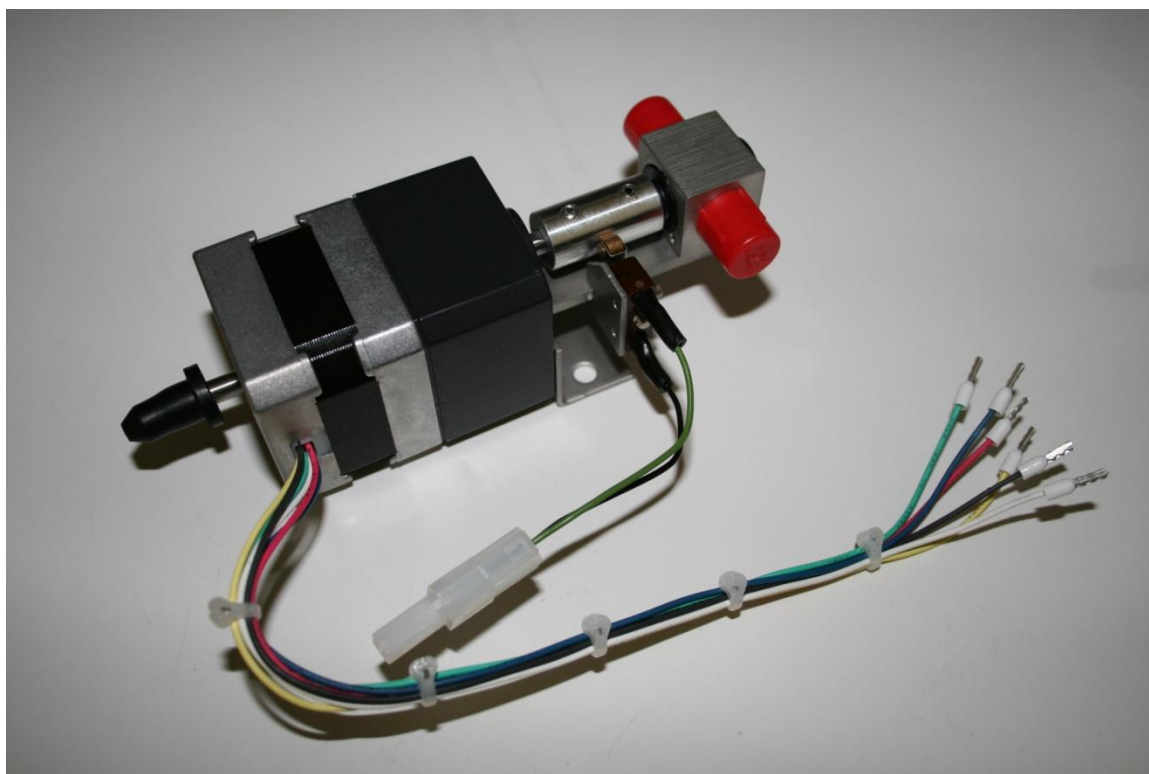


Humidity Generation and Calibration Equipment

THUNDER SCIENTIFIC
CORPORATION THE HUMIDITY SOURCE

Model 2500

Flow Valve O-Ring Replacement Procedure



Tech Support Document TSD-0206
Revision Date: March 11, 2010

623 WYOMING BLVD. SE



ALBUQUERQUE, NM 87123-3198
