

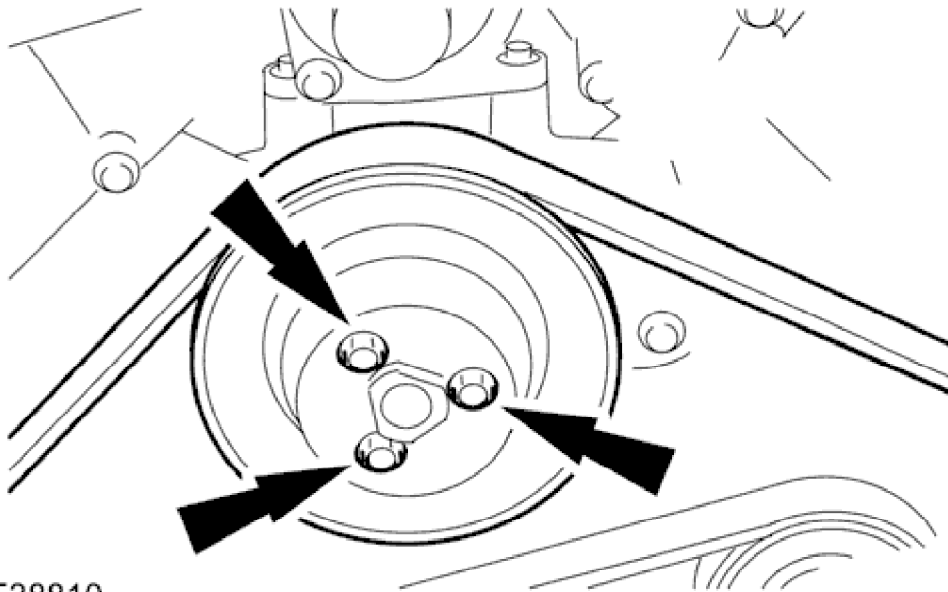
1998 XJ RANGE - Engine Cooling - 303-03A

Water Pump Vehicles Without: Supercharger 26.50.01

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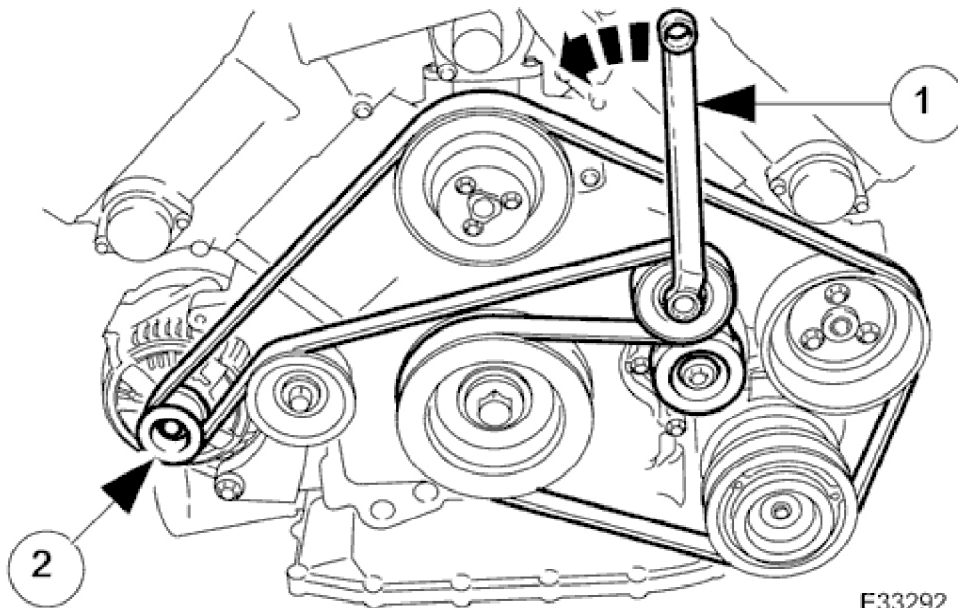
Removal

