Model 2500
Flow Meter Drying Procedure
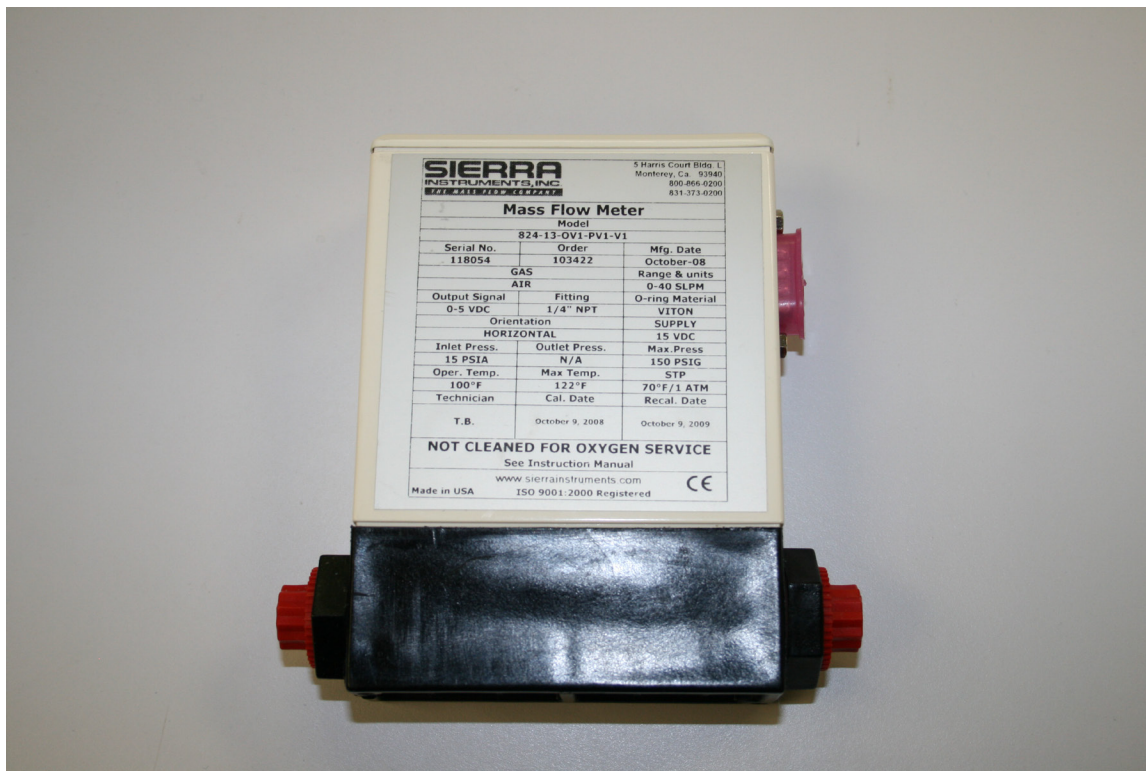
Tech Support Document TSD-0201
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2500 Flow Meter Dry Out Procedure

