

PREVOST

Instruction Sheet

IS-99004

SUMP TANK INSTALLATION GUIDE FOR H3 SERIES VEHICLES AND AUXILIARY SUMP TANK INSTALLATION GUIDE FOR XL-45 SERIES VEHICLES

MATERIAL

For **H3 series** vehicles :

Part No	Description	Qty
404862	Sump tank	1
404337	Heating coil (required only for sump tank with heating system option)	1
5011027	FP nut #10 (required only for sump tank with heating system option)	2
5011028	FP ferrule #10 (required only for sump tank with heating system option)	2
IS-99004	Instruction Sheet	1
FI-99004	Feuille d'instructions	1

For **XL-45 series** vehicles :

Part No	Description	Qty
404872	Auxiliary sump tank	1
404337	Heating coil (required only for auxiliary sump tank with heating system option)	1
5011027	FP nut #10 (required only for auxiliary sump tank with heating system option)	2
5011028	FP ferrule #10 (required only for auxiliary sump tank with heating system option)	2
IS-99004	Instruction Sheet	1
FI-99004	Feuille d'instructions	1

H3 SERIES VEHICLES

PROCEDURE

Warning : Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

1. Open engine R.H. side door (figure 1) .
2. Drain sump tank as per the operator's manual.
3. To properly wash the sump tank, fill with fresh water and drain it once again.
4. Open the main power compartment door (figure 1) and set the battery master switch to the OFF position (figure 2).
5. In the engine R.H. side compartment, disconnect the pump connector C126 (figure 3).
6. Using a 10mm wrench, unscrew fixing bolts of pump box cover (figure 3).
7. Remove pump box. Remove and clean the gasket between the pump box cover and the sump tank. It is not necessary to remove the flexible hose.

