

Humidity Generation and Calibration Equipment

THUNDER SCIENTIFIC
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Model 2500

Cleaning the Pre-saturator fill solenoid 4 procedure



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623 WYOMING BLVD. SE



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Cleaning the Pre-saturator fill solenoid 4 procedure

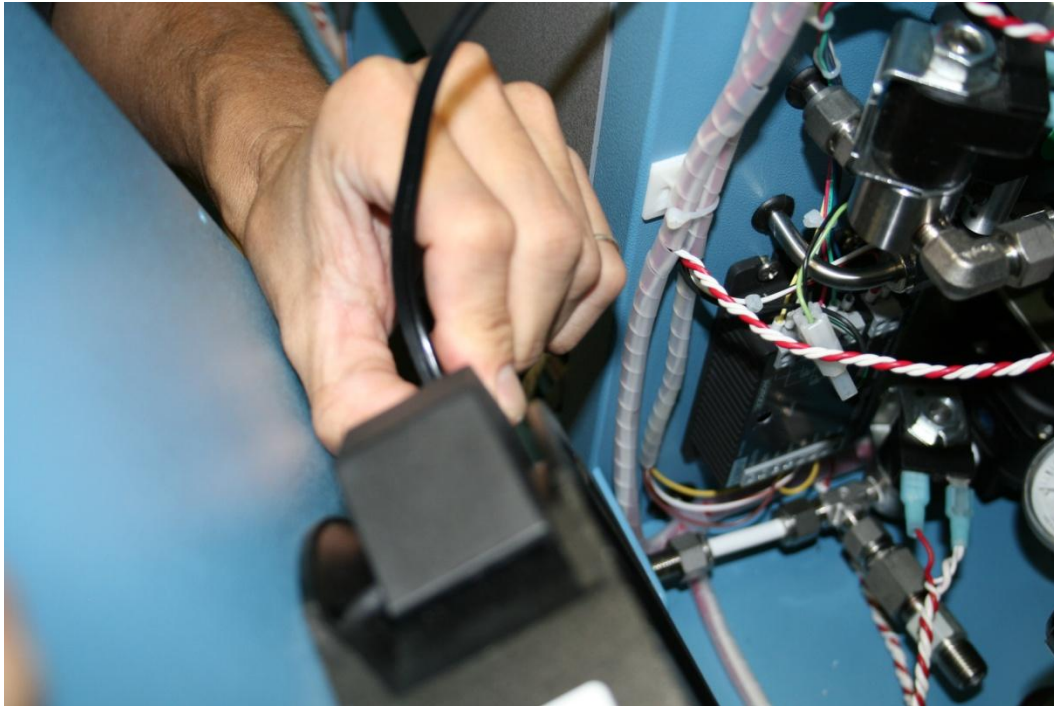
1. Disconnect the main power cable on the rear panel as well as the air in elbow.