1. Open the engine compartment and fit paintwork protection sheets.
2. Drain the cooling system. <<Cooling System Draining, Filling and Bleeding - Vehicles Without: Supercharger>>



E38810

3. Slacken the three screws which secure the water pump pulley.



E33292

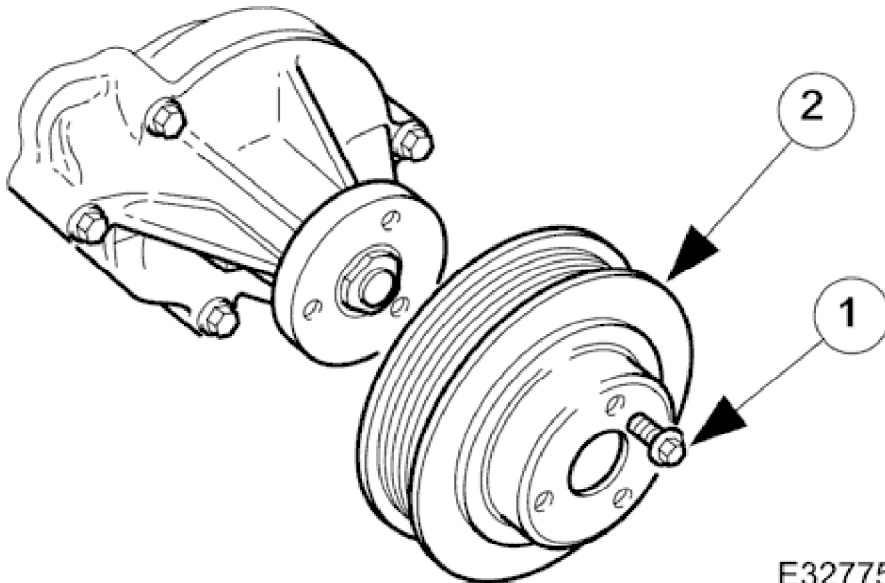


4. **CAUTION:**
When releasing the belt tension, never apply any torque in a clockwise direction to the pulley centre bolt (left hand thread) as it could subsequently loosen.

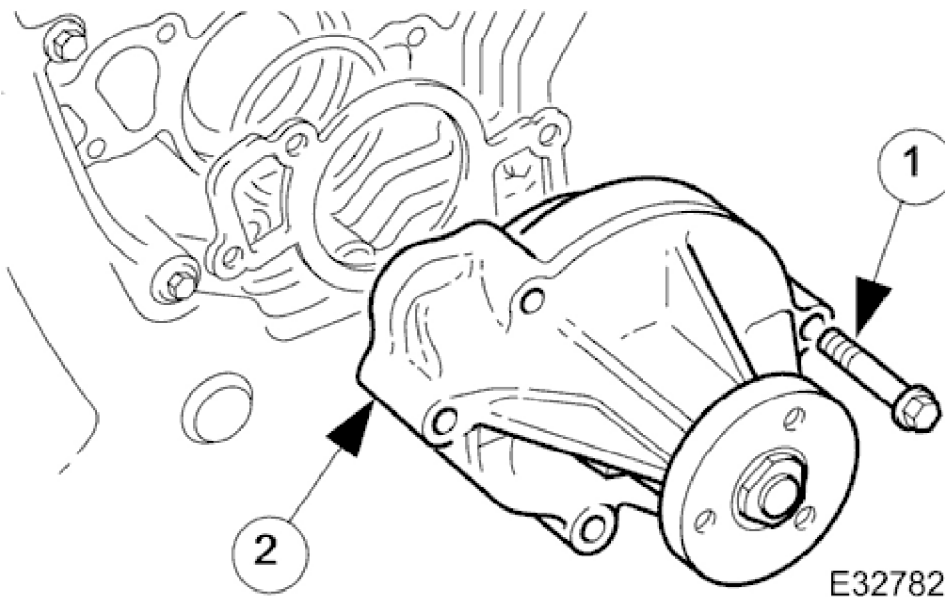
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Remove the drive belt from the generator and accessory drive.

