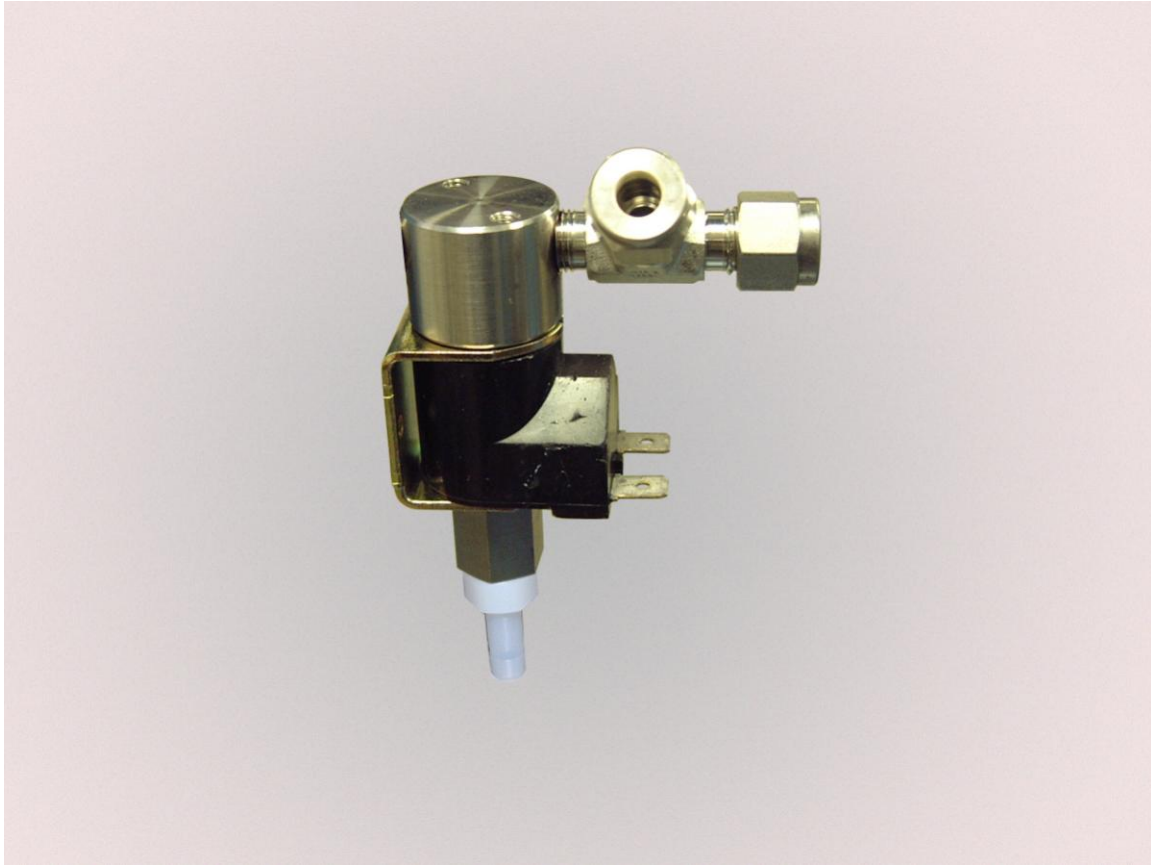


Humidity Generation and Calibration Equipment

**THUNDER SCIENTIFIC**  
**CORPORATION** THE HUMIDITY SOURCE

## *Model 2500*

### Pressure Bleed Solenoid 3 Cleaning Procedure



Tech Support Document TSD-0228  
Revision Date: November 5, 2009



## Cleaning the Pressure bleed solenoid 3 procedure

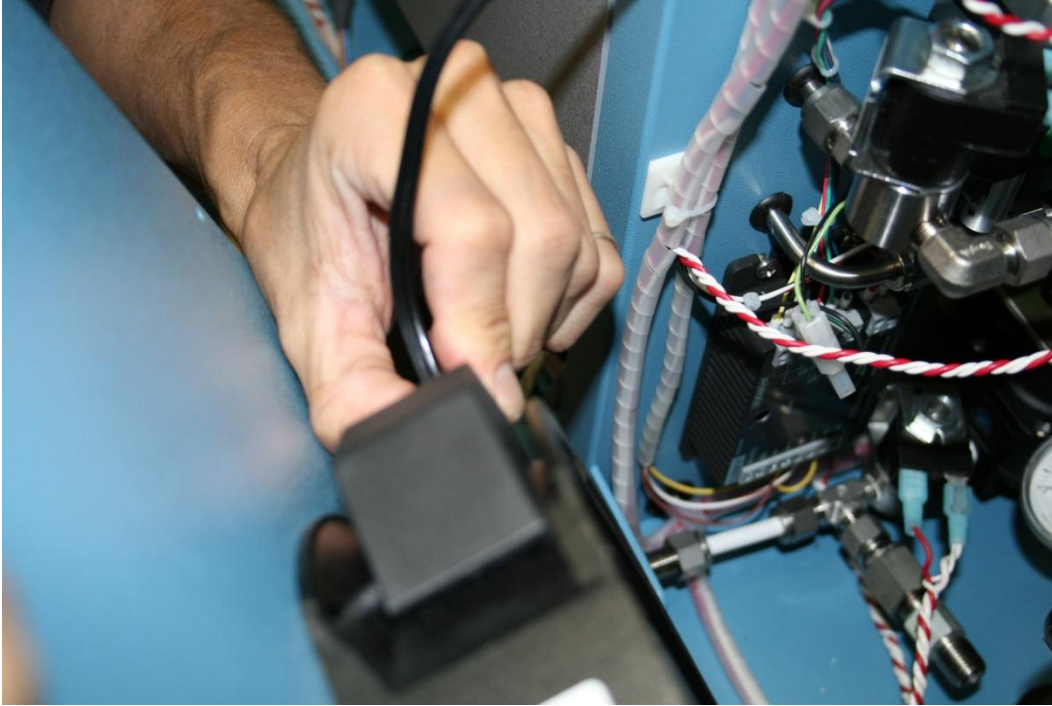
1. Disconnect the main power cable on the rear panel as well as the air in elbow.



