

Humidity Generation and Calibration Equipment

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

## *Model ACS-517B*

### **ACS-517B Bypass Air Filter Removal Procedure**



Tech Support Document TSD-0230  
Revision Date: November 10, 2009

623 WYOMING BLVD. SE



ALBUQUERQUE, NM 87123-3198  
[WWW.THUNDERSCIENTIFIC.COM](http://WWW.THUNDERSCIENTIFIC.COM)



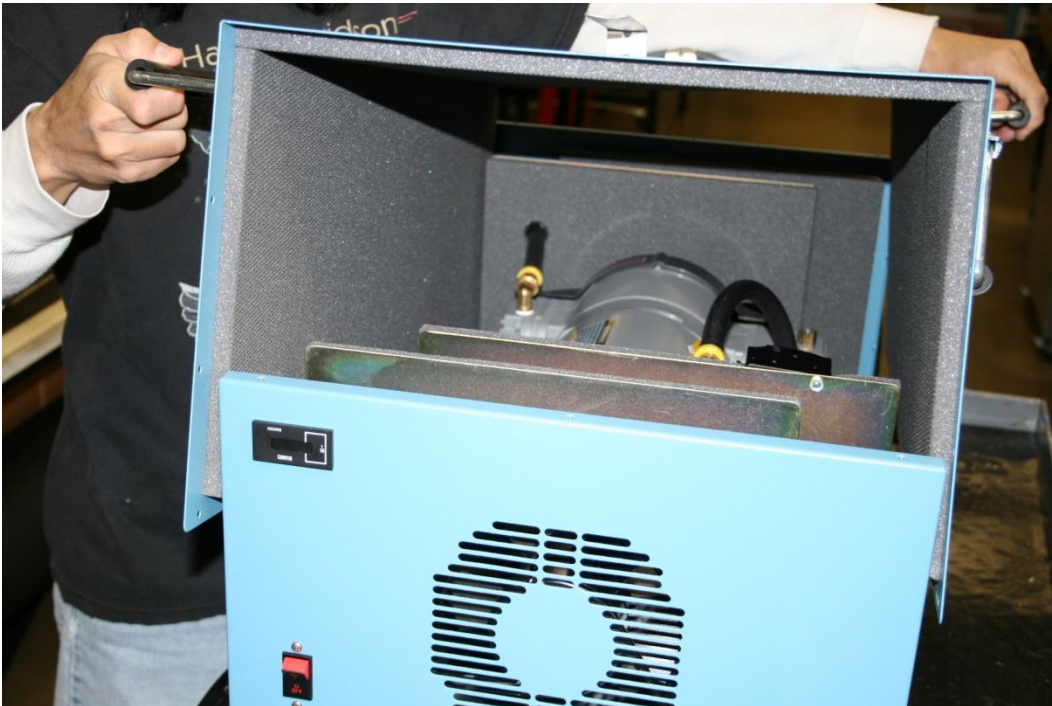
TEL: 505.265.8701  
FAX: 505.266.6203

## ACS-517B Bypass Air Filter Removal Procedure

1. First take off any air hose and power connections.
2. If you have the air box on a cart, lift it off the cart for maintenance.