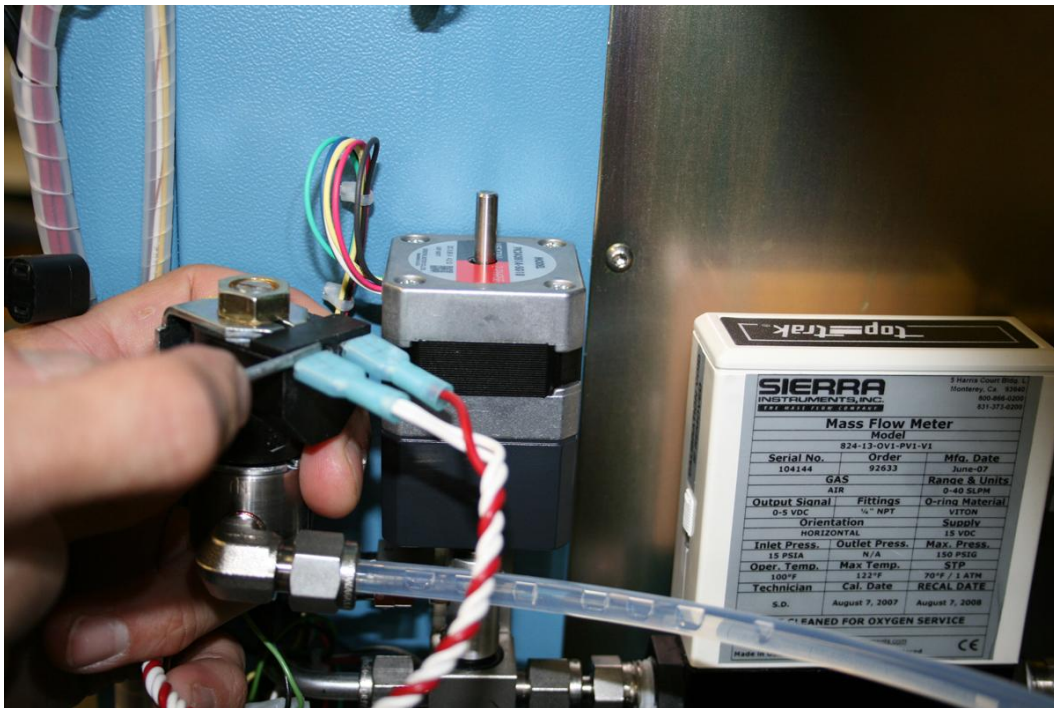
2. Remove the rear panel screws using the Torx drive provided.



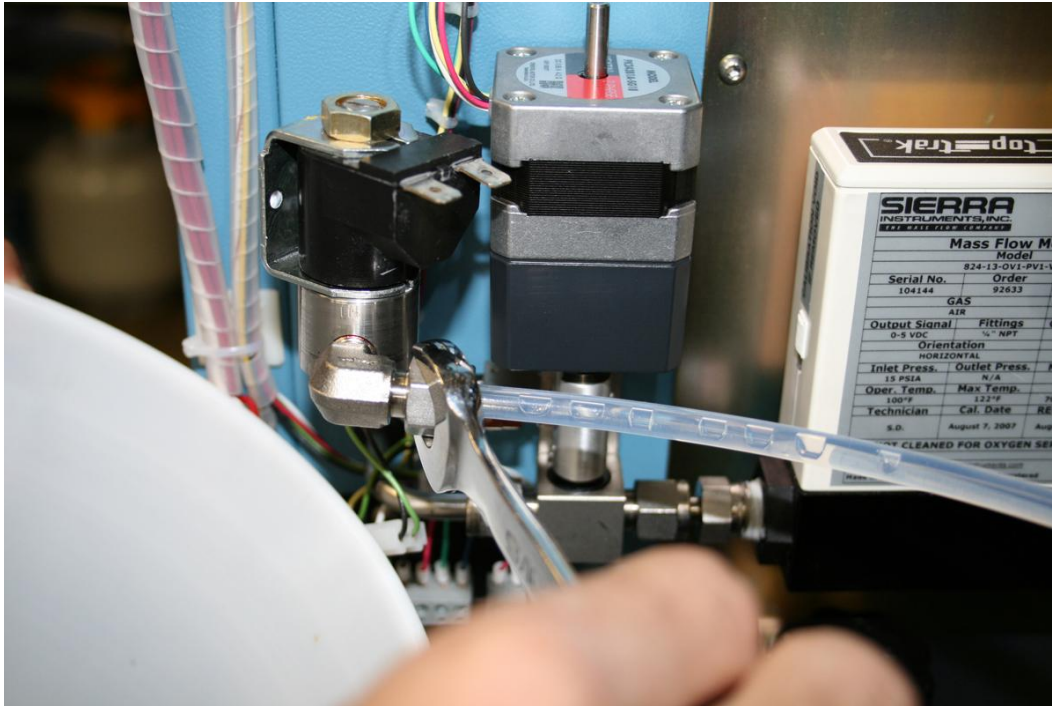
3. Hold the rear panel upright and remove fan power cord.