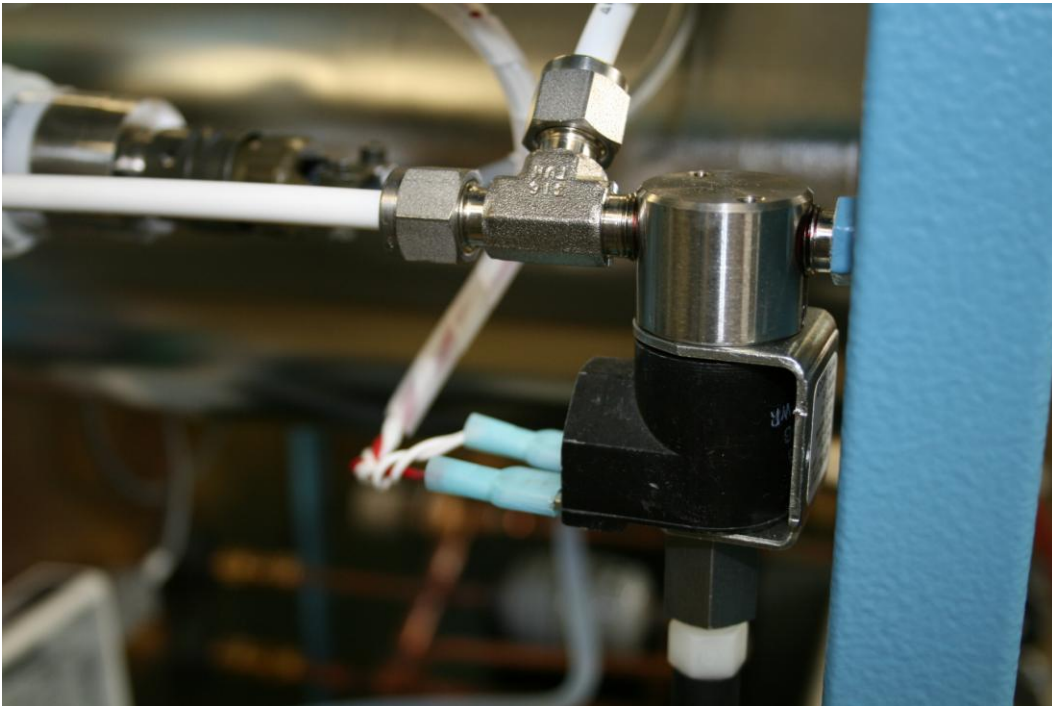
2. Remove the rear panel screws using the Torx drive provided.



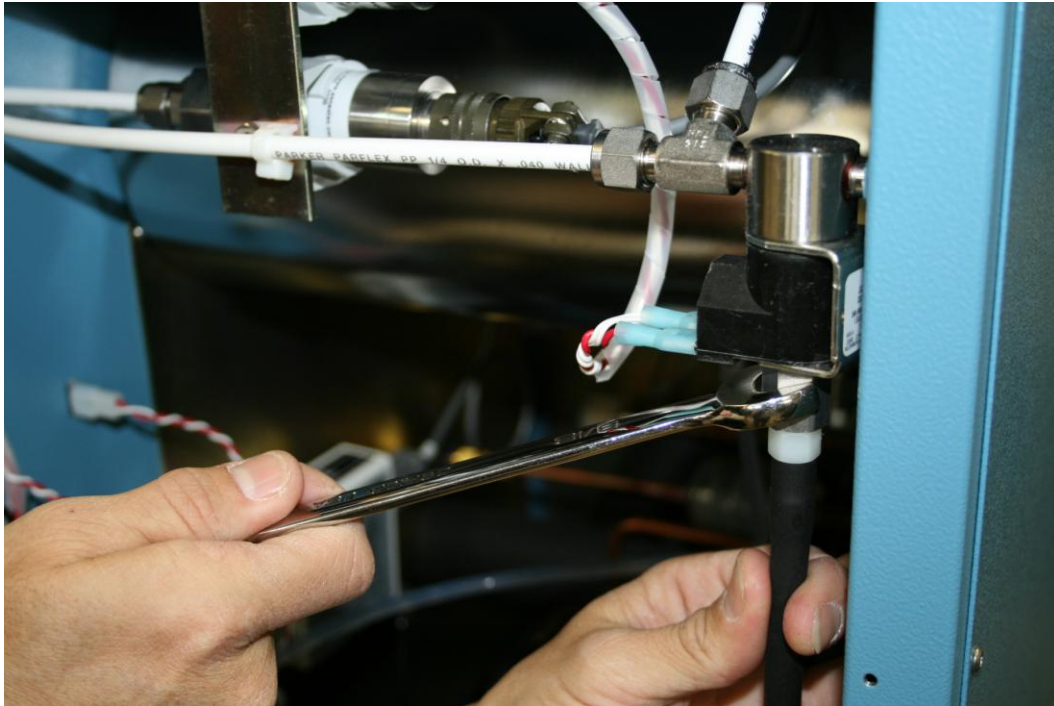
3. Hold the rear panel upright and remove the fan power cord.