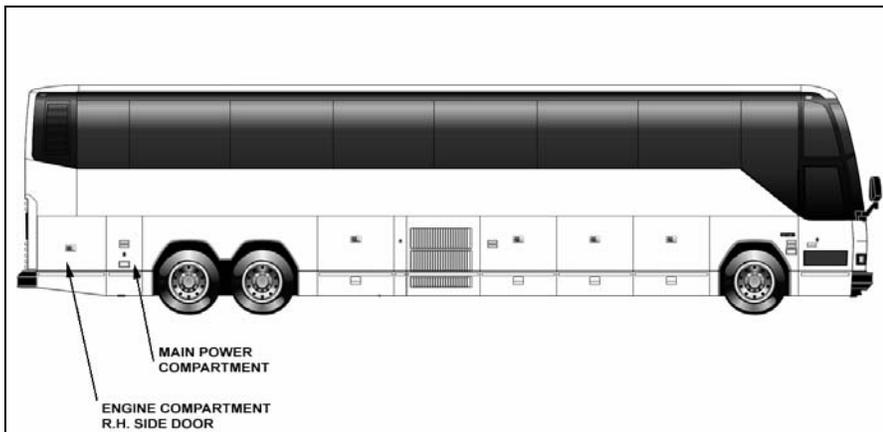


FIGURE 1 : ACCES DOORS AND COMPARTMENTS

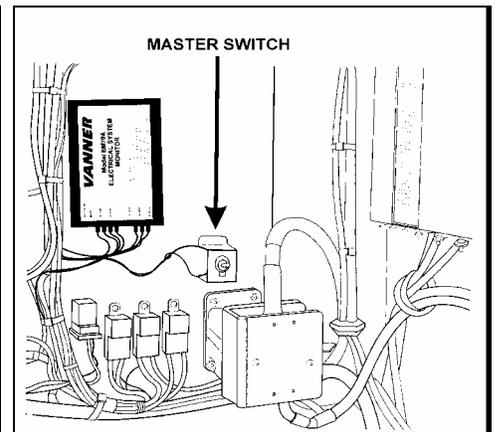


FIGURE 2 : MAIN POWER SWITCH

8. Under the vehicle, locate the drain cap of the sump tank. Unscrew the 4 bolts and remove the plate, the adapter and the gasket (figure 4).
9. In the engine R.H. side compartment, unscrew the purge valve mounting plate (figure 3) and remove the purge valve assembly from the sump tank (figure 4). Make sure that you have the gasket located at the base of the assembly, if not, it has fallen in the bottom of the tank.
10. Close the heating system (option) valves on the sump tank (figure 3).
11. Unscrew the heating system fitting to remove the hoses (figure 4).
12. Loosen the hose clamp on the drain pipe and remove the drain pipe from the sump tank (figure 3).
13. Loosen the hose clamp on the overflow hose and remove the hose (figure 3).

14. Unscrew the 6 bolts on the sump tank pan (figure 6) and remove the pan from underneath the vehicle.
15. Unscrew the fixing bolts on the side of the pan to remove the sump tank from the pan (figure 4).
16. Remove the water tank overflow fitting (figure 5).
17. Remove the non-return valve on the sump tank (figure 5).
18. Unscrew the fixation bolts on the heating system (see detail on figure 4). Cut the heating coil with an hacksaw and remove the heating system from the sump tank (figure 4).
19. For sump tank equipped with the heating system, drill holes on the new sump tank for the heating coil installation. Use the alignment marks and drill 2 holes $\varnothing 8\text{mm}(5/16\text{'})$ and 2 holes $\varnothing 16\text{mm}(5/8\text{'})$ (figure 6).
20. Install the non-return valve on the new sump tank (figure 5).
21. Install the water tank overflow fitting on the new sump tank (figure 5).