WWW.THUNDERSCIENTIFIC.COM



TEL: 505.265.8701
FAX: 505.266.6203

Flow Valve O-Ring Replacement Procedure

1. Disconnect the main power plug from the 2500 system and remove the air hose elbow.

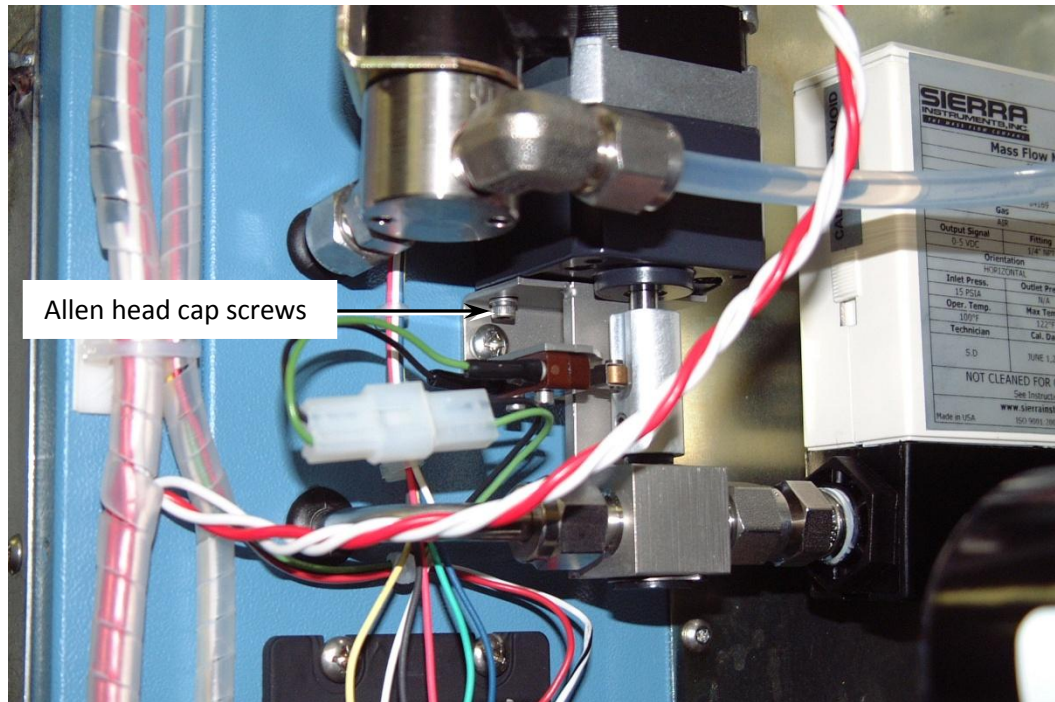


2. Remove the right rear panel and disconnect the exhaust fan power connection.