1. Use a spanner e.g. Churchill JD-230 or Snap On XDHM 1415, on the centre bolt of the belt tensioner idler pulley, to turn the adjuster assembly to the left against spring tension.
 2. Whilst holding the tensioner against spring tension, remove the drive belt from the generator pulley.
Release the tensioner slowly and remove the spanner.
- Disconnect the belt from the other pulleys, as necessary, to move it clear of the pump pulley.

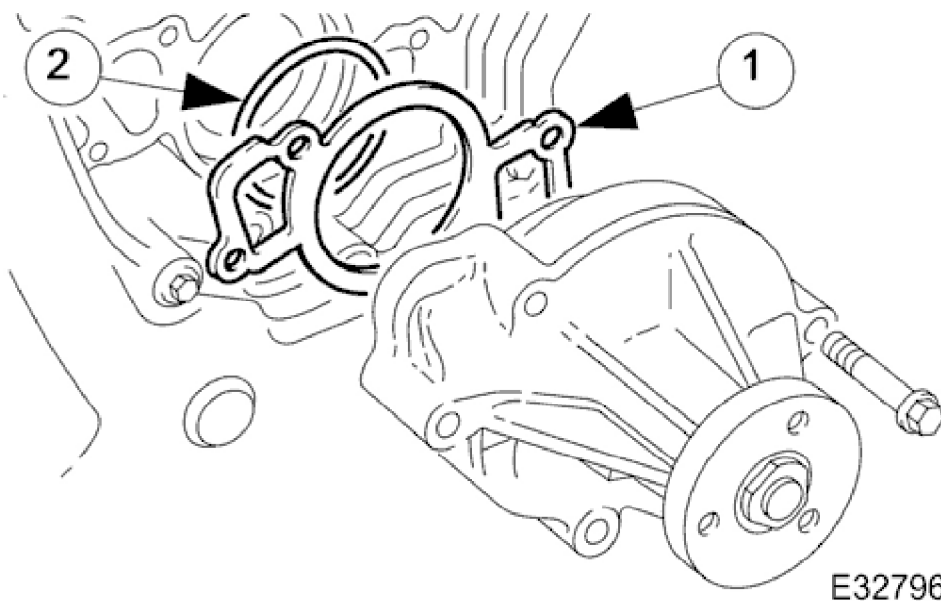


5. Remove the pulley from the water pump.
 1. Remove the pulley securing screws.
 2. Remove the pulley from the water pump.



6. Remove the water pump.
 1. Remove the five bolts which secure the water pump.
 2. Remove the water pump from the engine.

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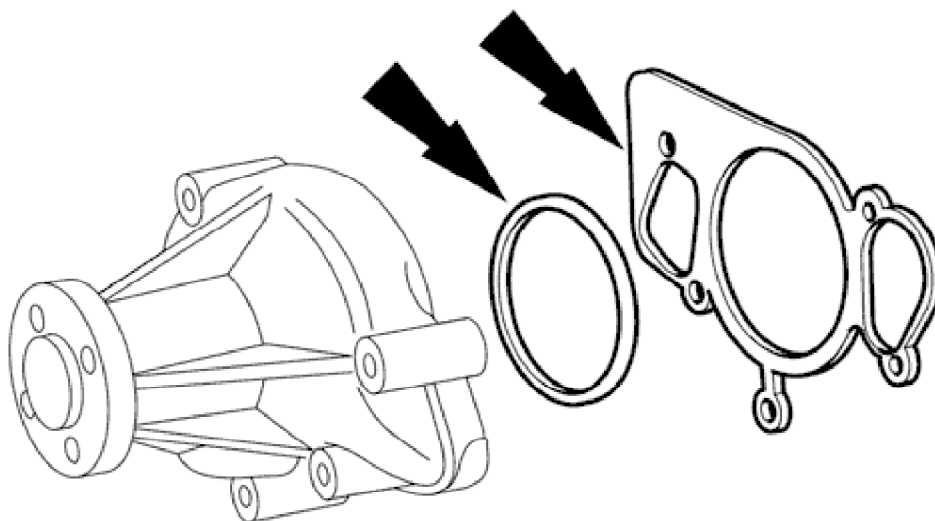