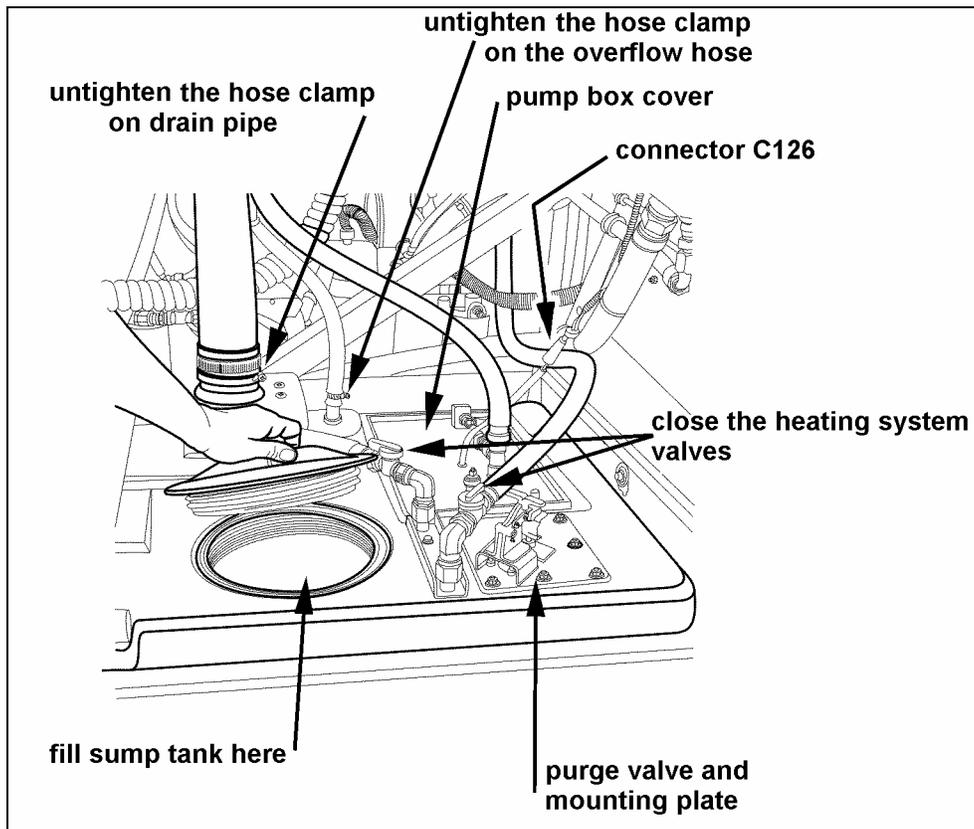


FIGURE 3 : SUMP TANK WITH COMPONENTS

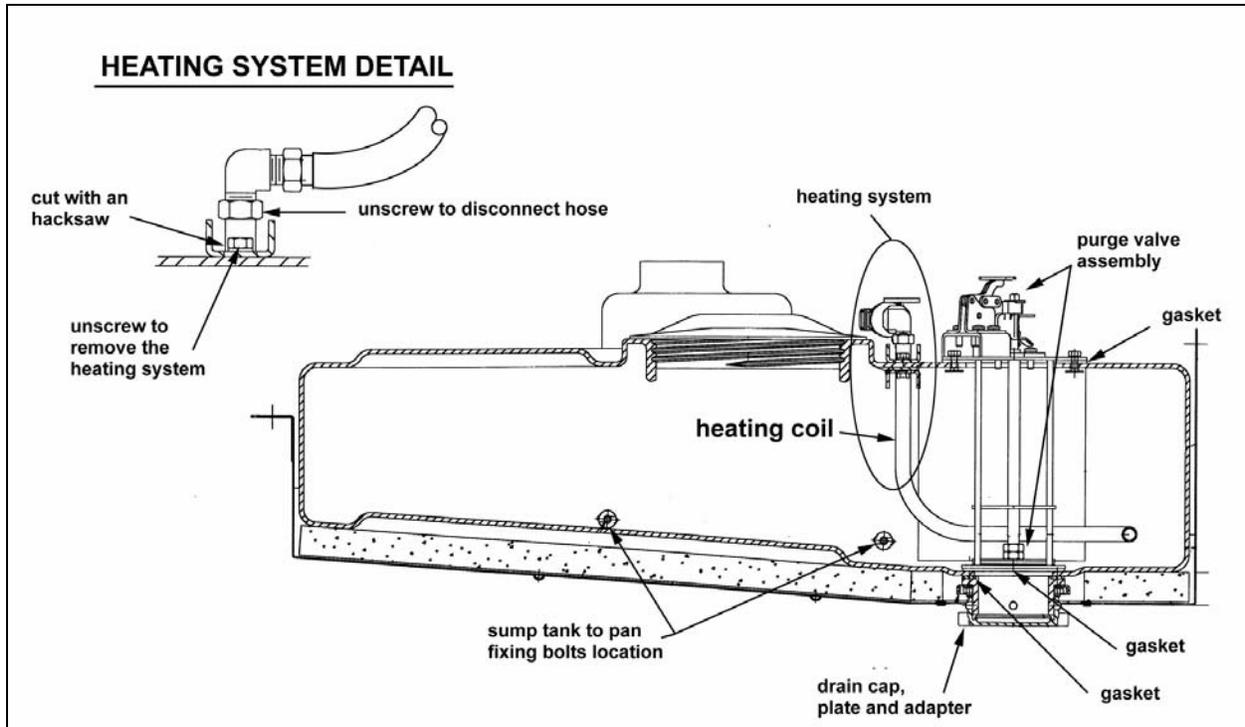


FIGURE 4 : CROSS-SECTION VIEW OF SUMP TANK (H3) AND AUXILIARY SUMP TANK (XL)