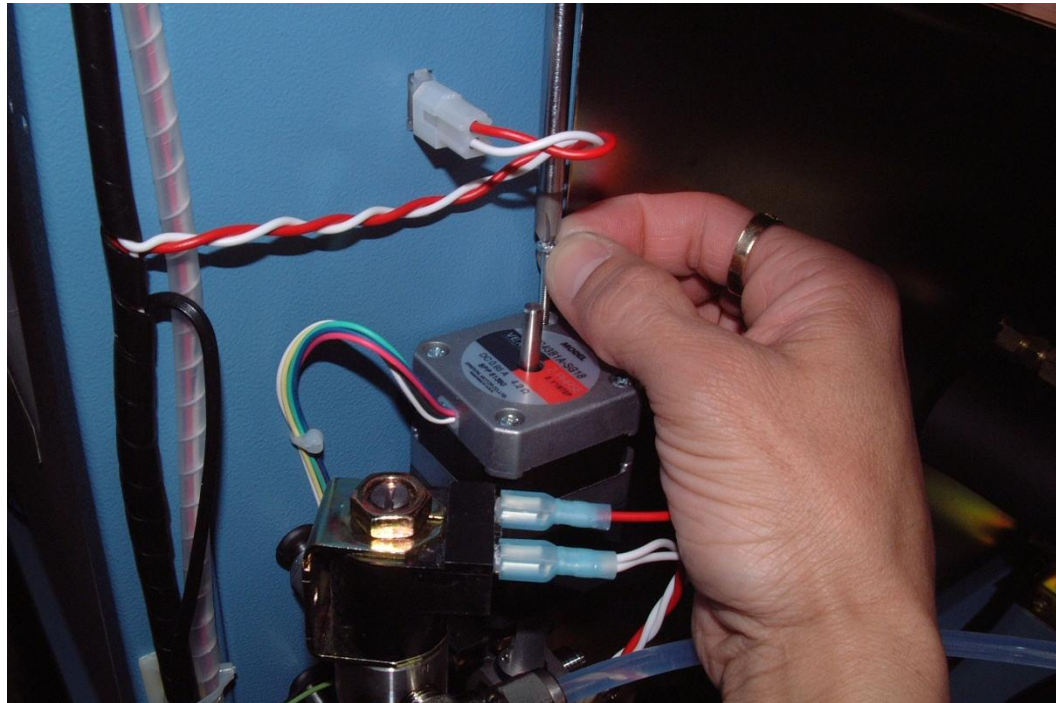


3. Remove the snap ring at the base of flow valve.

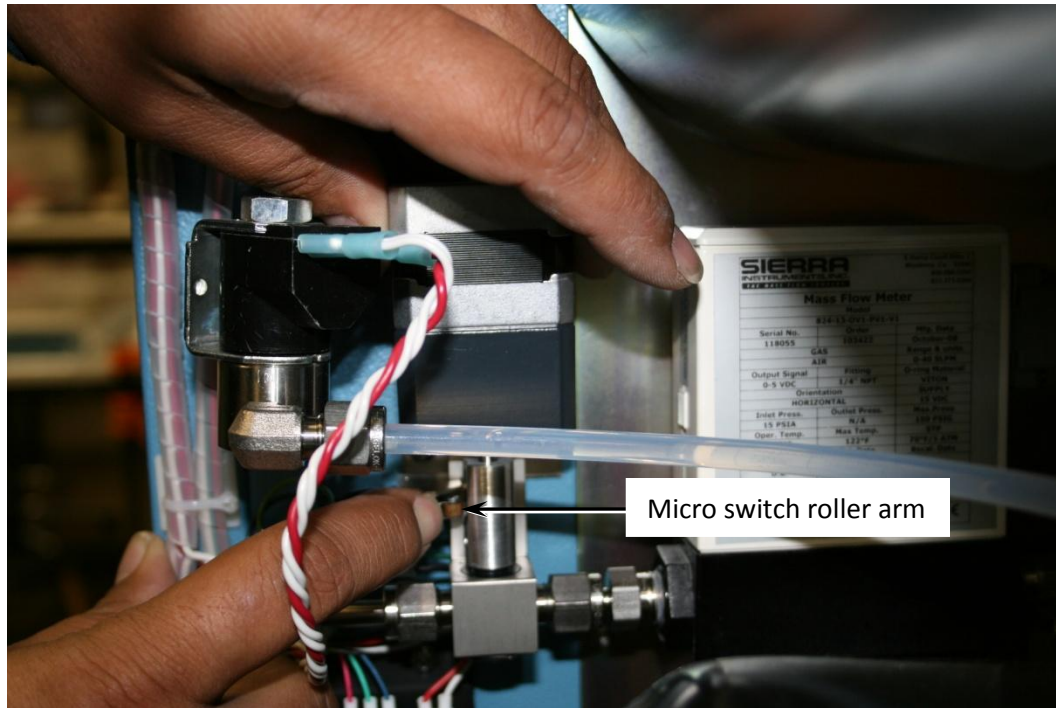
4. Remove the two Allen screws that secure the valve bracket.



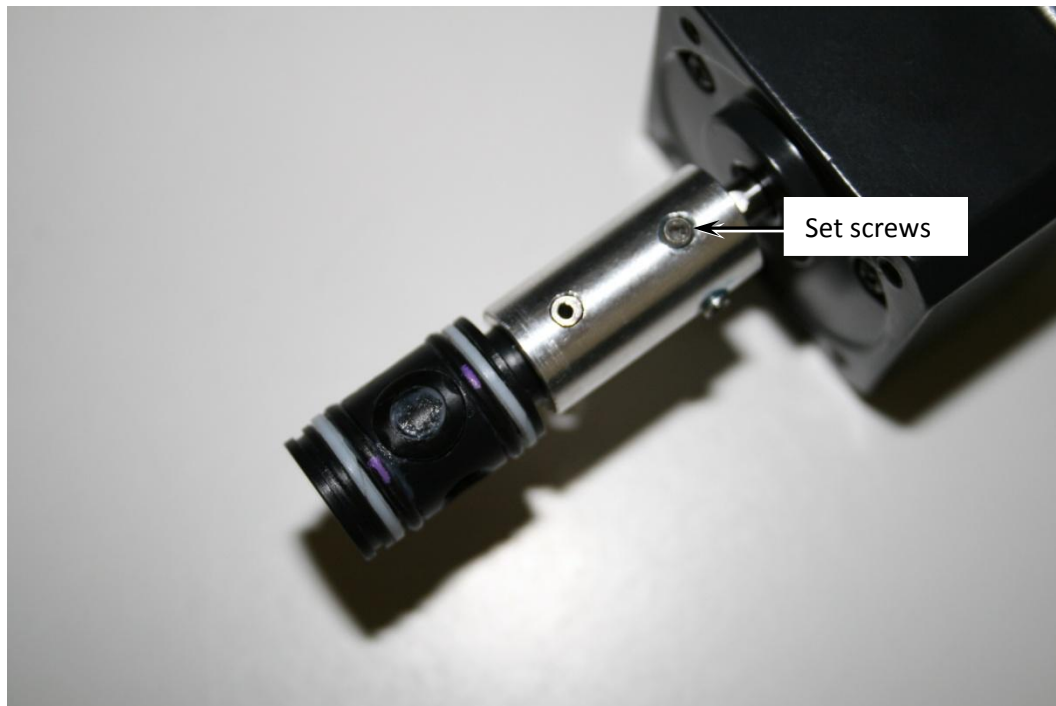
5. Remove two Phillips screws at motor. Lift the drive motor off of the valve assembly.