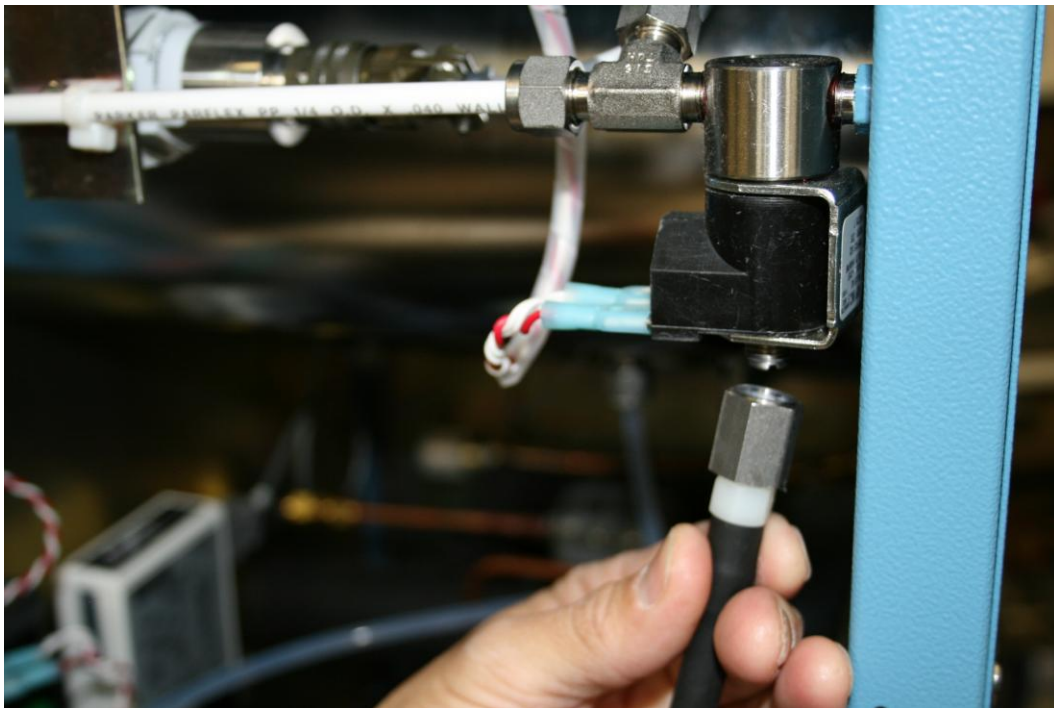
4. Locate the pressure bleed solenoid 3 at the top rear right hand corner of the system.



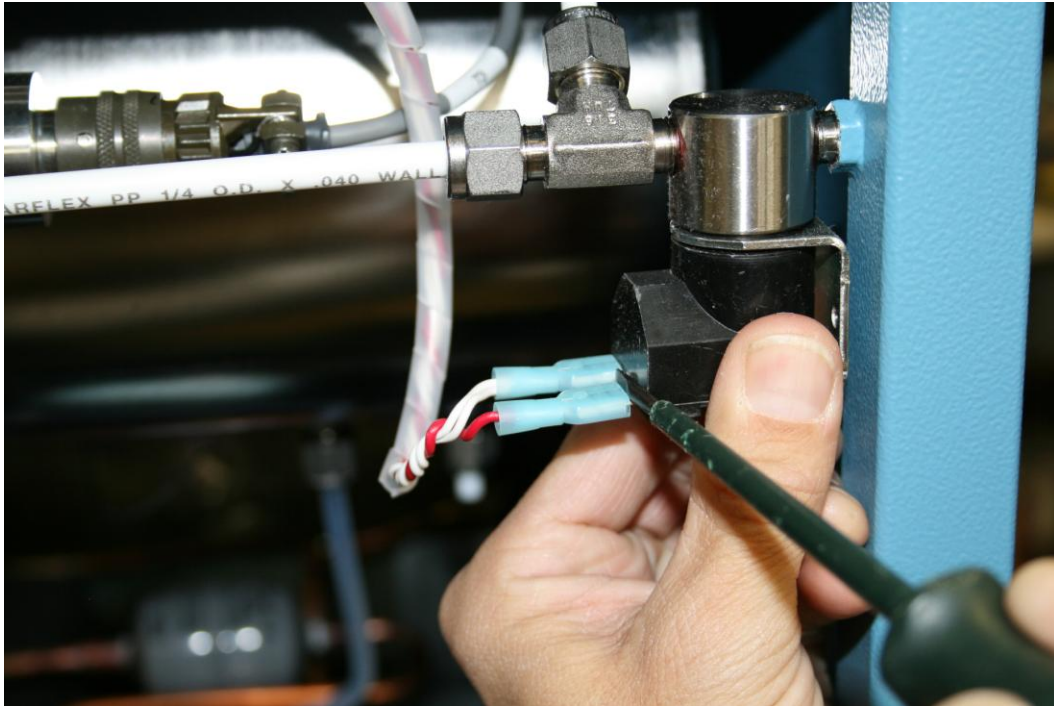
5. Take a 9/16" wrench and remove the bleed hose fitting at the bottom of the valve.