1. Turn the power off to the 2500 generator.

2. Turn off the air supply.

3. Remove the air supply line from the back of the system using a 9/16" wrench.
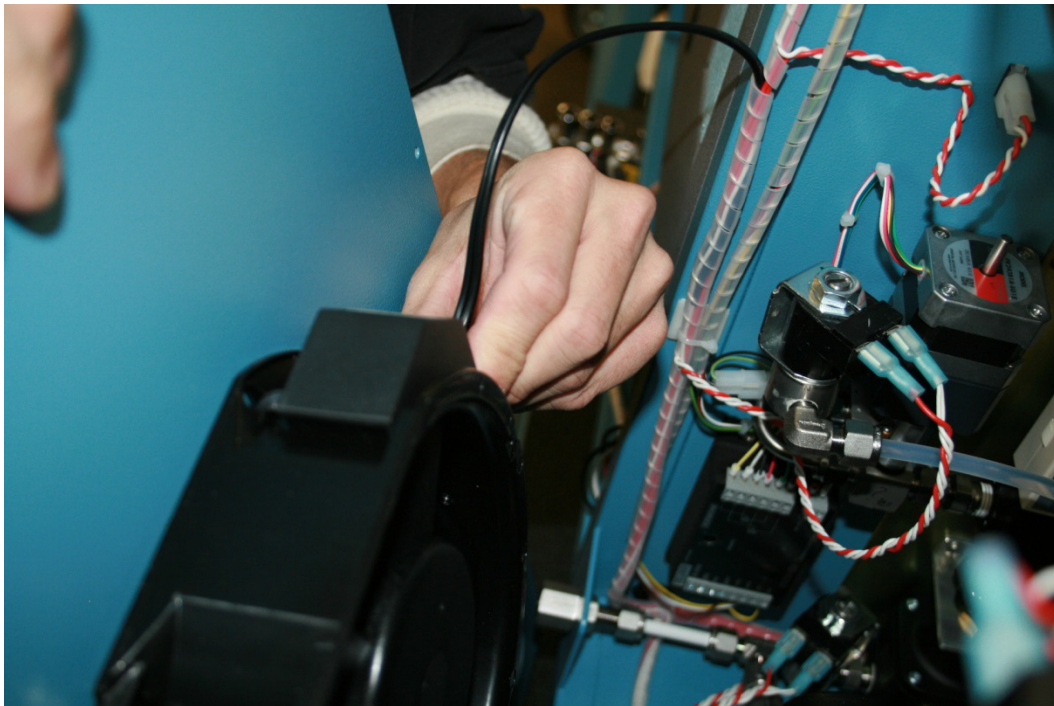

4. Remove the power plug from the rear of the system.

5. Remove the rear right hand panel screws and panel. Using the Torx screw driver provided. Note: hold the panel while removing the screws.
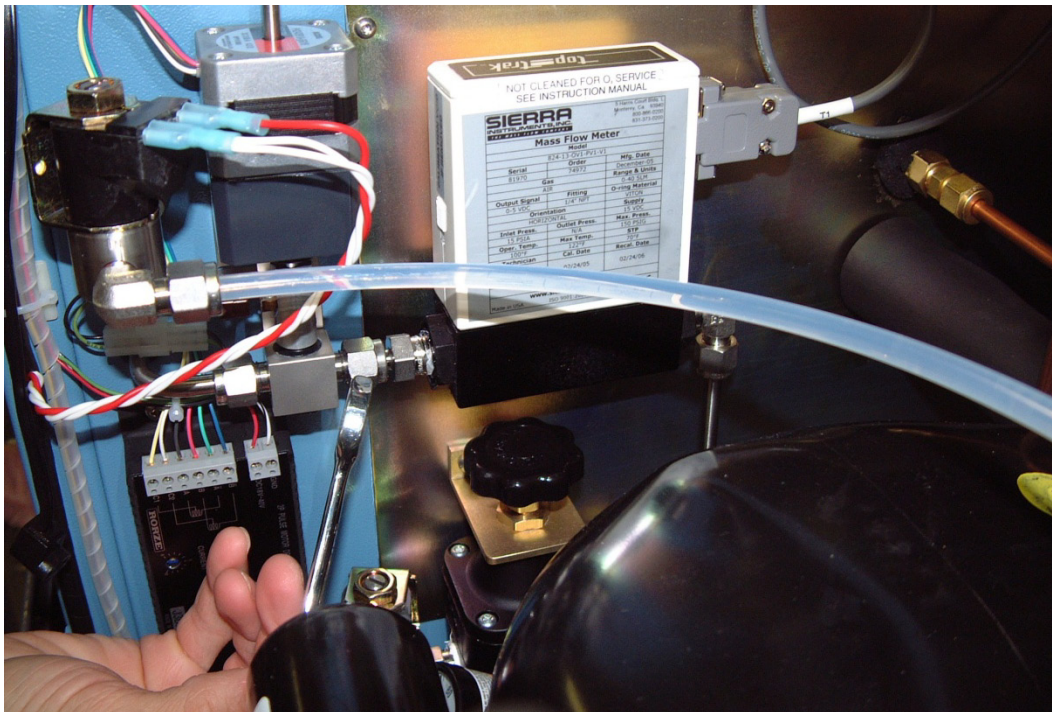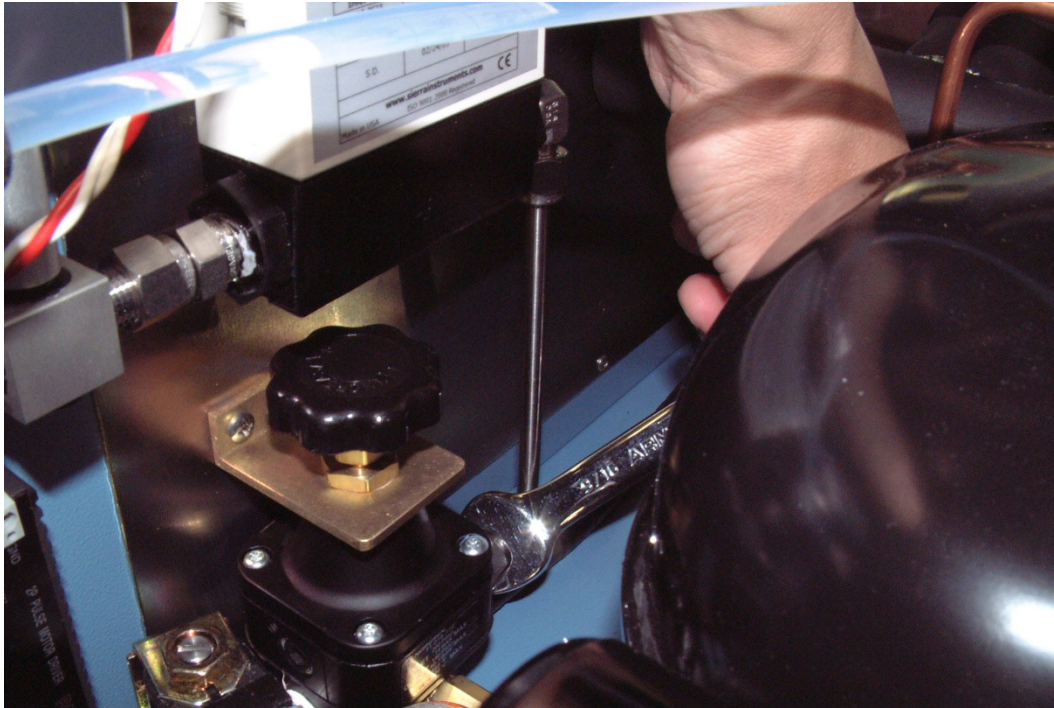