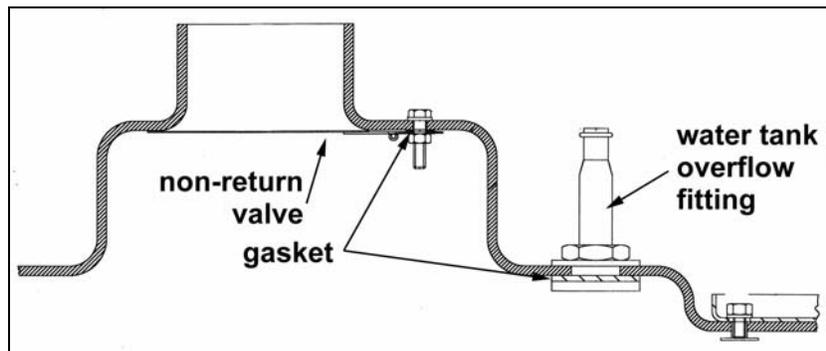


FIGURE 5 : SUMP TANK DETAIL

22. Install the new sump tank in the pan and screw the fixing bolts.
23. Put back the pan and sump tank assembly underneath the vehicle structure and screw the 6 bolts on the sump tank pan (figure 6).
24. Put back the drain pipe on the sump tank and tighten the hose clamp (figure 3).
25. Connect the water tank overflow hose on the new sump tank and tighten the hose clamp (figure 3).