7. Remove the gasket.
 1. Remove and discard the water pump gasket.
 2. Remove and discard the water pump O-ring seal.

8. Clean any coolant spillage from the engine compartment.

9. Clean all relevant parts and sealing faces.

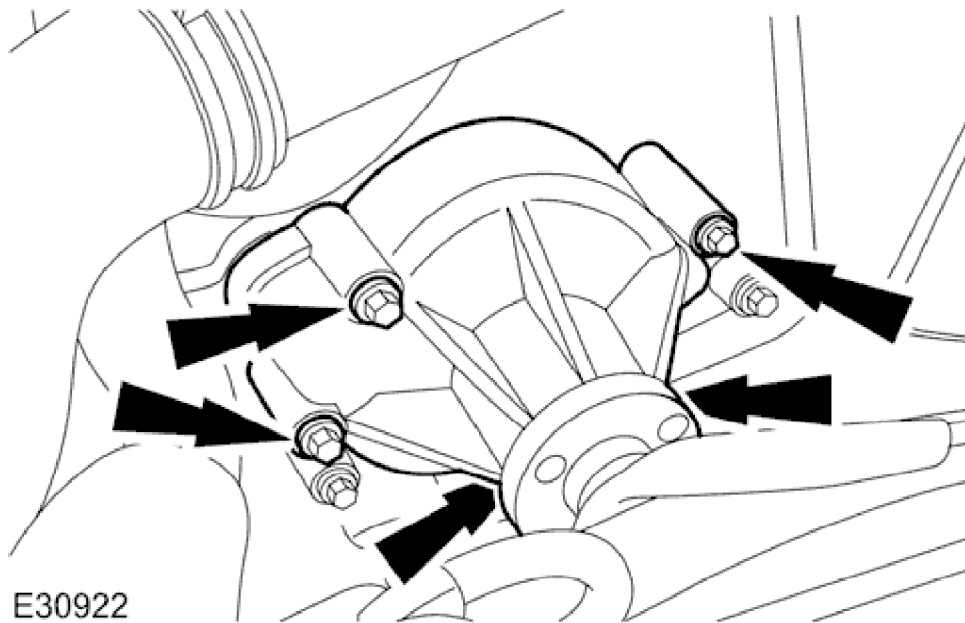
Installation



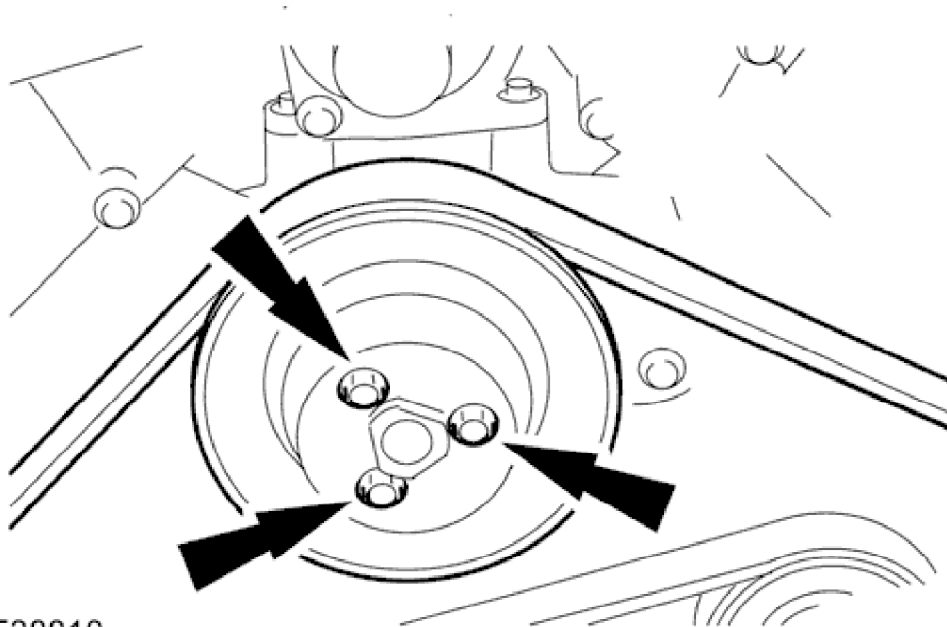
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1. To install, reverse the removal procedure.
 - Install a new water pump gasket and O-ring seal.