6. Remove the valve plug from the body housing as shown. Be careful to hold the micro switch roller arm away from the shaft coupling to prevent bending of the switch roller arm.



7. Check that all valve coupling set screws are secure.



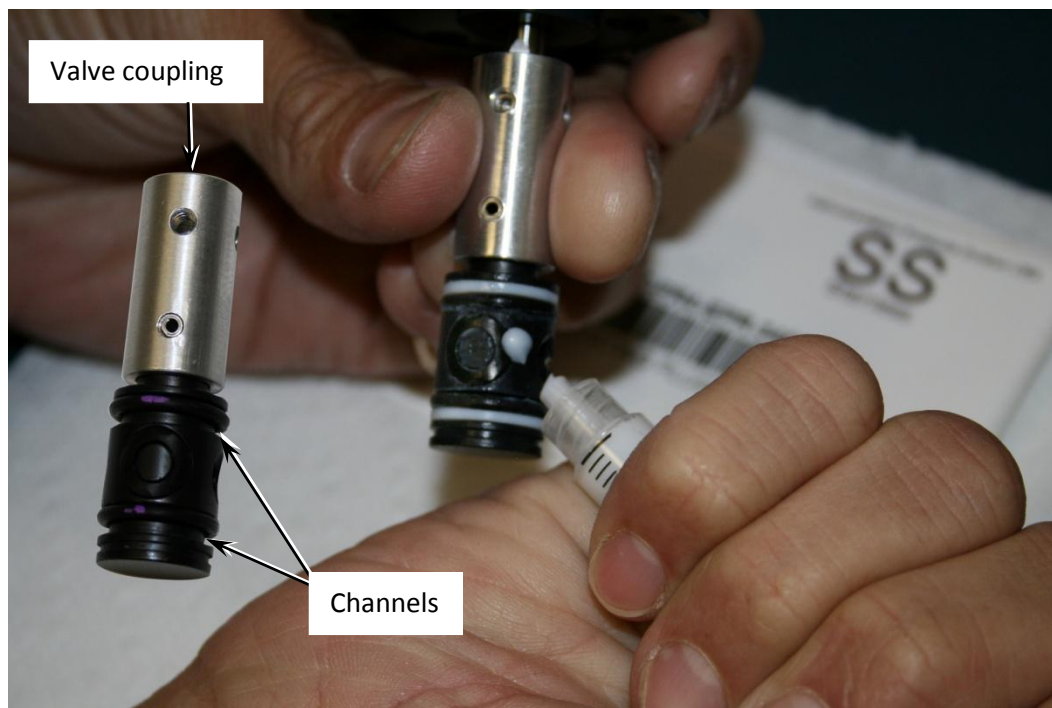
8. Remove the value plug from the value body and remove the O-Rings. You may have ether the plug on the right or left, replace only the ones that came with your system.