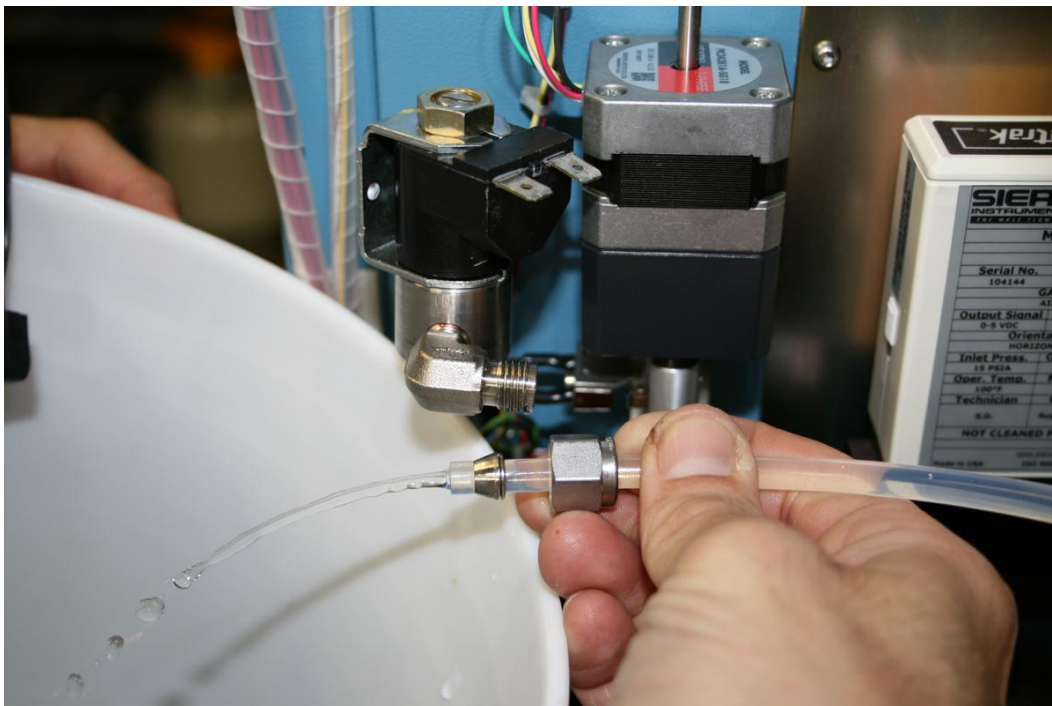
4. Locate the Pre-Sat fill solenoid and remove the wire leads using a small flat head screwdriver.



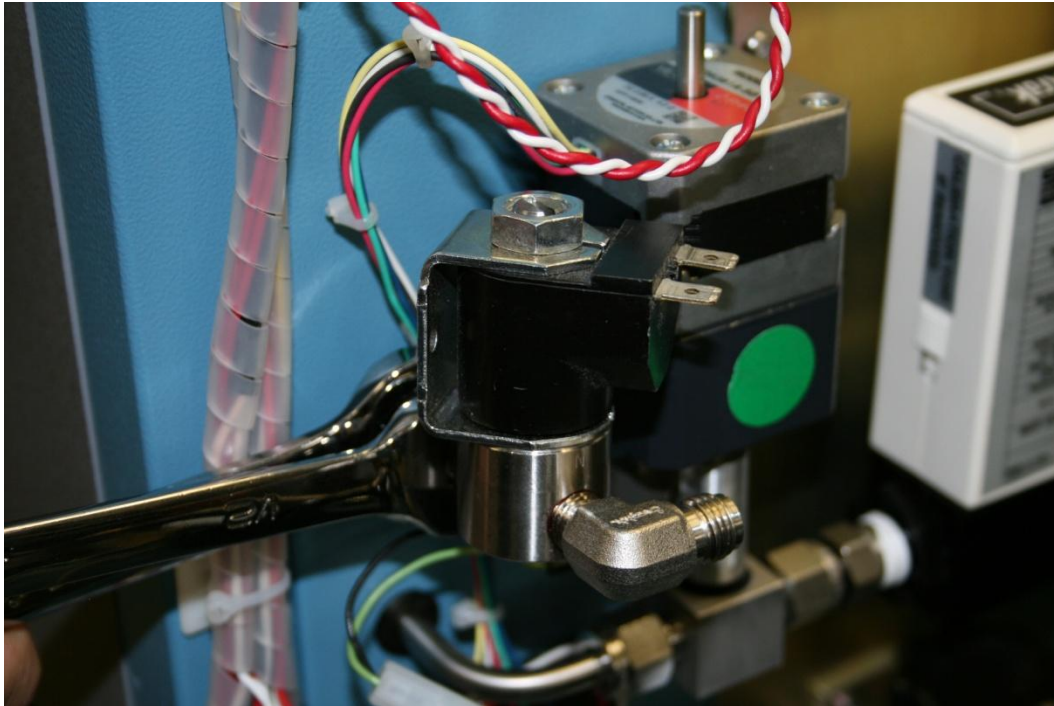
5. Loosen the nut on the elbow of the reservoir to pre-sat solenoid tube.