6. Remove the fans power cord connector.

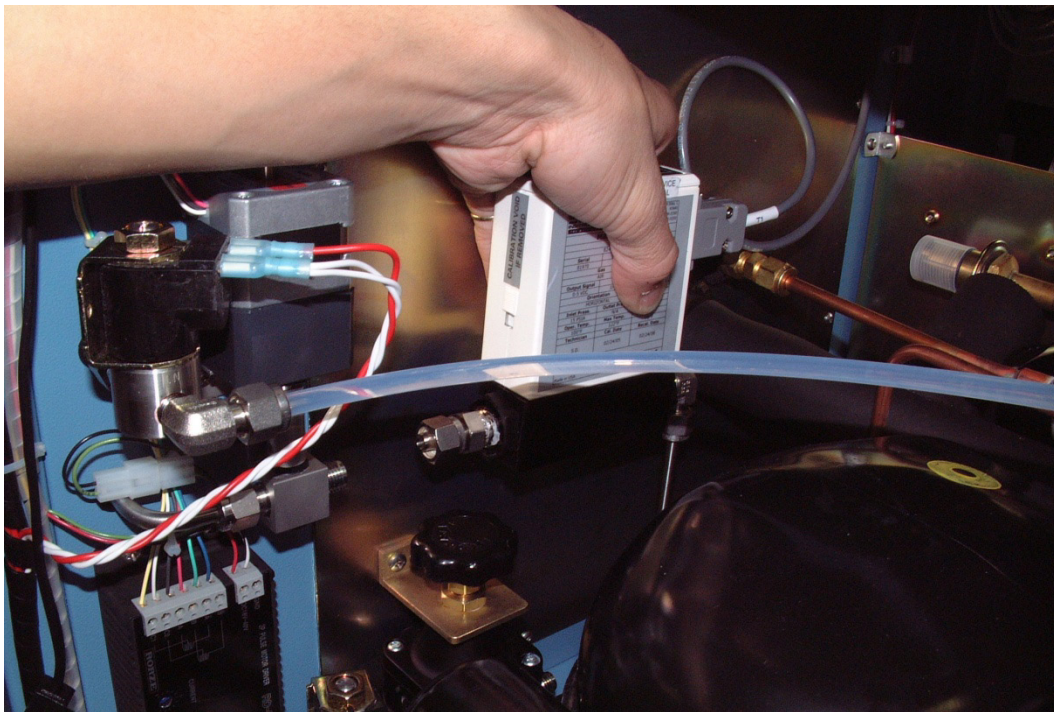7. Locate the flow meter on the inner wall of the cabinet.