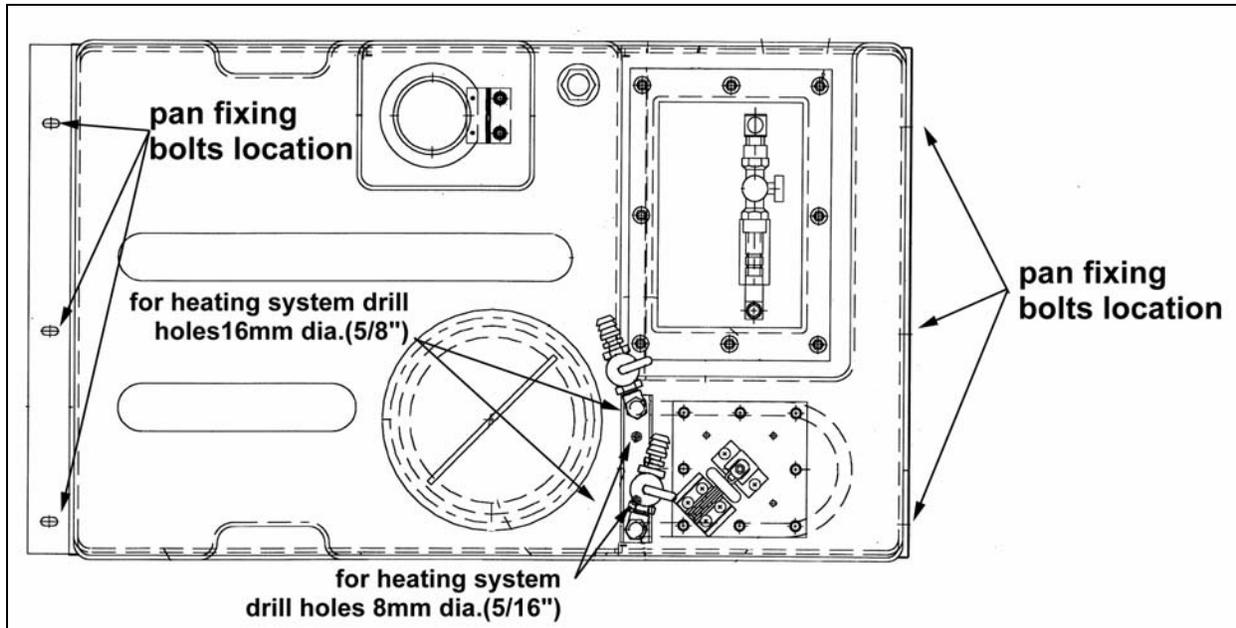


FIGURE 6 : TOP VIEW OF THE SUMP TANK

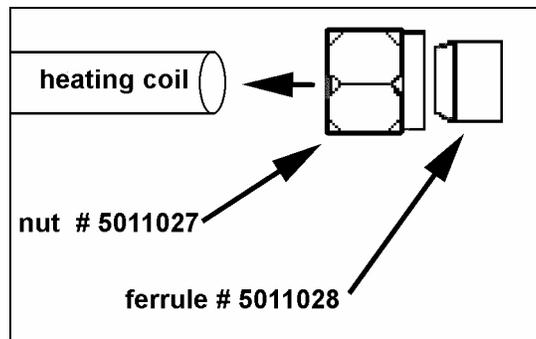


FIGURE 7 : INSTALLATION OF FITTING ON HEATING COIL

26. Install the pump box (figure 2). To improve the gasket efficiency, it is recommended to put butyl sealant on the gasket.
27. Install the heating coil on the new sump tank.
28. Connect the pump connector C126 (figure 3).
29. Slide nut # 5011027 and ferrule # 5011028 on the heating coil (figure 7). Connect the heating system hoses to the heating coil fittings (figure 4).
30. Install the purge valve (figure 4) on the new sump tank. Make sure that the gasket (figure 4) is properly placed at the bottom of the assembly. Under the vehicle, put back the gasket, the adapter and the drain cap. Screw the 4 bolts (figure 4).
31. Fill the sump tank as per the operator's manual.
32. In the main power compartment, set the battery master switch to the "ON" position (figure 2).

33. The installation is now completed. Close all compartment doors.

XL-45 SERIES VEHICLES

PROCEDURE

Warning : Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

1. Open engine R.H. side door (figure 8).
2. Drain auxiliary sump tank as per the operator manual.
3. To properly wash the auxiliary sump tank, fill with fresh water and drain it once again.
4. Set the battery master switch to the "OFF" position. The battery master switch is located in the main power compartment (figure 8).
5. Under the vehicle, locate the drain cap of the auxiliary sump tank. Unscrew the 4 bolts and remove the plate, the adapter and the gasket (figure 4).

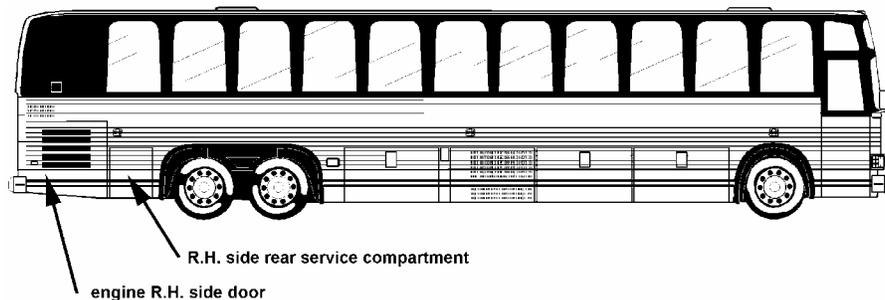


FIGURE 8 : ACCES DOORS AND COMPARTMENTS

6. In the engine R.H. side compartment, unscrew the purge valve mounting plate (figure 9) and remove the purge valve assembly from the auxiliary sump tank (figure 4). Make sure that you have the gasket located at the base of the assembly, if not, it has fallen in the bottom of the tank.
7. Close the heating system (option) valves on the auxiliary sump tank (figure 9).
8. Unscrew the heating system fitting to remove the hoses (figure 4).
9. Untighten the hose clamp on the drain pipe and remove the drain pipe from the auxiliary sump tank (figure 9).
10. Untighten the hose clamp on the sump tank overflow hose and remove the hose (figure 9).
11. Untighten the hose clamp on the water tank overflow hose (figure 9).

