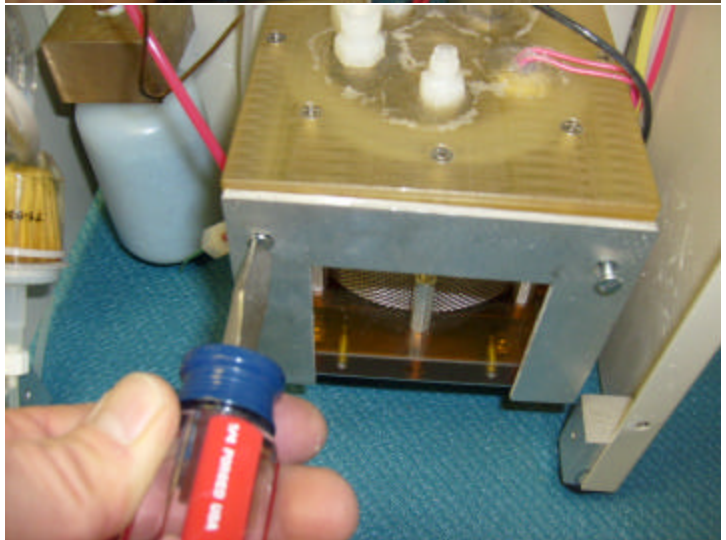
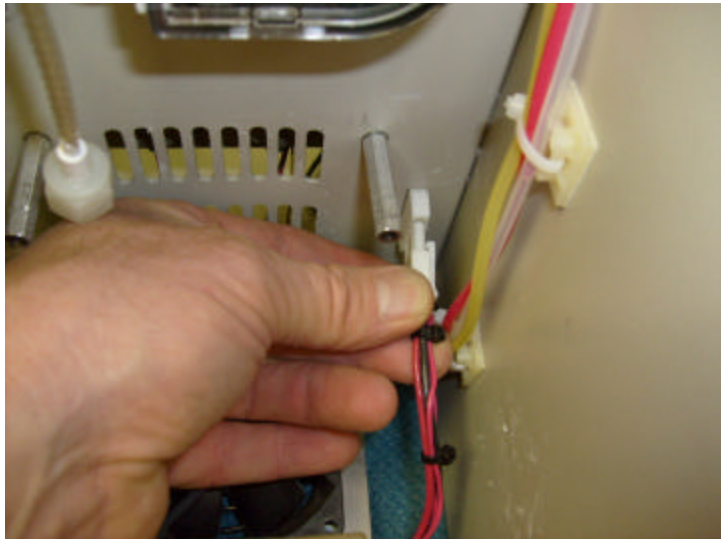
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Plug the cell back in.

Clamp the cell to the chassis. Be careful not to pinch any tubes between the cell and the chassis wall.

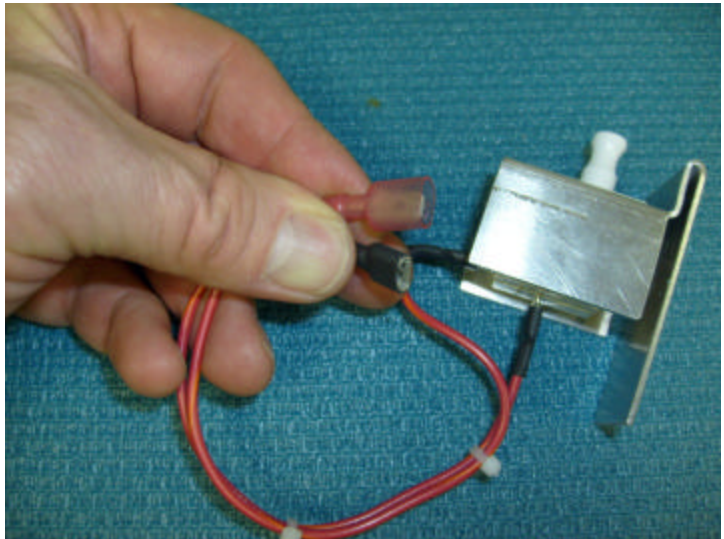
Re-attach the red and white tubes to the fittings on the top of the cell. Finger-tight should be enough to make a good seal, but if you use a wrench, always use two wrenches so you don't turn the fitting itself

Also re-attach the clear silicone tubes to the barb fittings on the lower left of the cell.



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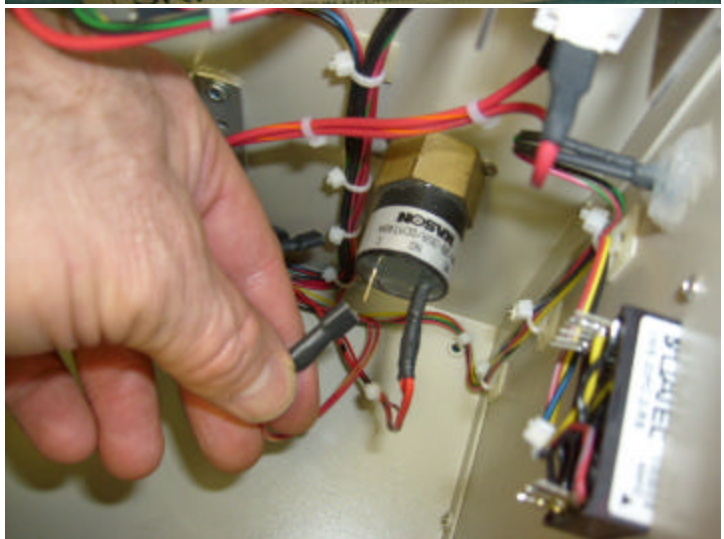
The interlock switch has two wires attached. One wire has a male connector, the other wire has a female connector.