8. Remove the nut on the air outlet side of the flow meter using a 9/16" wrench.
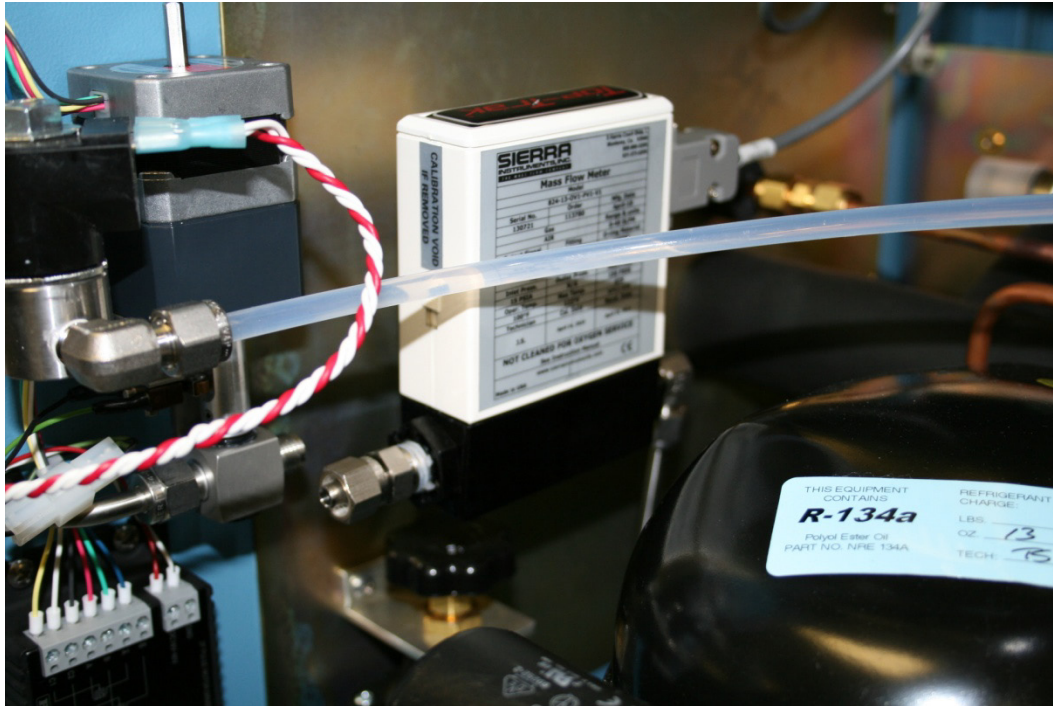
9. Remove the nut at the base of the regulator outlet using a 9/16" wrench.