9. Use Parker O-Ring kit Part number KITPR4EPR.



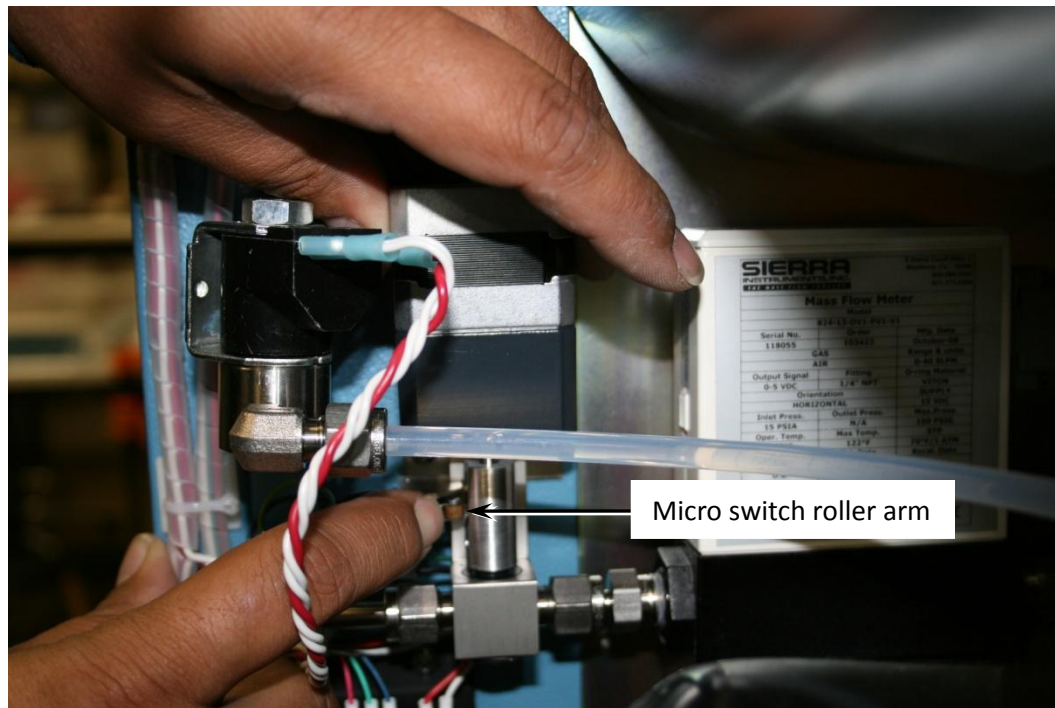
10. Re-grease O-rings and valve plug as shown. If you have the one on the left, make sure the O-rings are pushed up towards the valve coupling and add the grease in the channels.



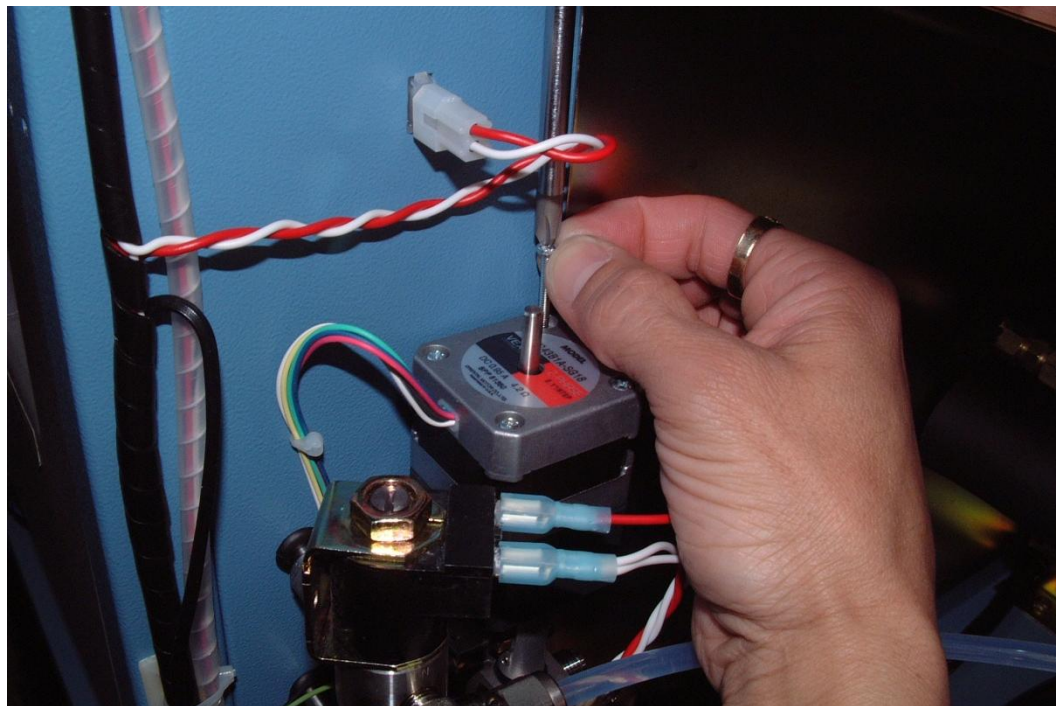
11. Use Krytox® 240AB Grease part number KRYTOX O-RING LUBRICANT.