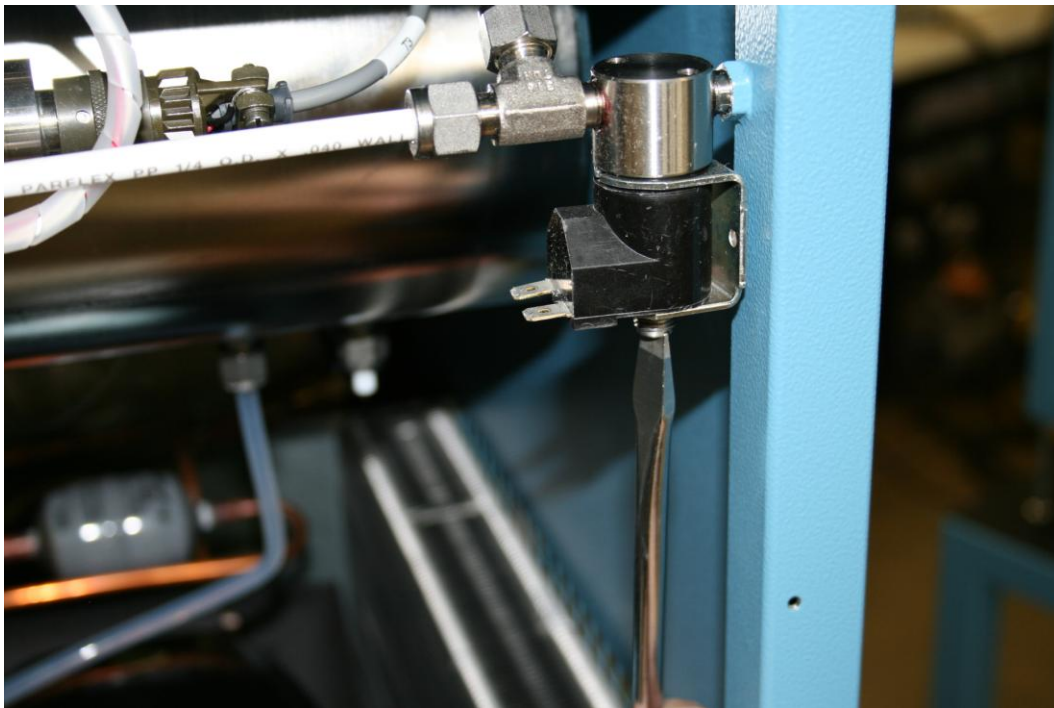
6. Remove the hose.



7. Next take a small flathead screwdriver and remove the wire leads.



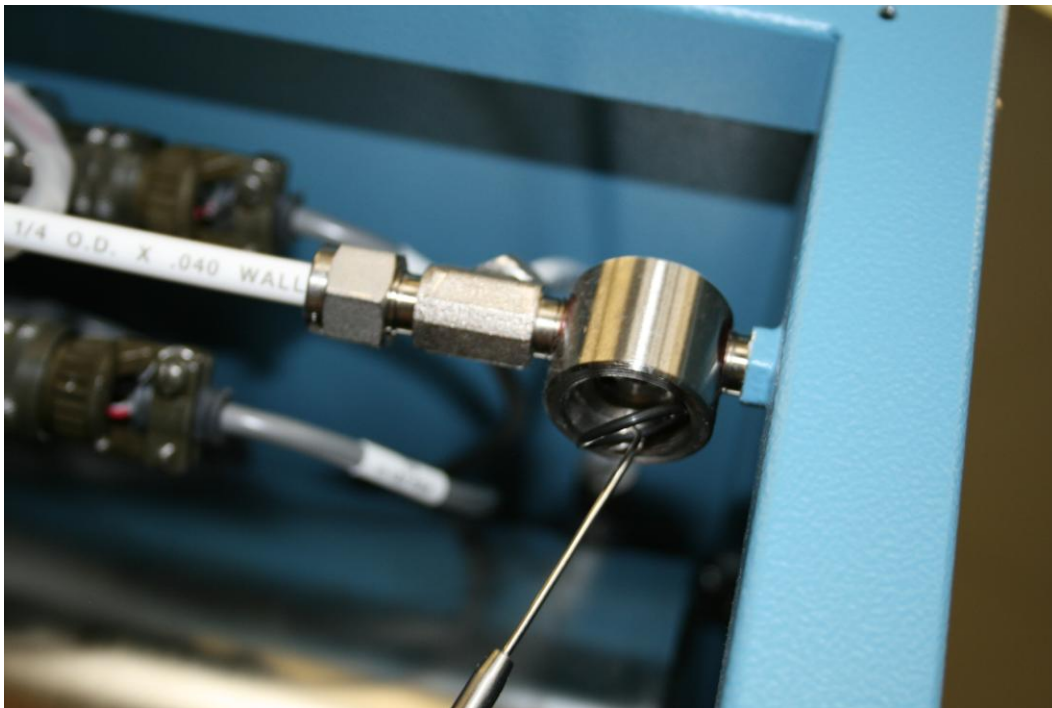
8. Using a large flathead screwdriver, remove the valve coil.



