

# Technical Service Bulletin

**MODEL(S)  
AFFECTED:**

**Tennant 7400 Machines equipped with GM 1.6 LP engines only.  
Refer to TSB 108 for 7400 machines equipped GM 1.6 Gasoline engines.  
Refer to TSB 108 for 6600, 6650, 8200, 8210 machines equipped GM 1.6 LP  
and Gasoline engines.**

**SUBJECT:**

GM 1.6 LP engines overheating due to air in the coolant system preventing the system from completely fill with coolant.

**PURPOSE:**

Ensure the coolant system is completely filled with coolant and all air is out of the coolant system.

**NOTES:**

**WARNING: DO NOT remove the radiator cap from the radiator when the engine is hot. Allow engine to cool before removing the radiator cap.**

**SERIOUS ENGINE DAMAGE COULD RESULT IF THIS PROCEDURE IS NOT FOLLOWED!**

Questions, contact the Tennant Customer Service Department at (800) 553-8033 or (763) 513-2850.

1. Place the PVC tubing from the thermostat housing into a bucket, drain pan, or other suitable container to prevent fluid from running onto the floor.

2. Check to ensure the drain cock at the vaporizer is closed.  
Refer to Fig. 1.



Fig. 1

3. Open the drain cock at the thermostat housing. Refer to Fig. 2.

4. Remove the radiator cap from the radiator and fill the radiator with coolant. Continue adding coolant to radiator until a steady stream is coming from the drain cock. Refer to Fig. 2.

5. Close the drain cock and remove the clear PVC hose from the container. Refer to Fig. 2.



Fig. 2

6. Place the PVC tubing from the vaporizer in container to prevent coolant from running onto the floor. Refer to Fig. 3.

7. Open drain cock at the vaporizer. Refer to Fig. 3 and Fig. 1.

8. Pour more coolant into the radiator. Continue adding coolant until a steady stream is coming from the drain cock. Refer to Fig. 3 and Fig. 1.



Fig. 3

9. Pinch the hose between the vaporizer and the metal line located at the side of the engine block. Refer to Fig. 4.



Fig. 4

10. Pour more coolant into the radiator. Continue adding coolant until a steady stream, with no air bubbles, is coming from the drain cock. Refer to Fig. 5.

*Note: It may be necessary to empty the container several times before all air is removed from the system.*

11. Close the drain cock at the vaporizer. Refer to Fig. 3.

12. Unclamp the heater hose. Refer to Fig. 4.

13. Reinstall the radiator cap onto the radiator.

14. Run engine for 10 to 15 minutes to ensure thermostat opens and closes several times. Add coolant as needed.

**WARNING: DO NOT remove the radiator cap from the radiator when the engine is hot. Allow engine to cool before removing the radiator cap.**

**WARNING: Moving belt and fan, Keep away.**

**FOR SAFETY: Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.**

15. Operate machine (sweep or scrub) for 10 to 15 minutes. Check the coolant level. If necessary, add coolant.



Fig. 5