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2. Tighten the water pump bolts to 8 Nm + 90°.



3. Tighten the water pump pulley bolts to 10-14 Nm.

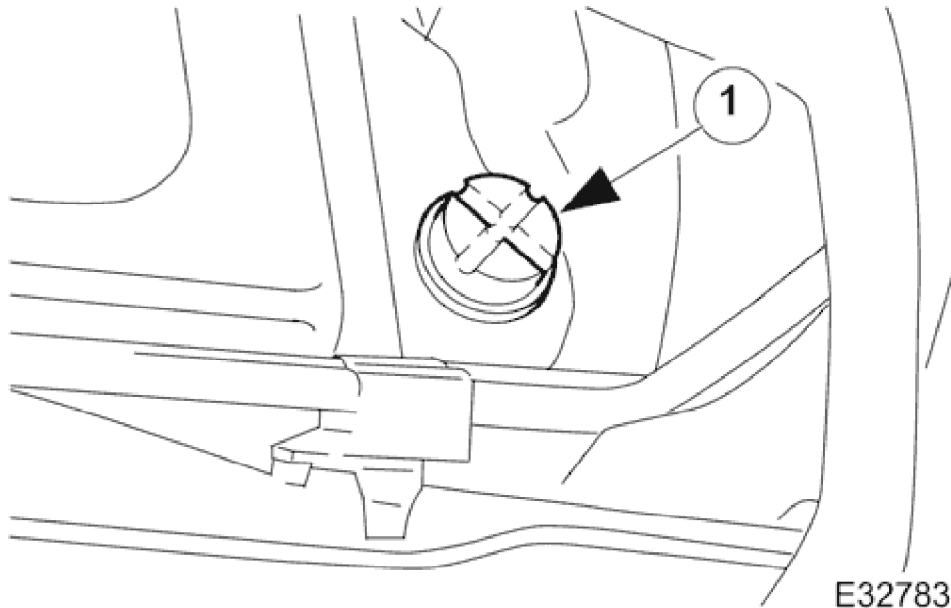
4. Fill the cooling system. <<Cooling System Draining, Filling and Bleeding - Vehicles Without: Supercharger>>

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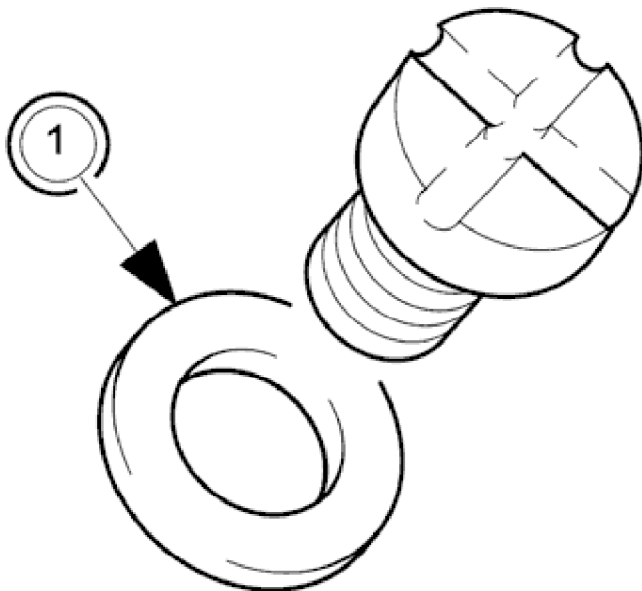
Cooling System Draining, Filling and Bleeding Vehicles Without: Supercharger