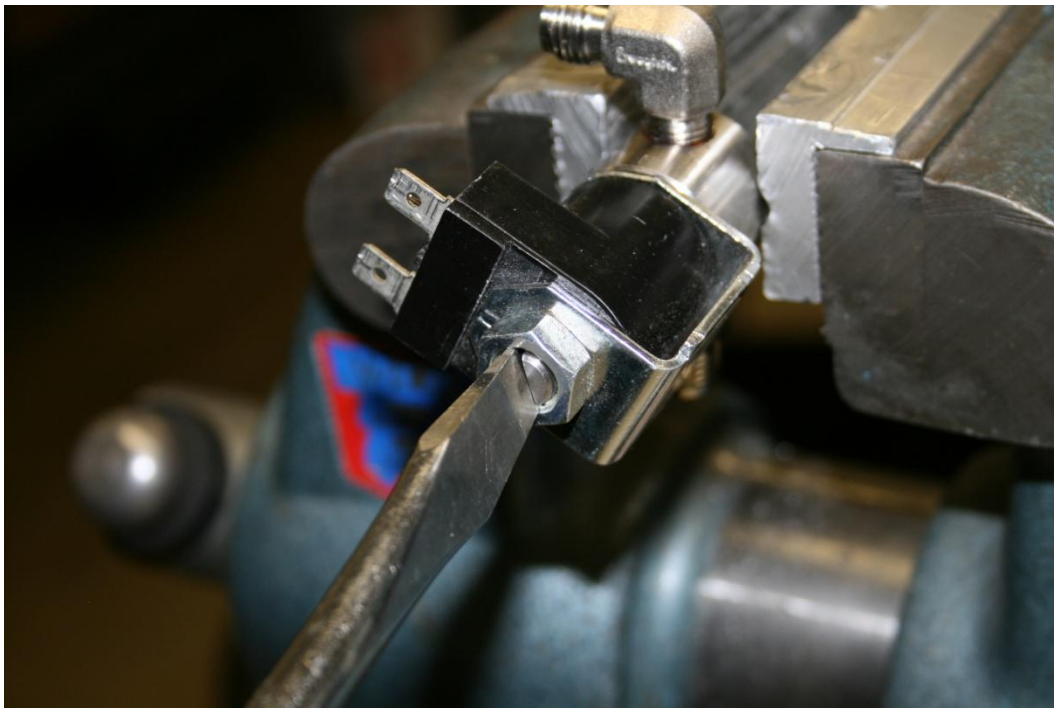
6. Make sure you have a one gallon bucket in close proximity to the tube nut and move it over to the bucket to let the reservoir drain.