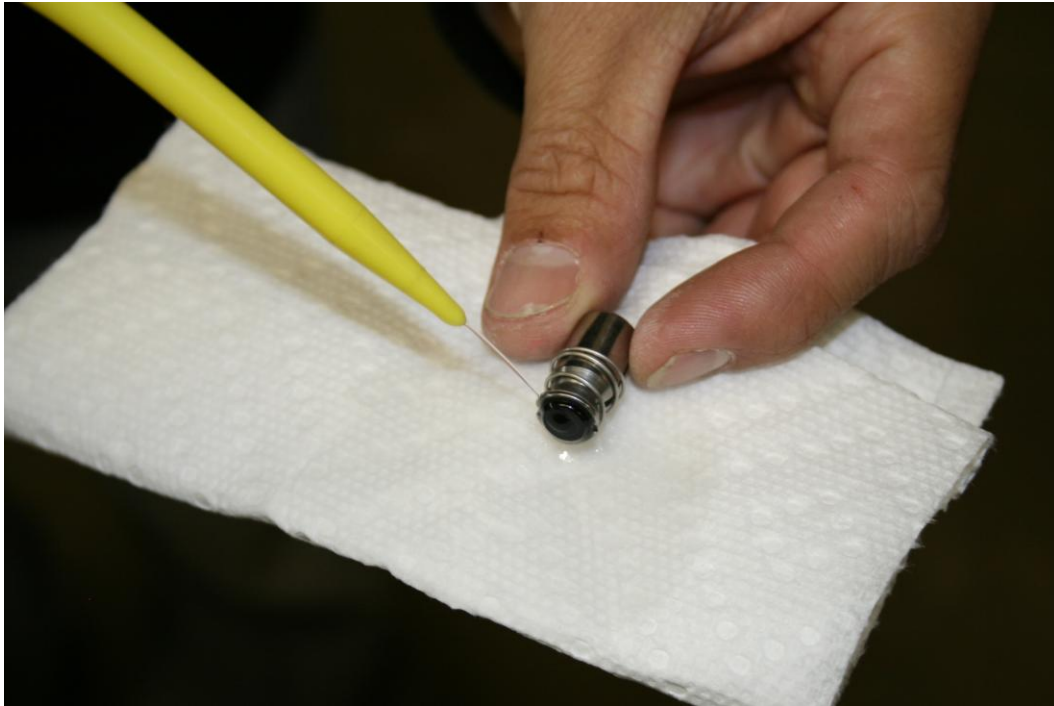
9. Remove the coil from the valve body.



10. Inside the valve body is an o-ring, remove it carefully.



11. Using alcohol, pour some on the valve coil plug and spring from the coil housing.



12. Wipe it clean with a swab.



13. Clean the other side of the coil plug with alcohol and a swab.



14. Insert the other end of the swab in the center of the plug and push the rubber stop and make sure it moves freely.



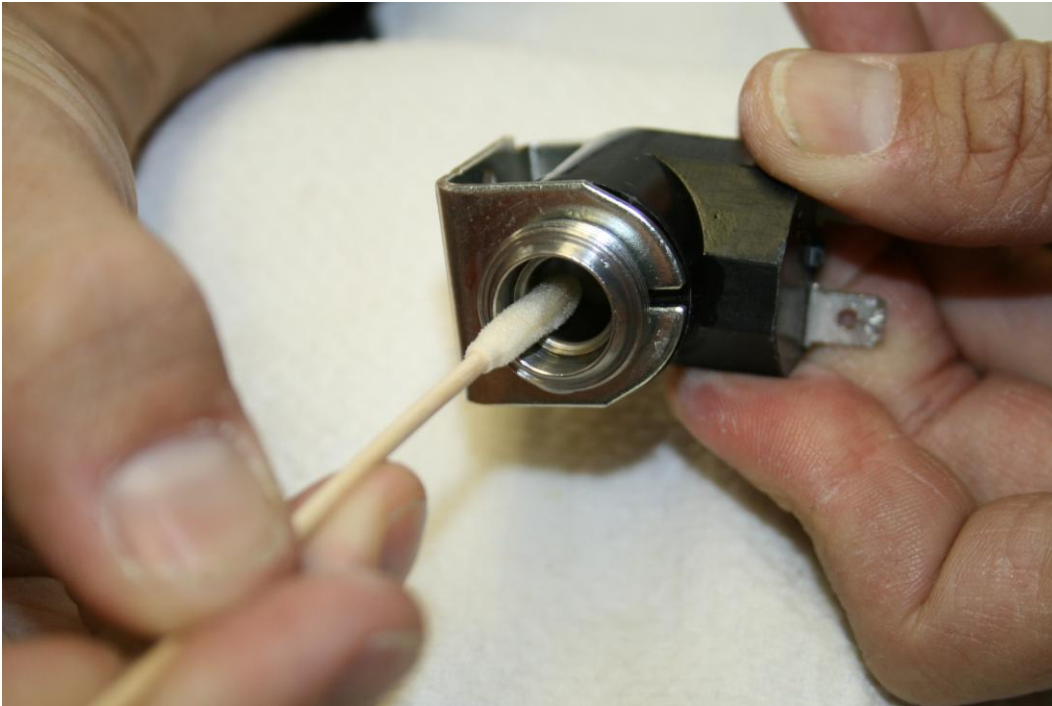
15. Make sure there's no debris on the spring, if there is, clean with alcohol.



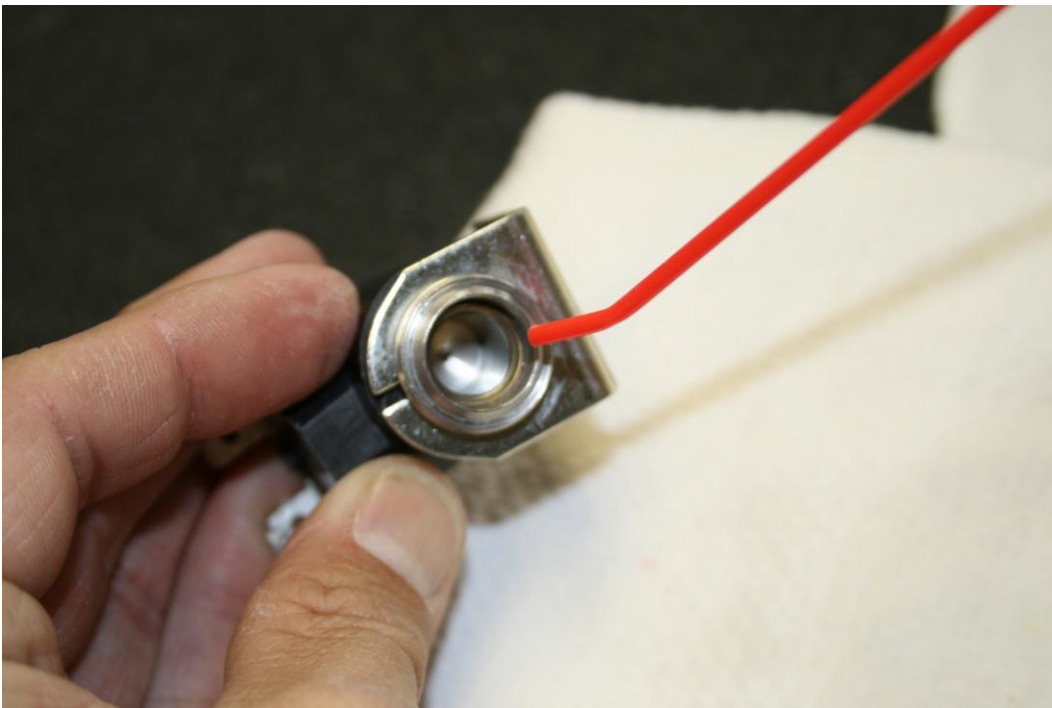
16. Clean inside the coil housing with alcohol.