Drain

1. Open the engine compartment and fit paintwork protection sheets.
2. Ensure that the cooling system is cool and very carefully, remove the pressure cap from the header tank.
3. Raise the vehicle.

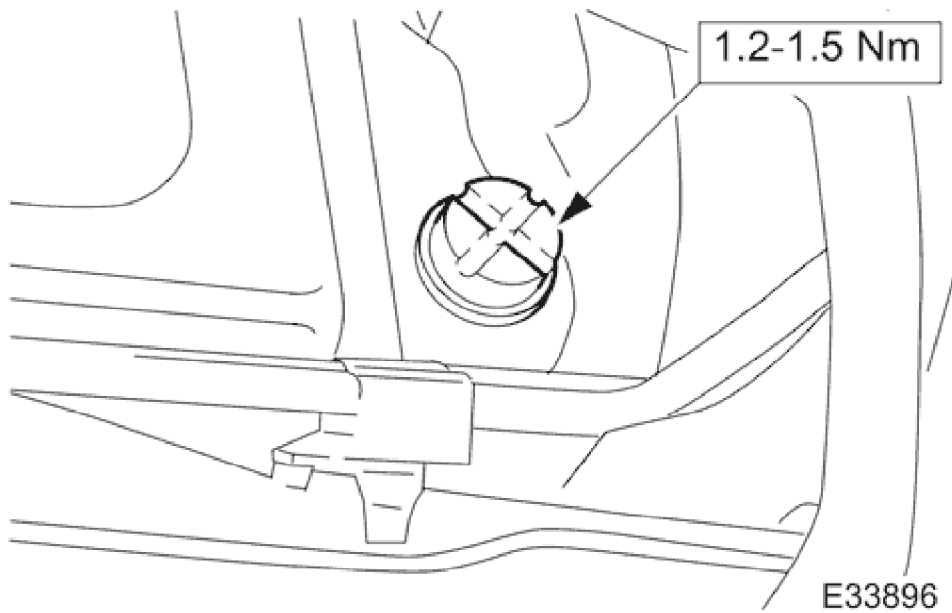


4. Drain the coolant.
 - Place a coolant drain tray on the floor, below the radiator drain plug.
 - 1. Remove the radiator drain plug, and allow the coolant to drain.



5. Fit a new seal to the drain plug.
 1. Remove the seal from the drain plug, and clean the plug face.
 - Fit a new seal.