Slip the interlock switch and bracket over the top of the sheet metal divider inside the H240.



Remove one of the female connectors from the pressure switch ( it does not matter which one you remove ).



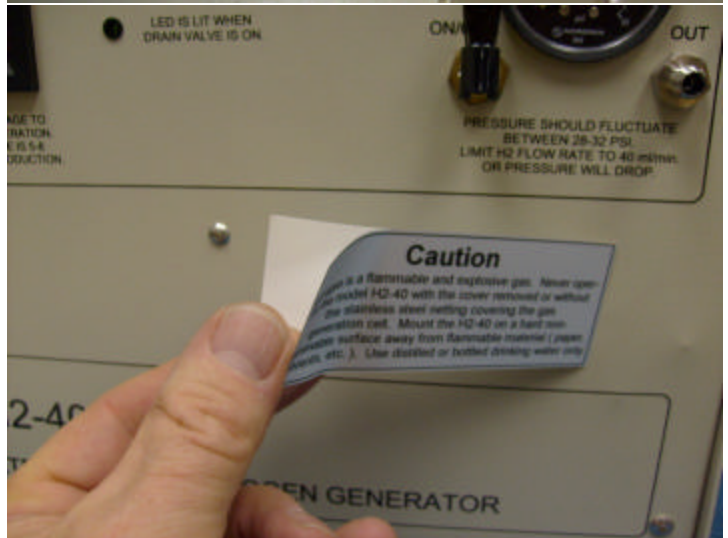
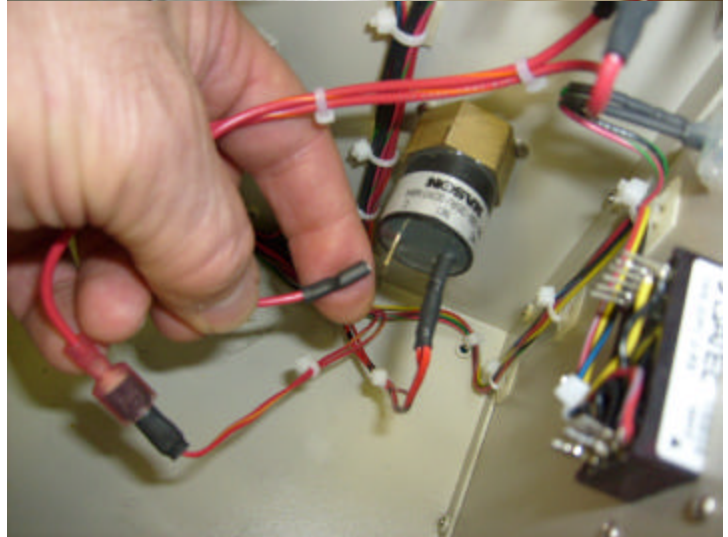
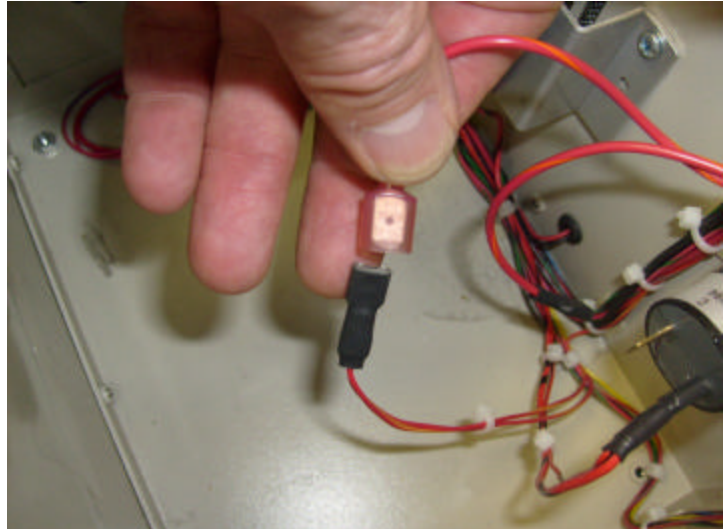


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Connect the male connector from the interlock switch to the female connector you just removed from the pressure switch.

Connect the female connector from the interlock switch to the male terminal on the pressure switch.

Peel the backing off the self-adhesive Caution label and affix it to the H2-40 just below the pressure gauge.



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Replace the cover and plug in the power. The cover will actuate the interlock switch when it is in place. Always tighten the 3 knurled screws so the cover is secure.

With the toggle valve closed allow the H2-40 to build up pressure. The pressure gauge should stop at 32-34psi.

Un-plug the power cord to check for leaks. If the system is leak free the pressure gauge will remain at 32 psi for hours or days. If there is a leak, the gauge will gradually drop.

**Don't forget to e-mail a digital photo of this installation to:  
[H240@srigc.com](mailto:H240@srigc.com)**