3. Remove the cover screws using a Phillips head screwdriver.



4. Lift off the cover.

5. Locate the filter assembly.



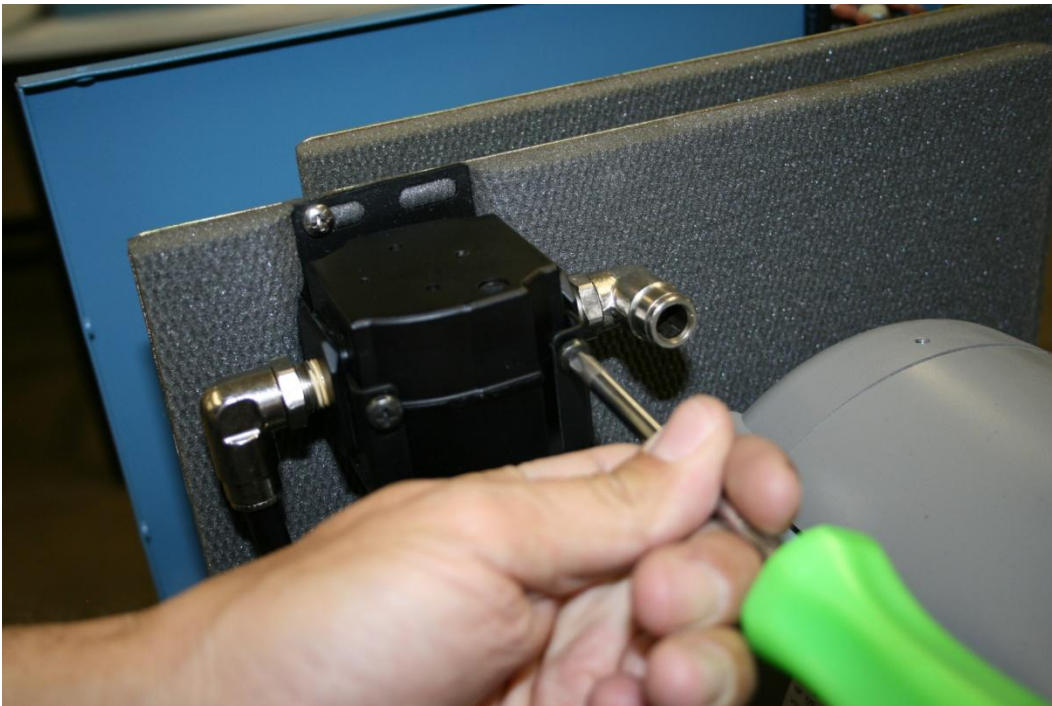
6. Take a 3/8 size open end wrench and slide it over the tube and press it up against elbow.



7. Pull firmly on the tube while pushing on the elbow fitting with the wrench.



8. Use a Phillips head screwdriver and loosen the two screws



9. Take the same 3/8 wrench and follow the same procedure to remove the tube.



10. Take a 3/8 wrench and do the same on the filter outlet elbow.



11. The filter assembly should lift out freely.



12. Take the filter assembly and remove the filter bowl by rotating it counterclockwise.



13. Place the filter body in a vice between the bracket mounting rails.



14. Take an 11/16 wrench and remove the two elbows by rotating them counterclockwise.



15. After removing all three elbows, be sure to clean the threads with a wire brush.



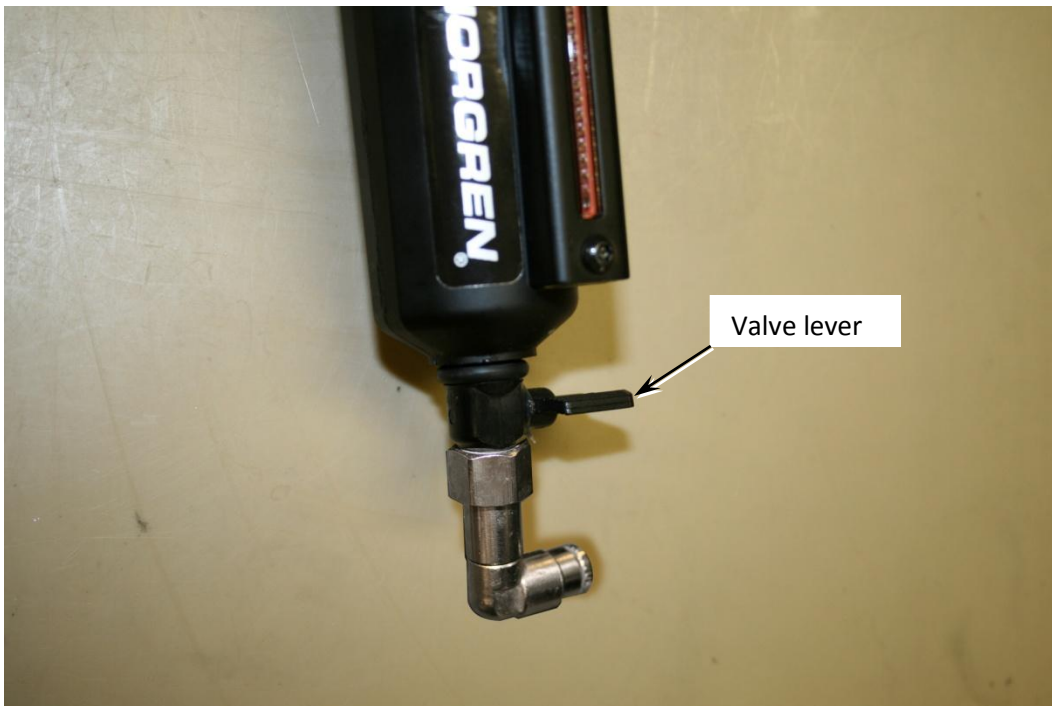
16. Apply Teflon tape to each of the two elbows, going three times around ensuring a good seal.



