

Model 3900 Methanol Filling Procedure



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623 WYOMING BLVD. SE



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3900 Methanol Filling Procedure

Equipment Required:

- 1. 1.5 gallons (5.675 Liters) of anhydrous methanol
- 2. 7/8" (23 mm) socket with 6" (0.15 m) extension
- 3. 3/16" (4.5 mm) ball/hex driver (to remove counter top bolts)
- 4. 3/8" (9.5 mm) ball/hex driver (to remove Methanol Expansion Tank Fill Port Plug)
- 5. Funnel
- 6. Gloves and goggles



Reference Drawings:

At the end of procedure 08D39922 Methanol Fill Level, and 18D39923 Counter Top Mounting Locations

CAUTION!

METHANOL IS FLAMMABLE AND POISONOUS

Keep away from sparks, flames, or other ignition sources. Avoid prolonged or repeated breathing of vapors or contact with skin. Do not allow material to contaminate water sources.

- 1. Make sure the main power source is not connected.
- 2. Remove left and right side console panels.



3. Using 3/16" ball/hex driver, remove 4 securing bolts near corners, and remove counter top.





4. Locate and remove RTD1 access insulation.



5. Get the 7/8" socket with 6" extension.



6. Remove the Saturator Methanol Fill Port Cap from the top of the saturator.



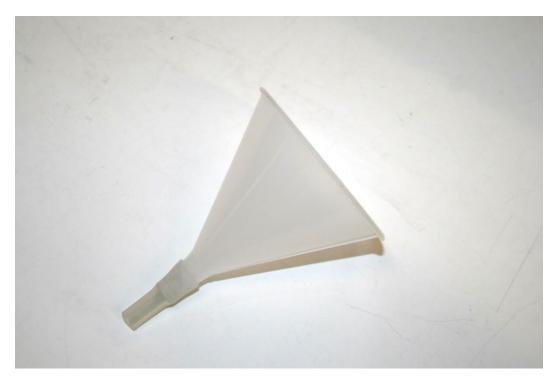
7. Remove circular insulation and the Methanol Expansion Tank Fill Port Plug.



8. Using a 3/8" (9.5 mm) ball/hex driver remove Methanol Expansion Tank Fill Port Plug.



9. Insert the funnel into the Methanol Expansion Tank Fill Port. Slowly and carefully fill the saturator assembly until methanol is observed just below the Saturator Methanol Port Fitting located on top of the saturator (in the square insulation area).

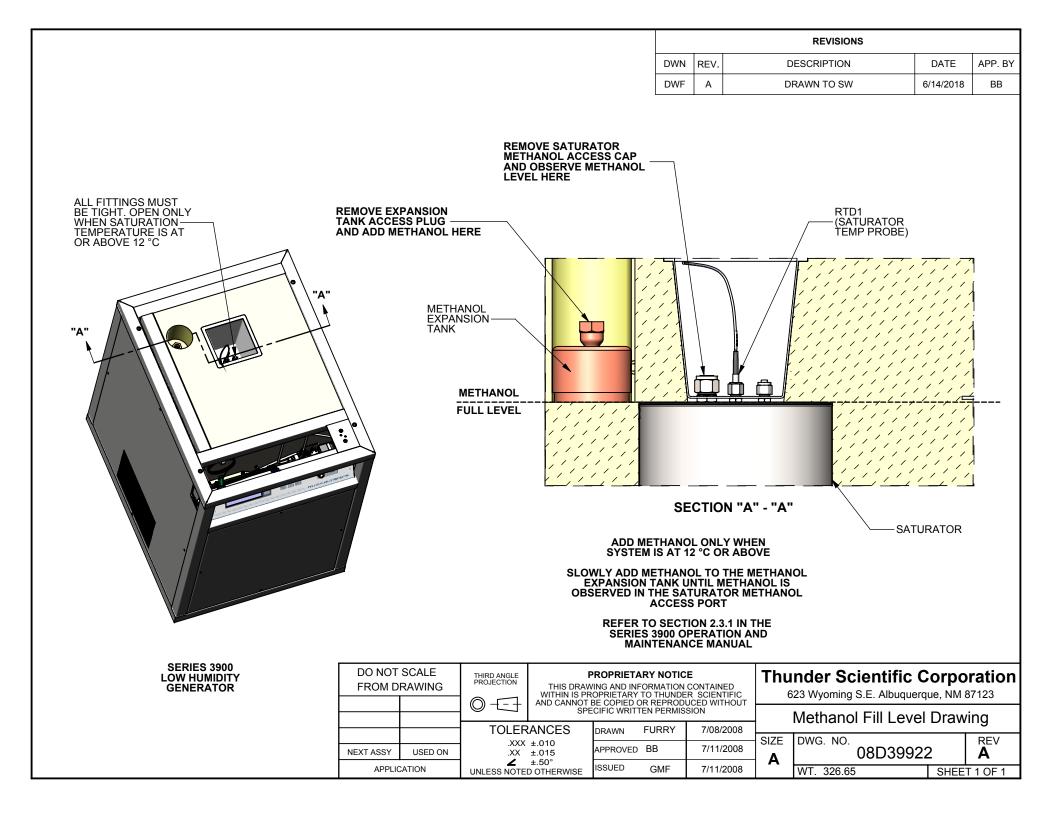


Note - The methanol must be added slowly as it is being gravity fed through 3/8" tubing between the methanol expansion tank and the saturator. Do not allow funnel to fill.

Methanol degrades the urethane foam insulation; sponge dry any methanol spilled during the filling operation!

- 10. Replace the saturator methanol port cap (tighten 1/4 turn past finger tight).
- 11. Replace methanol expansion tank fill port plug.
- 12. Replace all insulation.
- 13. Replace counter top tighten screws just snug do not over tighten as the inserts in the counter top can be damaged.
- 14. Replace both right and left console panels.

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



		REVISIONS		
	1	OWN REV.	DESCRIPTION	DATE APP. BY
Remove Right AND LEFT SIDE PANELS Scores The #10 Socket Head Screeds			/	DATE APP. BY
NEXT ASSY USED ON	WITHIN IS PROPRIETARY TO TH	TION CONTAINED JNDER SCIENTIFIC RODUCED WITHOUT RMISSION RY 11/30/2018 B 11/30/2018	Thunder Scientific623 Wyoming S.E. AlbuqueCounter Top MountiSIZEDWG. NO.A18D3992WT. 448.37	ng Locations