7. Remove the pre-sat fill solenoid using a 9/16 wrench and a 1/2 wrench.

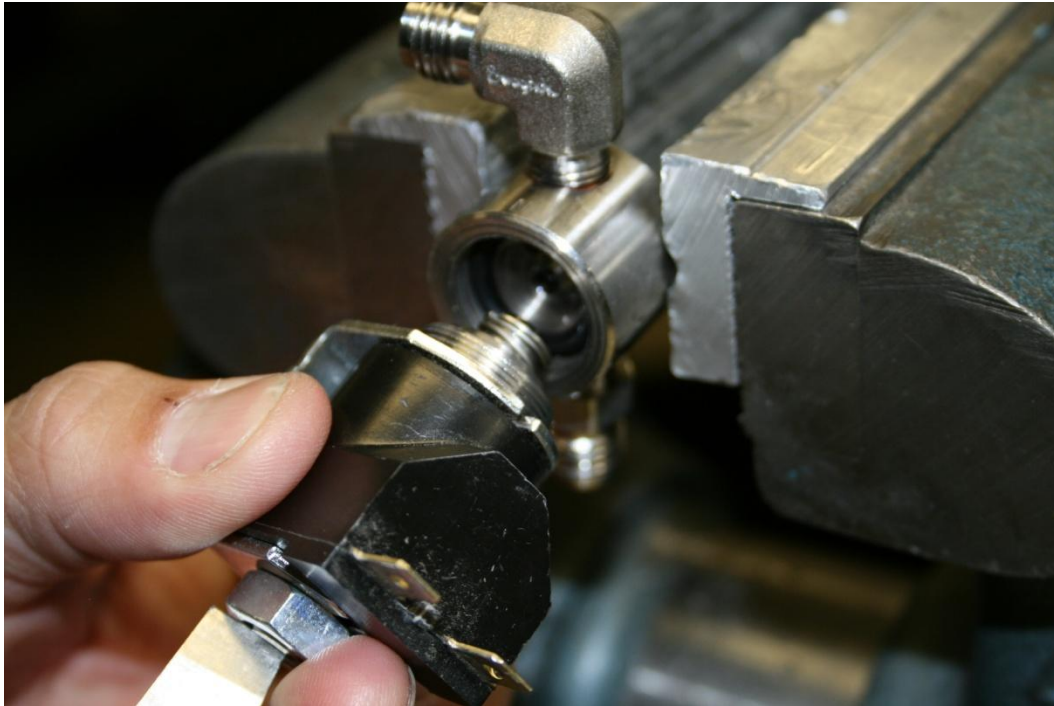


8. Take the solenoid to a workbench and clamp the stainless steel body in a vice.



9. Using a flat head screwdriver, unscrew the coil from the body.

10. Remove the coil.



11. Take out the coil plug and spring from the coil housing.



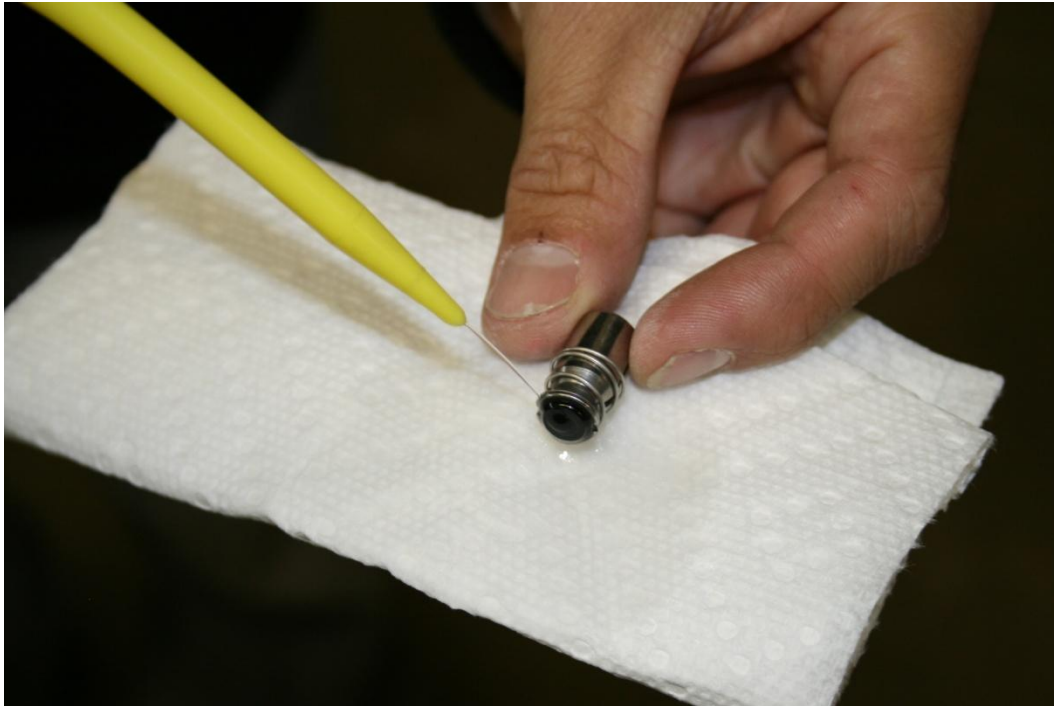
12. Remove the o-ring from the valve body.



