

Humidity Generation and Calibration Equipment

THUNDER SCIENTIFIC
CORPORATION THE HUMIDITY SOURCE

Model 2500

Test Chamber Fluid Draining Procedure



Tech Support Document TSD-0208

Revision Date: April 4, 2023

Rev-B

623 WYOMING BLVD. SE



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PROCEDURE FOR DRAINING THE FLUID FROM THE 2500 TEST CHAMBER

Required

You will need to drain the chamber fluid before you transport or ship the 2500 system back to the Thunder factory for repair service or for yearly calibration. The fluid can be reused after repair and calibration is complete. A clean container should be used to drain an approximate 3 gallons of fluid. The following photos will give you a step by step procedure to complete the chamber fluid draining process. See Tech Note TSD-0208.

Protective Gear

For this procedure it is recommended that the technician wear gloves and safety goggles.



Description

The fluid used in the 2500 chamber fluid circulation loop is propylene glycol and distilled water. These two fluids are mixed to prevent freezing of the fluid during operation at temperatures near or below 0°C. Please contact Thunder Tech Support at 1-800-872-7728 or e-mail support@thunderscientific.com should you have problems or questions while using this procedure. Please e-mail your comments and suggestions to quality@thunderscientific.com.

Precautions

You must drain the 2500 test chamber before shipment. Failure to do so could result in permanent damage to your 2500 Calibration system. It is also important to refill the chamber to the correct level for proper operation of the 2500 Calibration system. See Tech Note TSD-0207 for the fluid filling procedure.

2500 Test Chamber Fluid Draining Procedure

1. Turn off the main power to the 2500 system.



2. Make sure any air to the system is off.



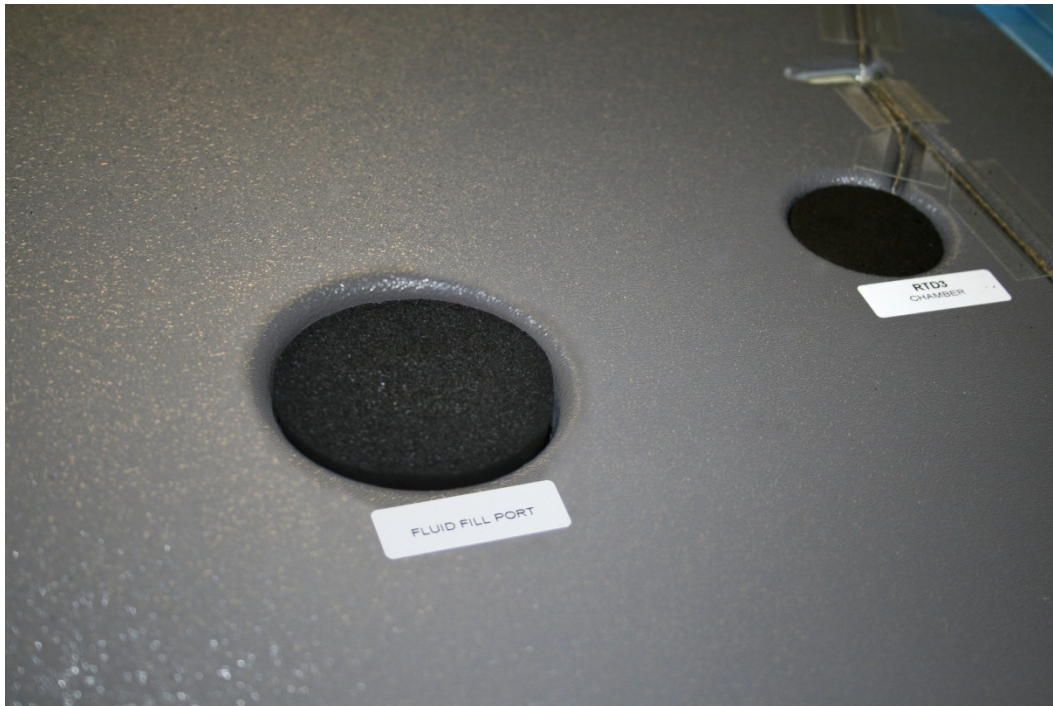
3. Remove the top right hand panel, over the chamber, using the Torx screwdriver provided.