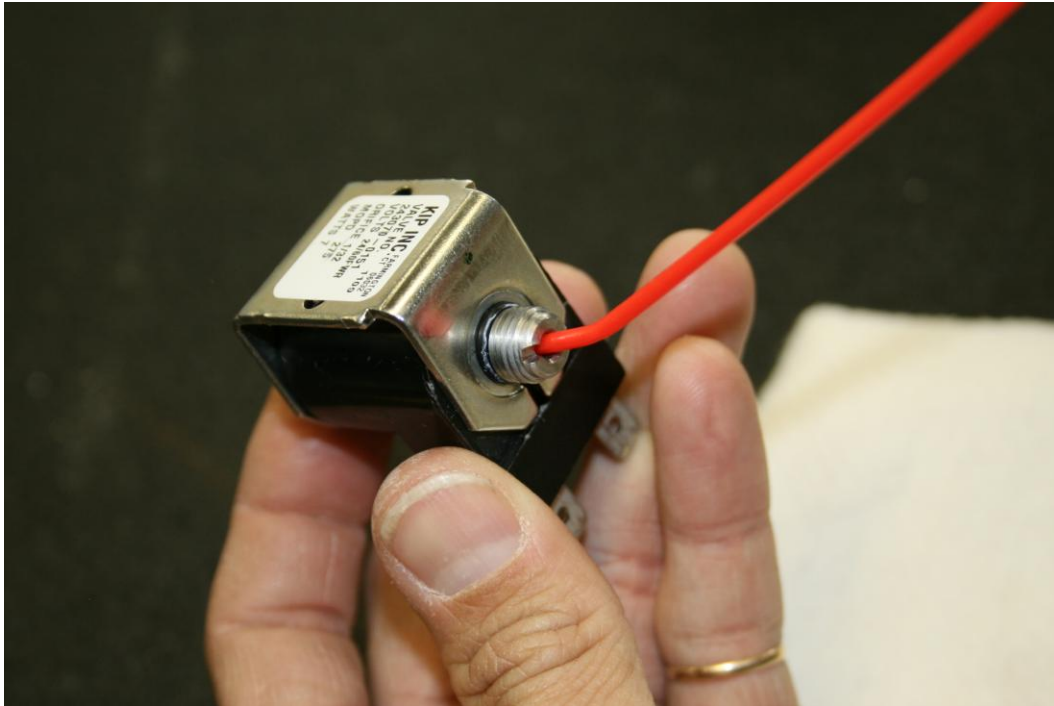
17. Use a swab to get any debris out of the coil housing.



18. Blow out the coil housing and make sure its dry.



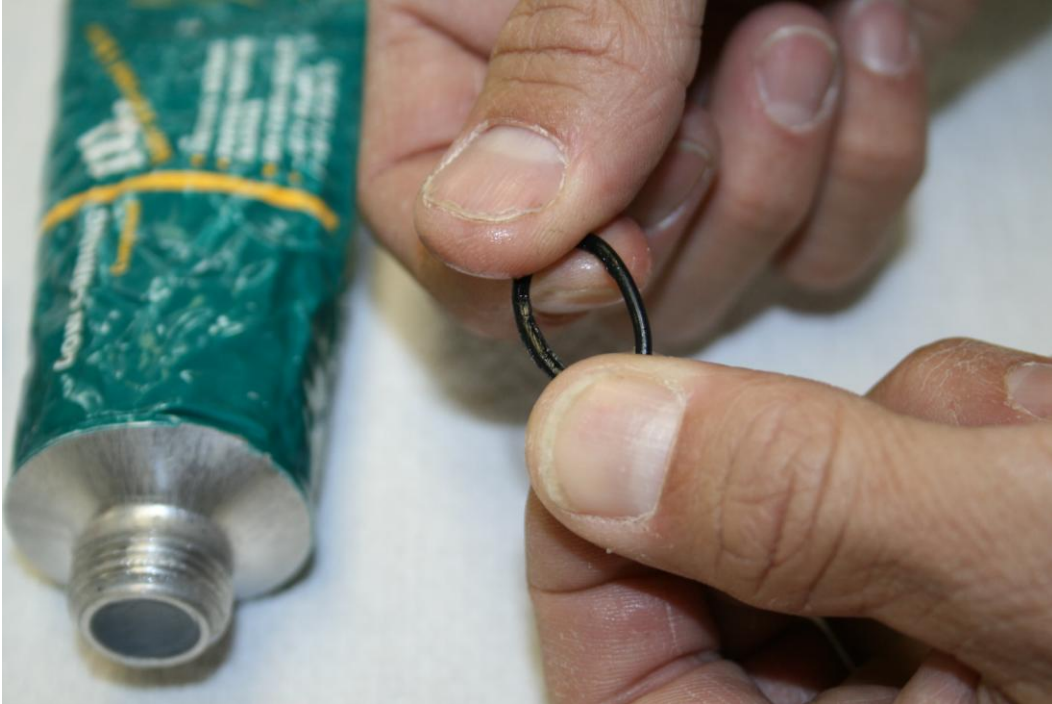
19. Blow out the other end as well.