13. Clean the o-ring with alcohol.



14. Clean the coil plug and spring with alcohol.



15. Clean the valve body with alcohol.



16. Blow dry the valve body.



17. Clean out the coil body with alcohol.



18. Use a swab to get any debris from inside the coil chamber.



19. Replace the o-ring in the valve body making sure it's properly seated.



20. Next insert the coil plug and spring inside the coil chamber housing.



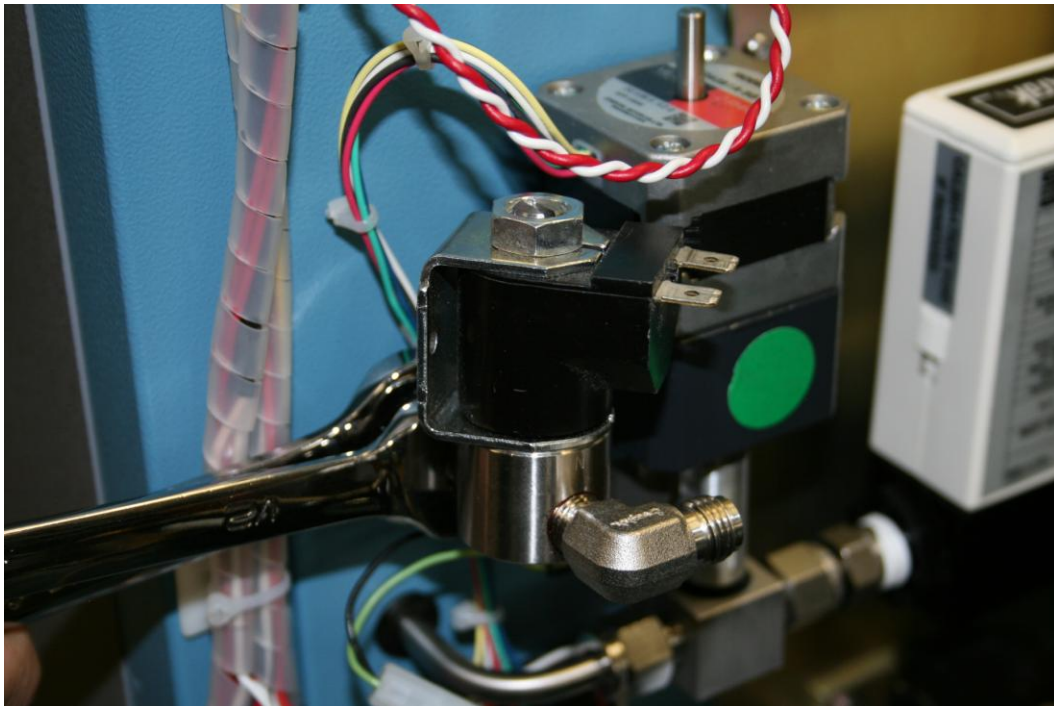
21. Put the coil housing and the valve body together.