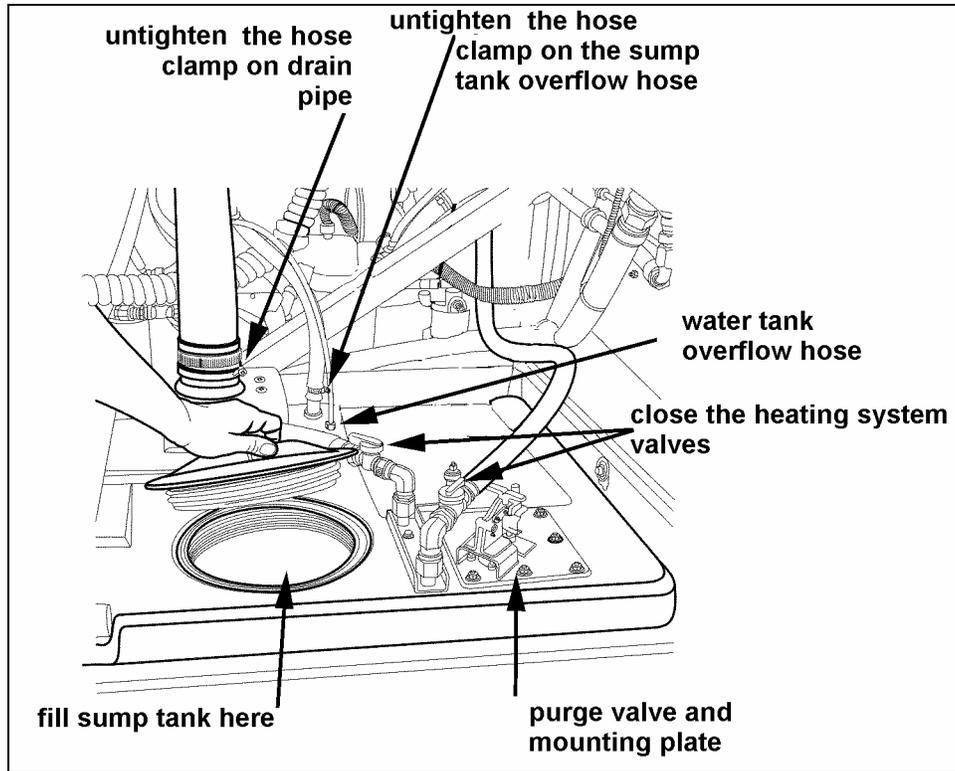


FIGURE 9 : AUXILIARY SUMP TANK WITH COMPONENTS

12. Unscrew the 6 bolts on the auxiliary sump tank pan (figure 10) and remove the pan from underneath the vehicle.
13. Unscrew the fixing bolts on the side of the pan to remove the auxiliary sump tank from the pan (figure 4).
14. Remove the water tank overflow fitting and the sump tank overflow fitting (figure 11).
15. Unscrew the fixation bolts on the heating system (see detail on figure 4). Cut the heating coil with an hacksaw and remove the heating system from the auxiliary sump tank (figure 4).
16. For sump tank equipped with the heating system, drill holes on the new sump tank for the heating coil installation. Use the alignment marks and drill 2 holes $\varnothing 8\text{mm}(5/16\text{'})$ and 2 holes $\varnothing 16\text{mm}(5/8\text{'})$ (figure 10).
17. Install the heating coil on the new auxiliary sump tank (figure 4).
18. Install the water tank overflow fitting and the sump tank overflow fitting on the new auxiliary sump tank (figure 11).
19. Install the new sump tank in the pan and screw the fixing bolts.
20. Put back the pan and sump tank assembly underneath the vehicle structure and screw the 6 bolts on the sump tank pan.
21. Put back the drain pipe on the sump tank and tighten the hose clamp (figure 9).