17. Insert the two elbows in the filter body using an 11/16 wrench, turning it clockwise until snug.



18. Take the filter bowl and turn the valve lever 90° to the off position.



19. Take a 9/16 wrench and remove the elbow from the bowl housing.



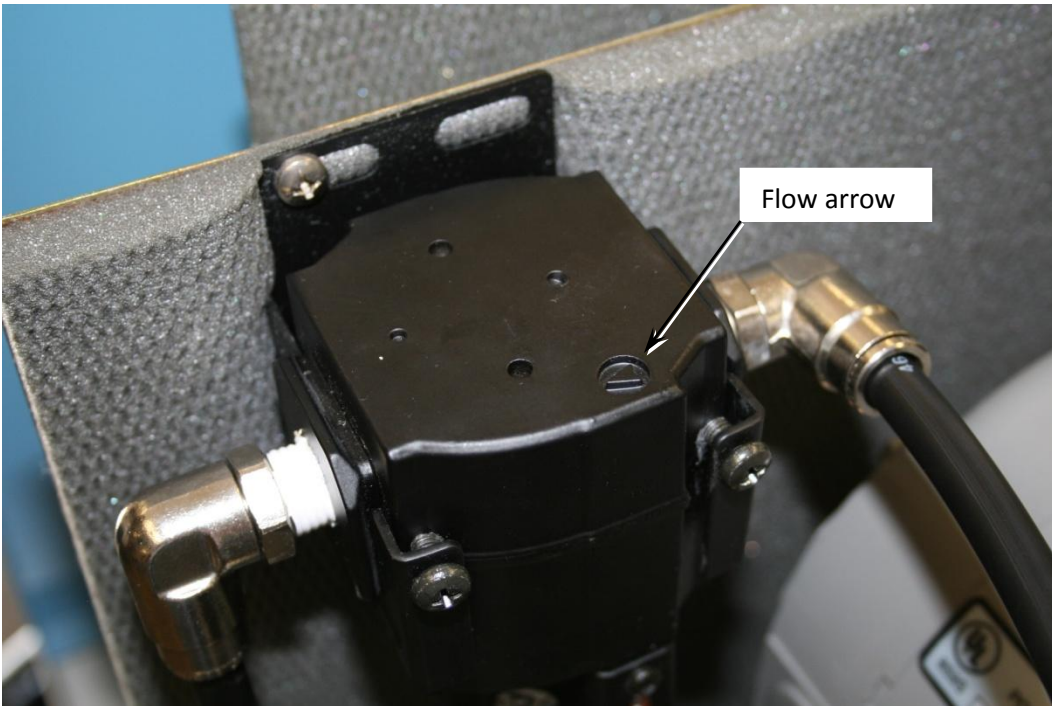
20. Apply Teflon tape to the new filter bowl housing and put the elbow back on.