20. Clean off the o-ring with alcohol.



21. Apply a thin layer of valve lubricant/grease to the o-ring.



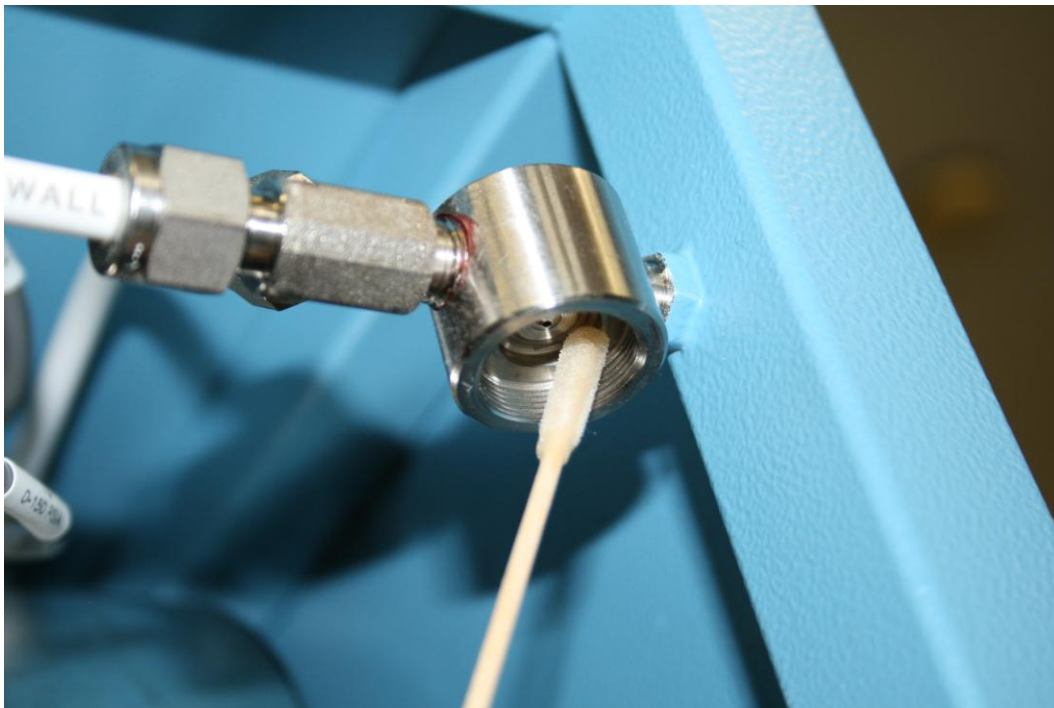
22. Insert the plug and spring back into the valve coil housing with spring and rubber stop up.



23. Place the o-ring over the center of the coil body.



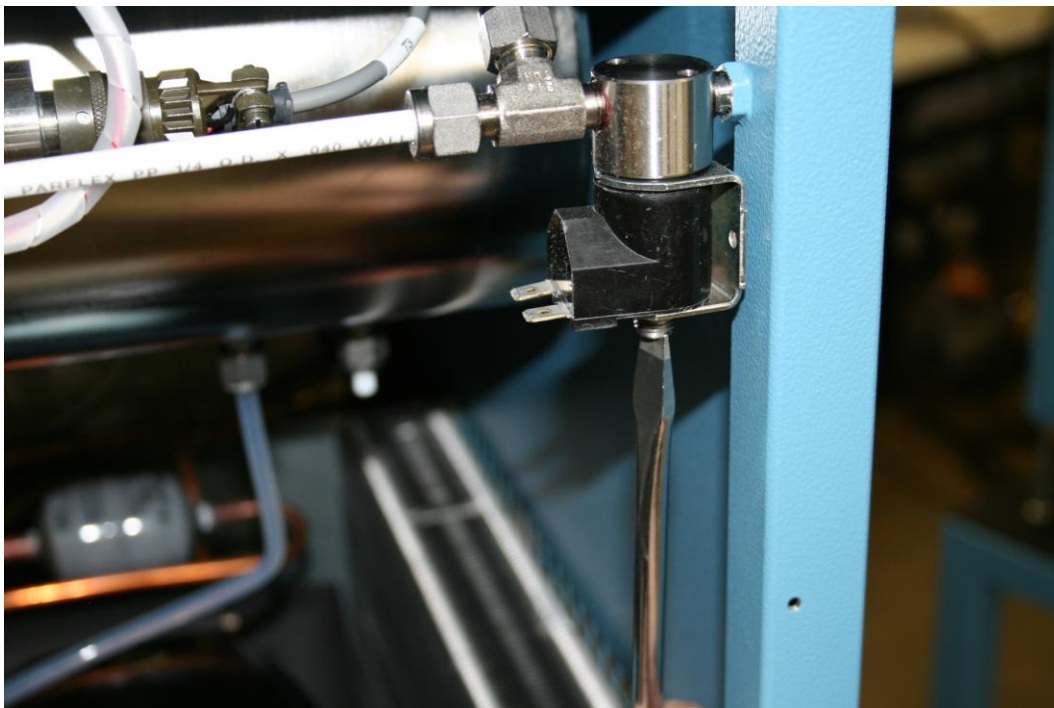
24. Next take a swab with alcohol on it and clean the inside of the valve body still on the frame.