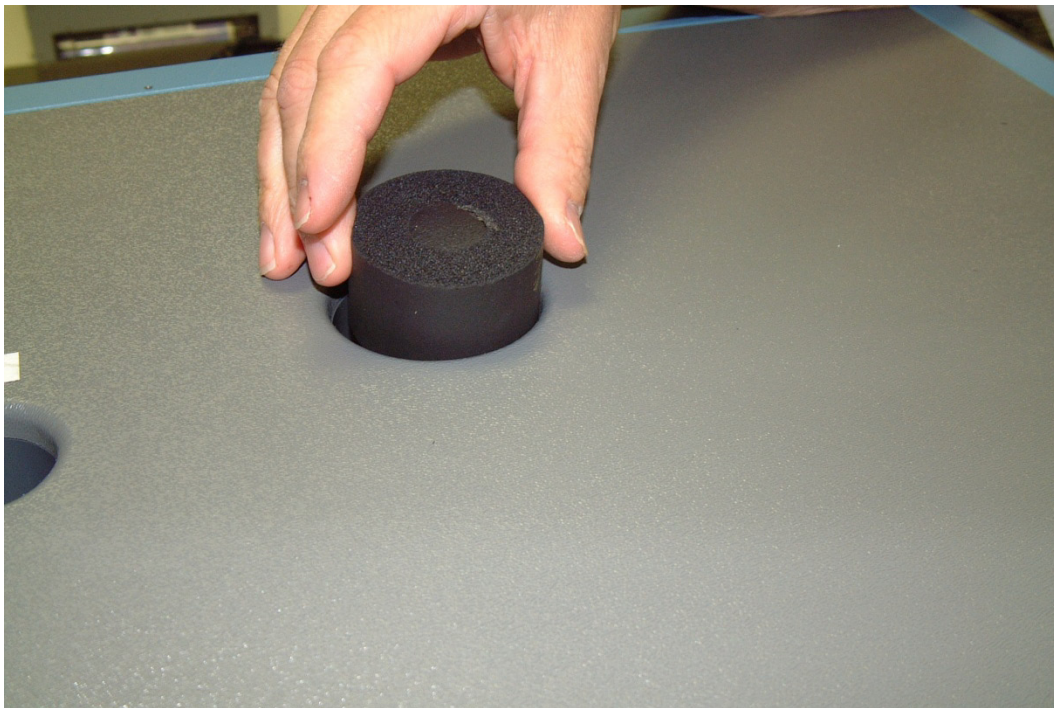
4. Lift off the chamber top panel.



1. Locate the chamber fluid fill port.



2. Remove the fluid fill port insulation plug.



3. Remove the "Red" plastic fill port plug cap.



4. Remove the rear left hand panel using the Torx screwdriver provided.



5. Locate the test chamber drain hose on the lower left side of the compartment.



6. Depending on the year of your system you may need to use two wrenches to loosen the drain.



7. Take the drain hose and crimp it in half to prevent any leakage.



8. Remove the drain plug nut or knurled cap.



9. Release the fluid into a container large enough to hold approximately three gallons of fluid. Make sure the container is clean as this fluid can be reused.



10. Once all the fluid is drained replace the knurled cap.



11. Tuck back the drain hose into the pump compartment.



12. Replace the rear left hand panel.



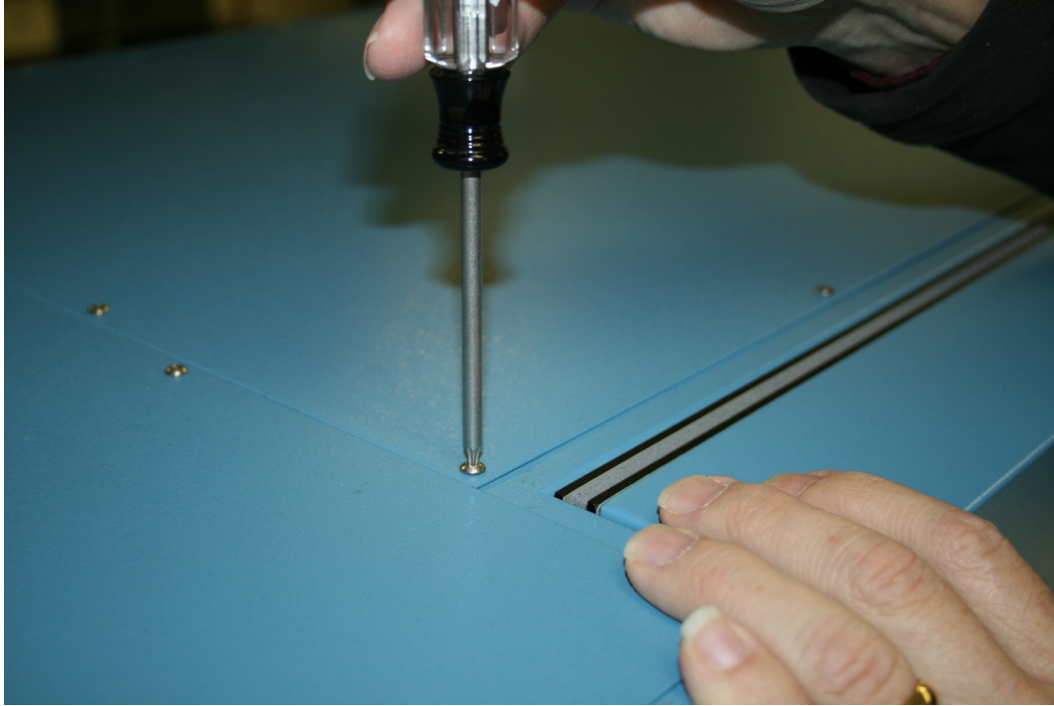
13. Replace the “Red” plastic fill port plug cap.



14. Put back the fluid fill port insulation.



15. Replace the chamber top panel.



16. Chamber fluid draining is now complete.

17. The 2500 humidity generator can now be shipped.

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