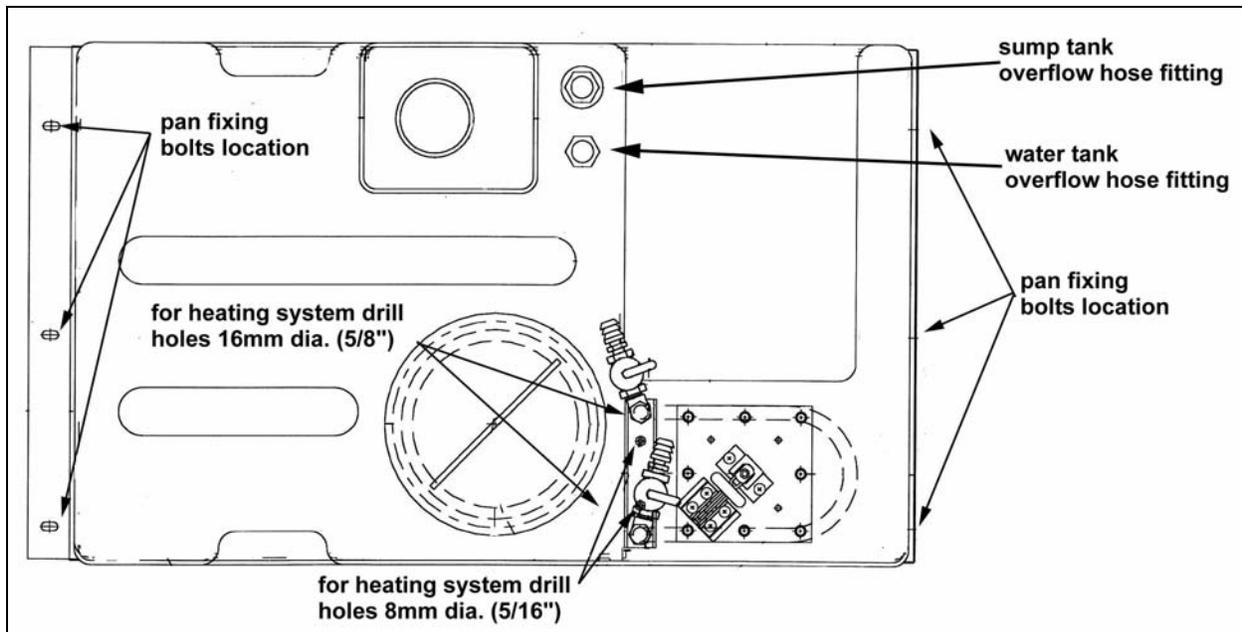


FIGURE 10 : TOP VIEW OF THE AUXILIARY SUMP TANK

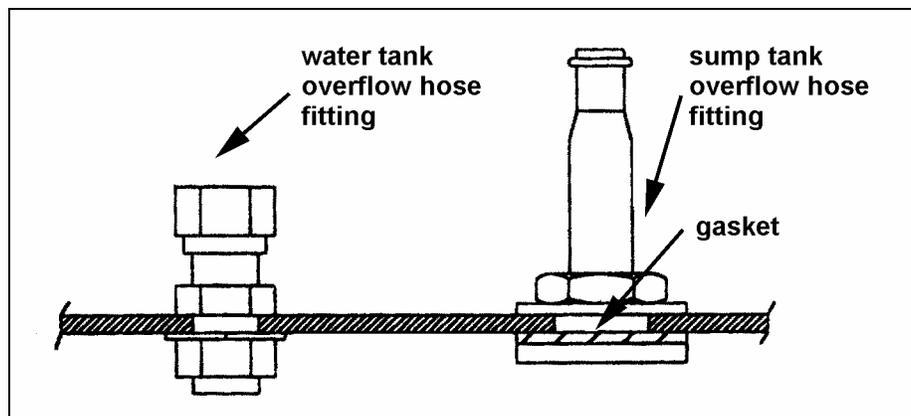


FIGURE 11 : AUXILIARY SUMP TANK DETAIL

22. Connect the water tank overflow hose and the sump tank overflow hose on their respective fitting on the new auxiliary sump tank and tighten the hose clamps (figure 9)
23. Slide nut # 5011027 and ferrule # 5011028 on the heating coil (figure 7). Connect the heating system hoses to the heating coil fittings (figure 4).
24. Install the purge valve (figure 4) on the new auxiliary sump tank. Make sure that the gasket (figure 4) is properly placed at the bottom of the assembly. Under the vehicle, put back the gasket, the adapter and the drain cap.
25. Set the battery master switch to the "ON" position.
26. The installation is now completed. Close all compartment doors.