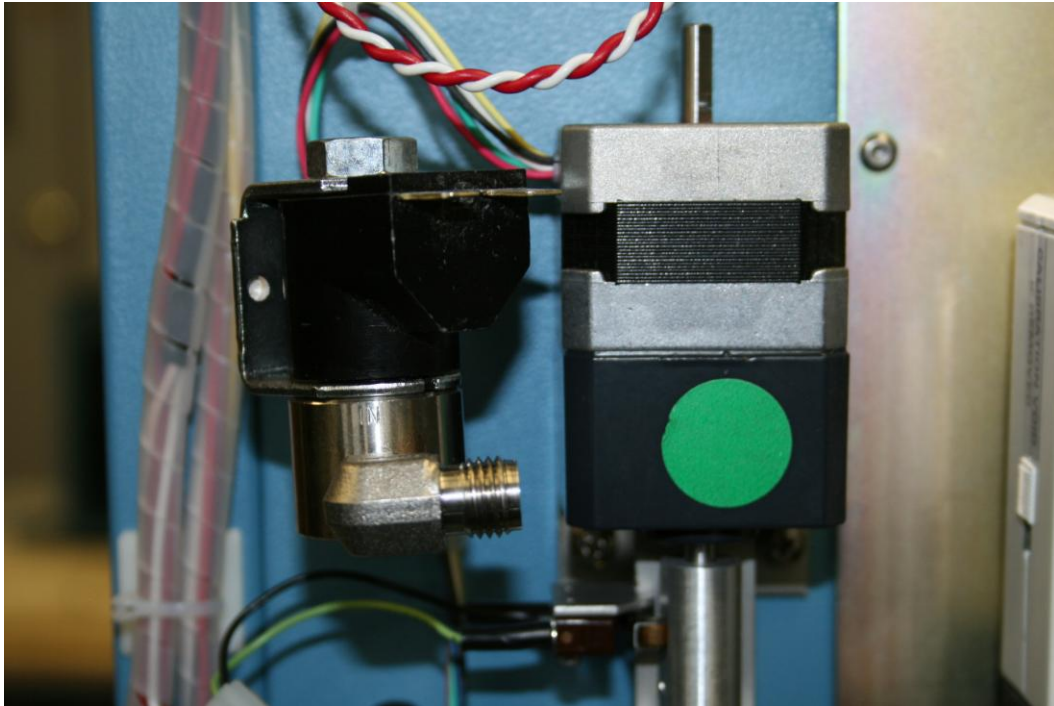
22. Make sure that when you assemble the two parts the coil needs to be at a 45° angle towards the elbow before tightening it down.



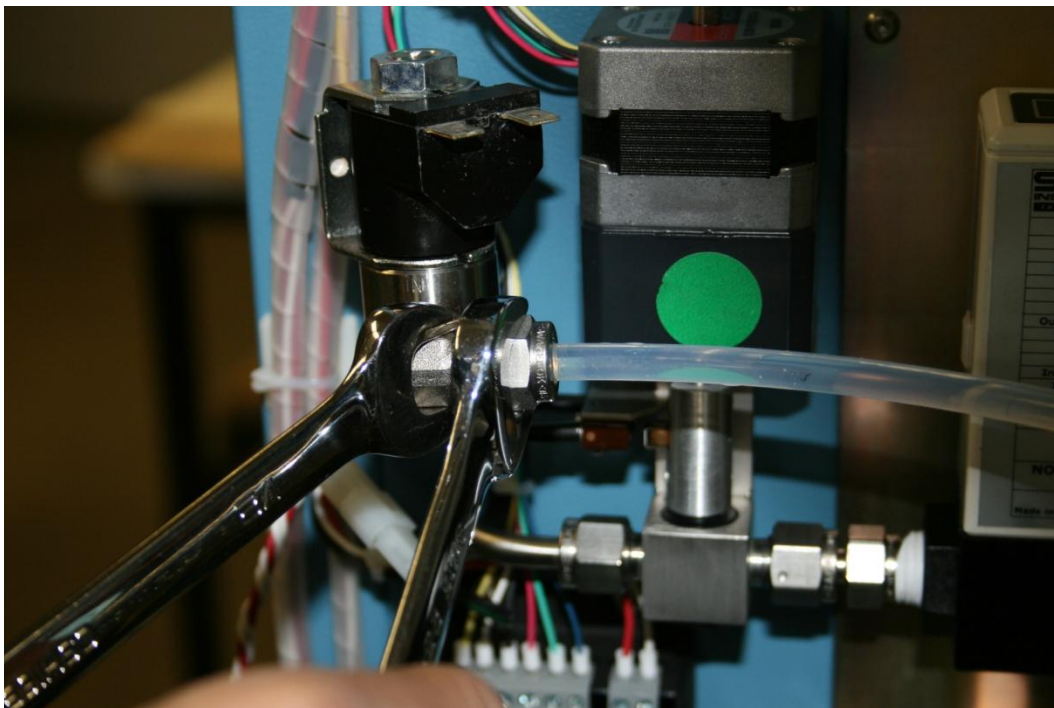
23. Insert the Pre-Sat fill solenoid assembly back into the system using a 9/16 wrench and a 1/2 wrench.