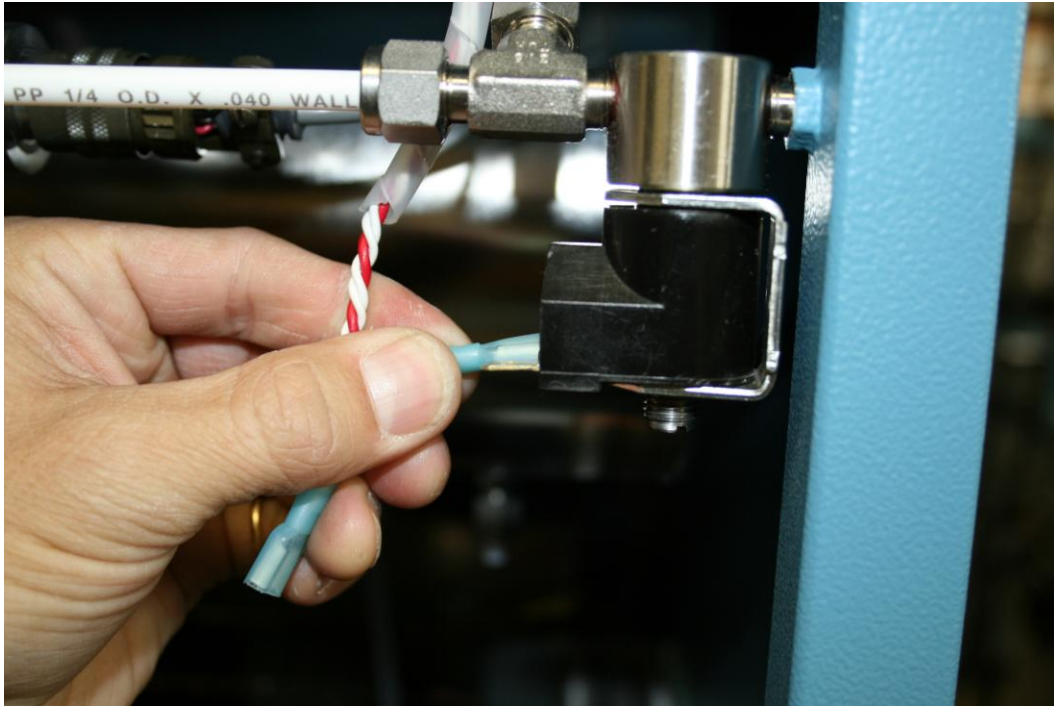
25. Align the coil body with the valve body and insert back into the valve body, taking care not to cross thread when screwing in the coil body.



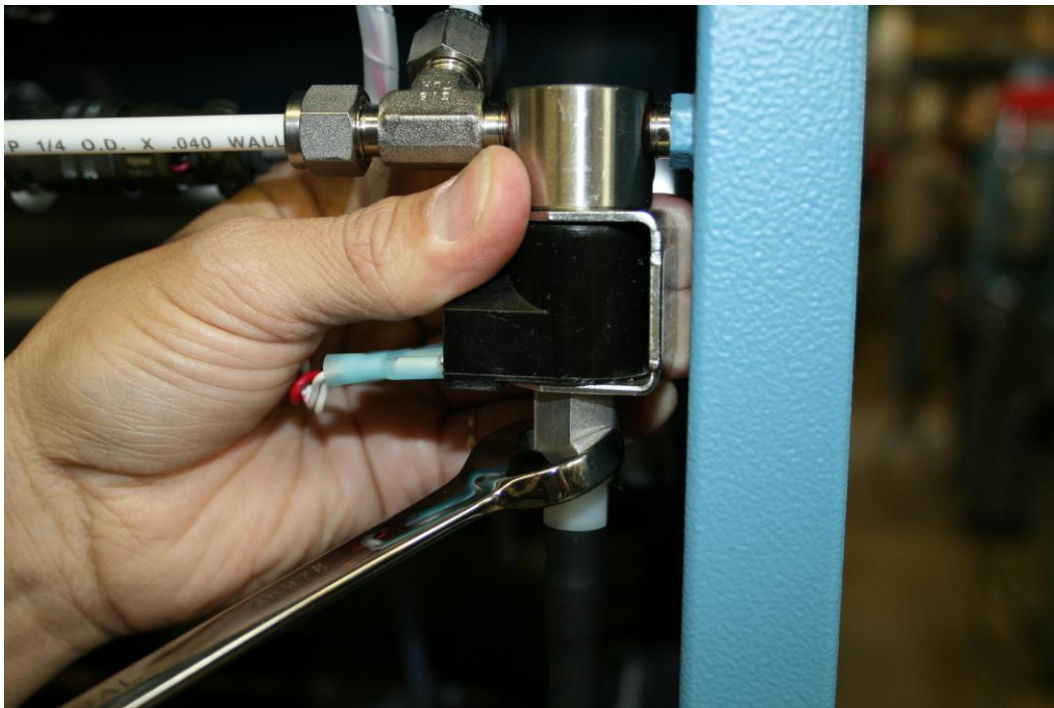
26. Using the large flathead screwdriver from step 8, tighten until snug.



27. Replace the wire leads on the terminals.



28. Put back the bleed hose fitting using a 9/16" wrench.



29. Feed the rubber hose back through the hole in the base mounting plate.



30. Replace the rear console panel and make sure to reconnect the fan power plug as well as the air in elbow and the main power cable on the rear panel.

Please Call 1-800-872-7728, Fax 1-505-266-6203, or E-mail [support@thunderscientific.com](mailto:support@thunderscientific.com) should you have any questions.