10. After unscrewing the two nuts, rotate the flow meter slightly clockwise.
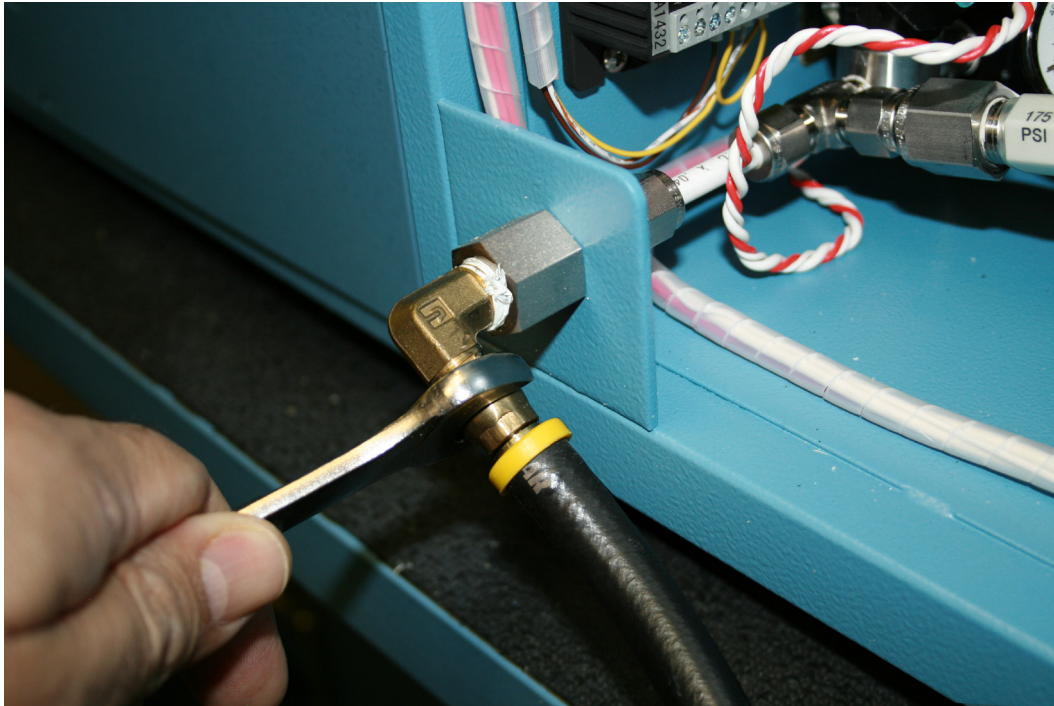
11. Reinstall the flow meter only using the lower nut at the regulator outlet and leave the other exposed.

12. Next turn the pressure regulator knob counterclockwise until it spins freely.
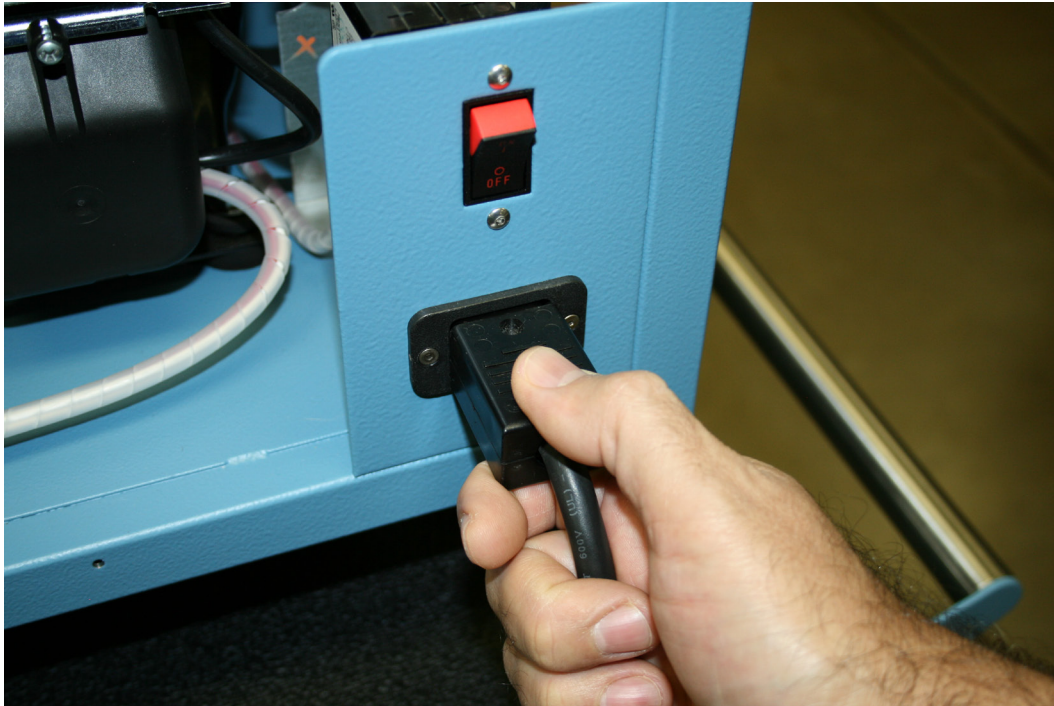
13. Reconnect the air inlet hose using a 9/16" wrench.
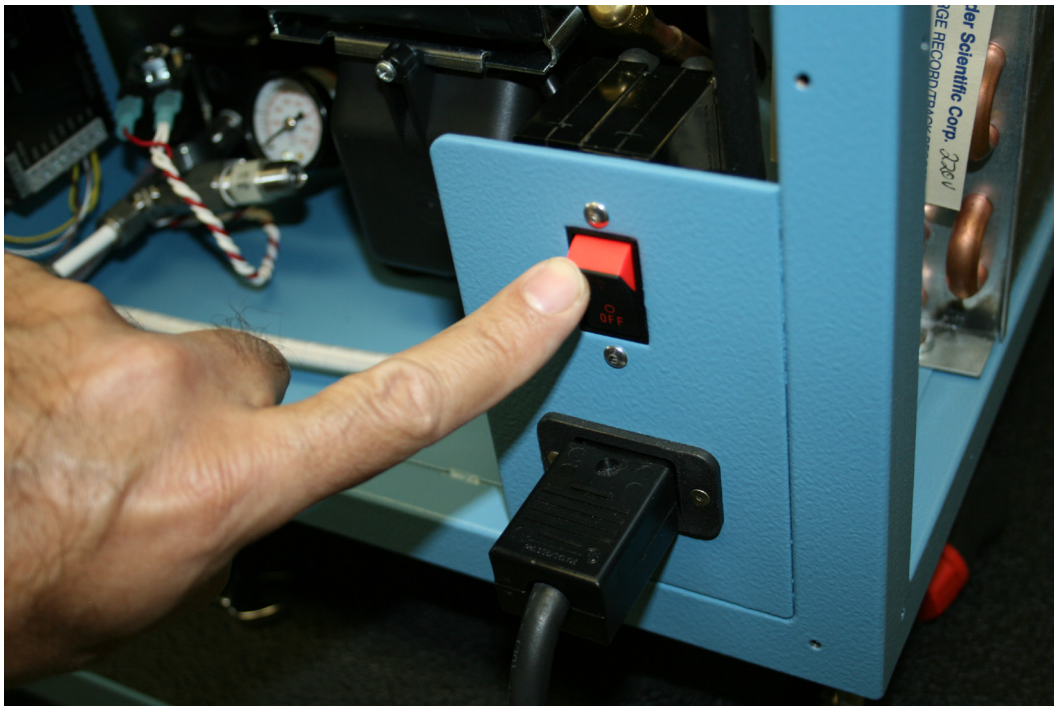