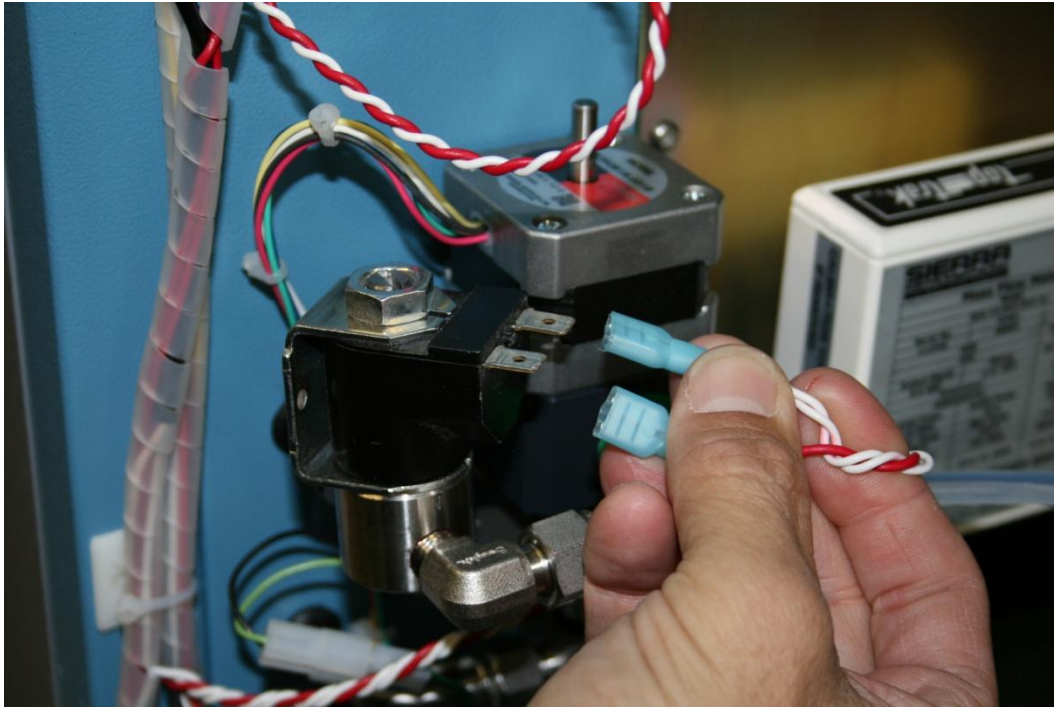
24. Make sure that the elbow is level with the frame.



25. Reattach the reservoir to pre-sat solenoid tube using a 9/16 wrench and a 1/2 wrench, be sure not to over tighten.



26. Reconnect the wires back to the solenoid.



27. Refill the reservoir with distilled or deionized water only.

28. Replace all console panels 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 should you have any questions.