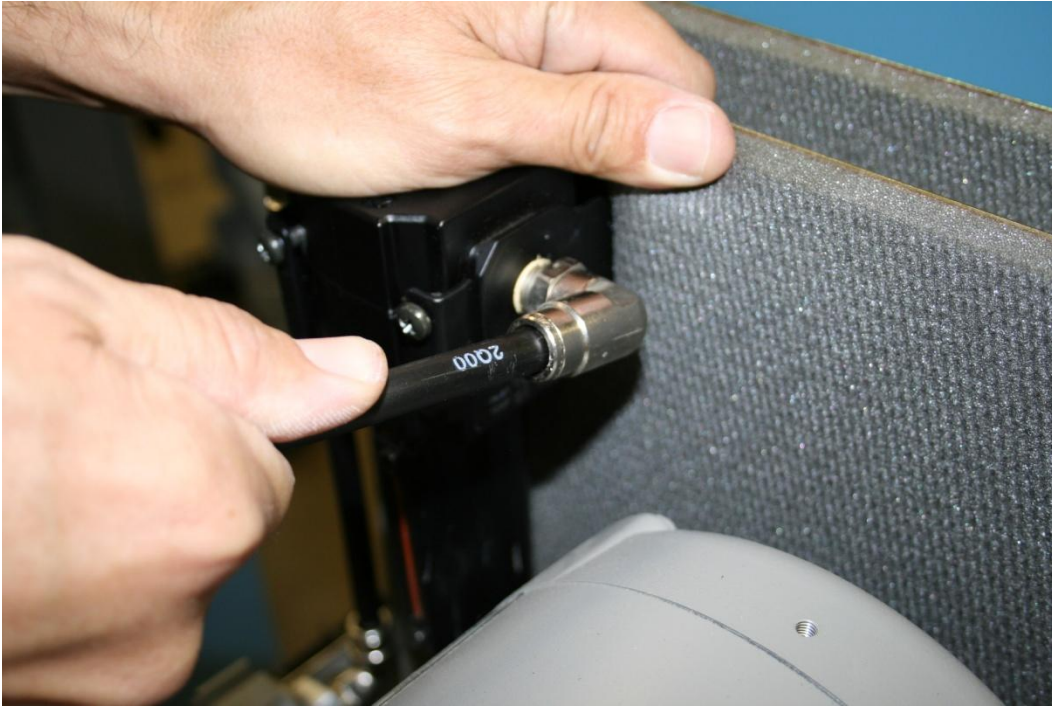
21. Turn the valve lever 90° to the on position.



22. Put the new filter assembly back in the air compressor system making sure that the flow arrow is facing towards the left and that the water level indicator is facing the inside.



23. When replacing the tubes in the filter assembly, you need to push firmly on all the tubes into each elbow.



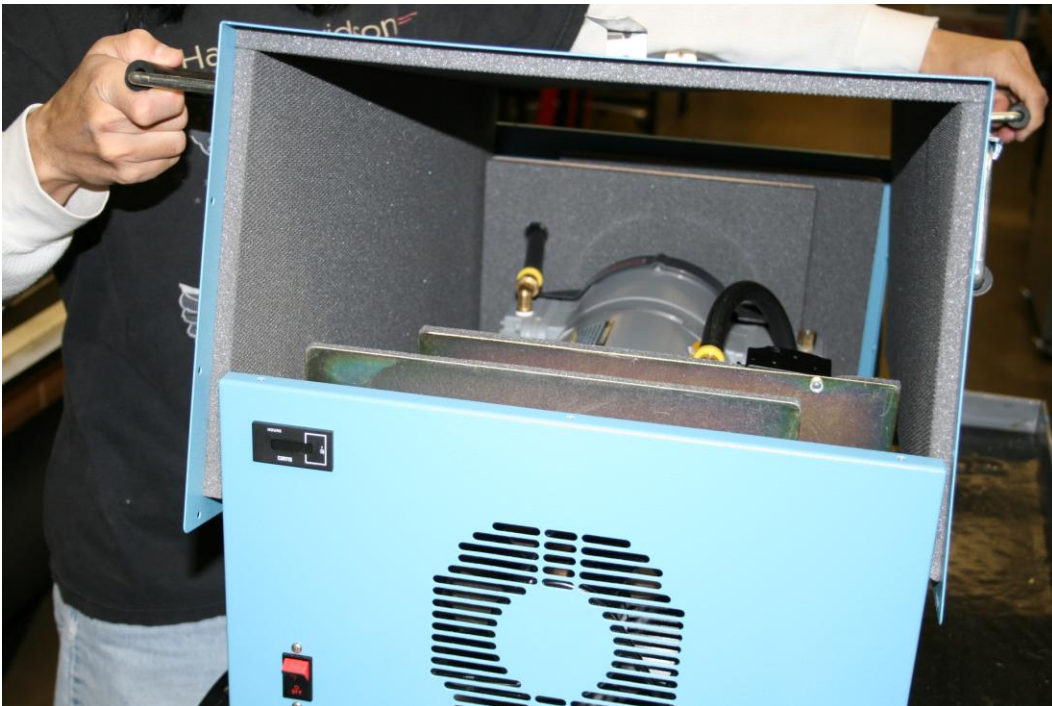
24. Push down on the clamps that hold the air dryer in place.



25. Tighten the screws that secure the filter assembly.



26. Slide the cover back on.



27. Put all cover panel screws back.



28. Reconnect the air hose and power connection.

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.