14. Turn on the air supply.

15. Plug the power cord back in.

16. Turn the power switch on.

17. Adjust the SATUR °C setpoint to 50.00 so that the refrigeration system will not turn on.

18. Press the RUN key to start the generator. This will activate the air supply solenoid.

19. Adjust the pressure regulator to about 20psi.

20. Put a thumb over the exposed flow meter fitting.

21. Quickly release your thumb to let the air pressure escape, some water may come out.
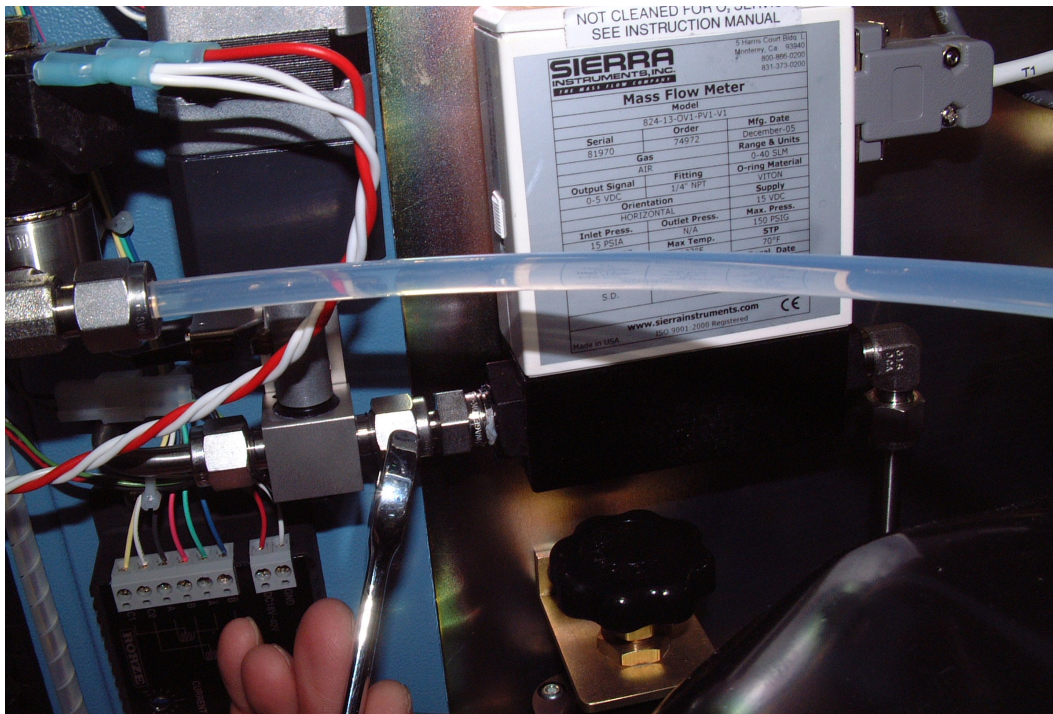