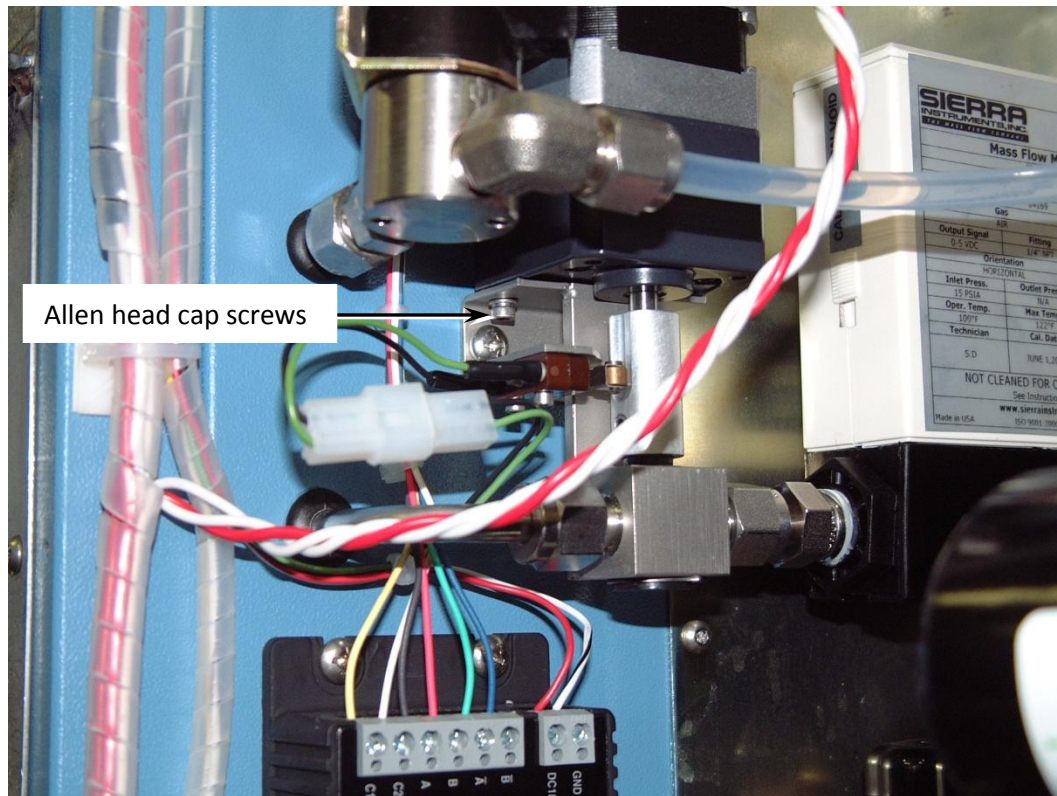
12. Replace the valve plug into the valve body and hold the micro switch roller arm away from the shaft coupling.



13. Replace the valve motor and insert the two Phillips head screws.



14. Tighten the Allen head cap screws evenly.



15. Replace the plug retaining ring.



16. Replace the right rear panel and the exhaust fan power connection.



17. Replace the Torx head screws on the right rear panel and connect the main power cord as well as air in connection to the elbow.

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