



Cooling System Draining, Filling and Bleeding (26.10.01)



WARNING: Since injury such as scalding could be caused by escaping steam or coolant, do not remove the filler cap from the coolant expansion tank while the system is hot.

- 1 . Position the vehicle on a lift.
- 2 . Set the heater controls to maximum.
- 3 . Disconnect the battery ground cable.
[Specifications](#)

- 4 . Remove the engine cover.
[Engine Cover - 4.0L \(12.30.50\)](#)

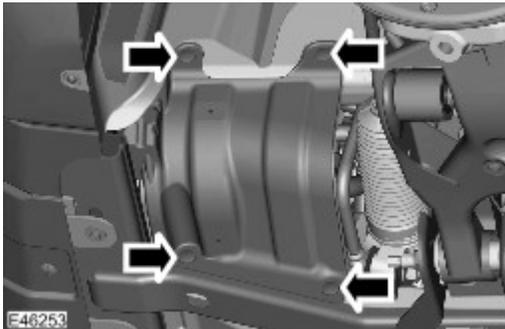
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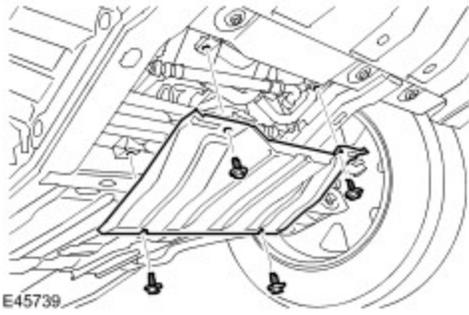
WARNING: Since injury such as scalding could be caused by escaping steam or coolant, do not remove the filler cap from the coolant expansion tank while the system is hot.

Remove the coolant expansion tank cap.

- 6 . Remove the front LH splash shield.
 - Remove the 4 clips.



- 7 . Remove the radiator access panel.
 - Remove the 4 bolts.



8 . Position a container to collect the fluid.

9 .



CAUTION: Engine coolant will damage the paint finished surfaces. If spilt, immediately remove the coolant and clean the area with water.

Release the clip and disconnect the radiator lower hose, allow the coolant to drain.



10 . Remove the container.

11 . Connect and secure the radiator lower hose.

- Secure with the clip.

12 . Connect the battery ground cable.

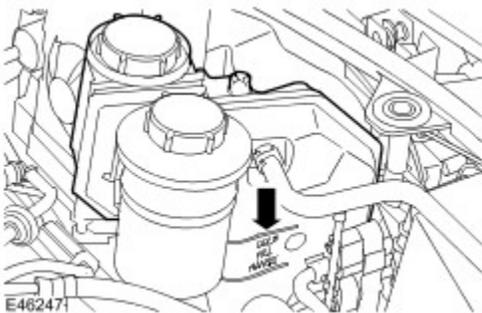
[Specifications](#)

13 . Connect exhaust extraction hoses to the tail pipes.

14 . Loosen the coolant expansion tank bleed screw.



- 15 . Fill the cooling system to the upper level mark of the expansion tank.
- 16 . Start and run the engine.
 - Hold the engine speed at 2,500 RPM for 30 seconds.
 - Return the engine to idle for 30 seconds.
 - Repeat the above procedure a further four times.
- 17 . Fill the cooling system, keeping coolant to the upper level mark of the expansion tank until a steady stream of coolant is seen returning to the expansion tank. Tighten the bleed screw.
- 18 . Install the coolant expansion tank cap.



- 19 . Run the engine until the thermostat opens.
- 20 . Check the heater for correct operation.
- 21 . Switch the engine off and allow to cool.
- 22 . Install the engine cover.
[Engine Cover - 4.0L \(12.30.50\)](#)
- 23 . Clean any remaining coolant from the chassis and surrounding area.
- 24 . Install the radiator access panel.
 - Tighten the 4 bolts to 10 Nm (7 lb.ft).
- 25 . Install the front LH splash shield.
- 26 . **NOTE :**
When the cooling system is warm, the coolant will be approximately 30mm above the upper level mark on the expansion tank with the cap fitted.

Check and top-up the coolant if required.