22. Block and release with your thumb several times until the flow meter is dry, and you begin to get actual readings of flow on the front screen again.

23. Once it's dry and appears to work correctly, press the STOP key on the front panel.

24. Reconnect the flow meter and tighten the nuts using a 9/16" wrench.

25. Press the RUN key on the front panel.

26. Adjust the pressure regulator to +150psi.

27. Press the STOP key on the key pad.

28. Turn the power to the system off.

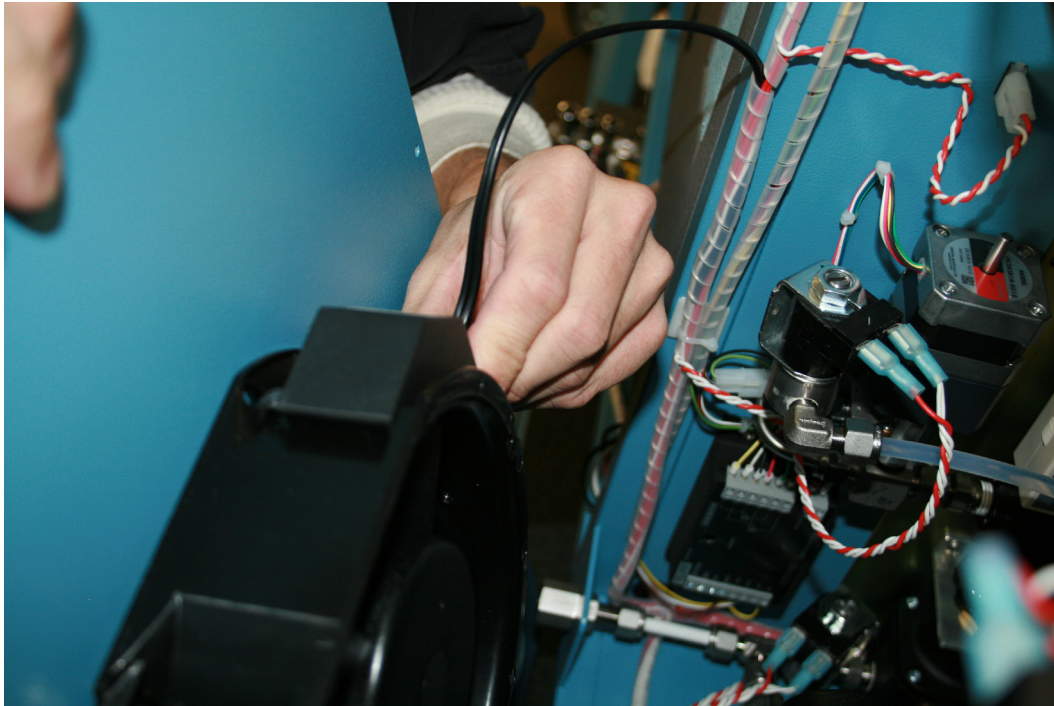29. Turn the air supply off.

30. Remove the power cord from the system.

31. Remove the air input hose using a 9/16" wrench.

32. Hold the back panel up and reconnect the power connector to the fan.

33. Put the panel screws back using the Torx screw driver.

34. Reconnect the air input hose.

35. Reconnect the power cord.

36. Now test for proper operation, and ensure that the air tank on the cart is dry.

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