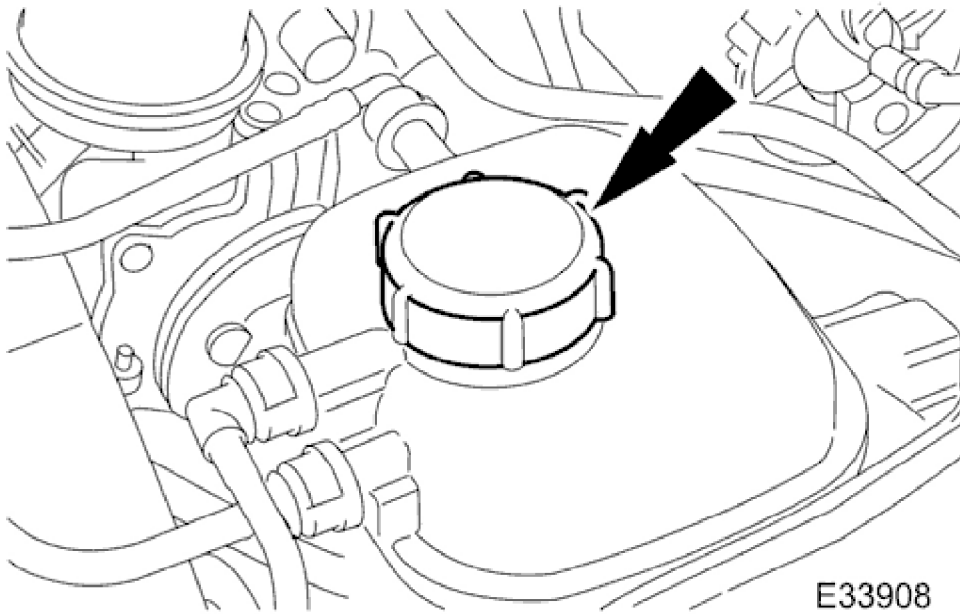
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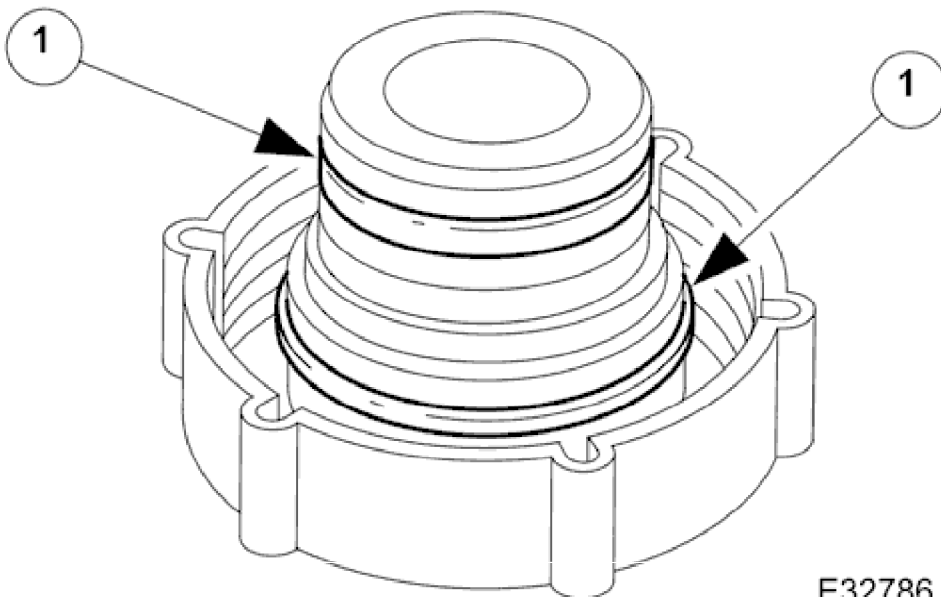
6. Refit the radiator drain plug.
 - Clean any coolant from the underside of the vehicle. Remove the drain tray.
7. Lower the vehicle.

Refill

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1. Refill the cooling system with a 50% solution of water and Jaguar Antifreeze / Corrosion Inhibitor ESD-M97B49-A.
 1. Fill the cooling system at the header tank until the level stabilises at the top of the breather neck.
 - Allow at least 2 minutes for air to purge from the system.
 - Top up the header tank as required and fit the pressure cap.
2. Switch on the ignition, switch off the climate control system and start the engine.
3. Run the engine at between 1500 and 2000 rpm until the cooling fans operate.
4. Switch on the A/C system, set to maximum heat, and check that heat is coming from the heater at the fascia vents or the footwell outlets.
5. Switch off the engine and allow it to cool down.
6. When cool, remove the pressure cap and top up the system as necessary at the header tank.



7. If necessary, fit new seals to the pressure cap.
 1. Remove both O-rings from the pressure cap.
Fit and fully seat new O-rings to the pressure cap.
8. Fit the pressure cap.
9. Remove the paintwork protection sheets and close the engine cover.