

ENGINE COOLING – INGENIUM I6 3.0L PETROL

COOLING SYSTEM PRESSURE TEST (G1898875)

GENERAL PROCEDURES

26.10.07

**COOLING
SYSTEM –
PRESSURE
TEST**

**ALL
DERIVATIVES**

0.20

USED WITHINS

GENERAL EQUIPMENT

EQUIPMENT NAME

Vacuum / Pressure pump

CHECK



WARNING:

Since injury such as scalding could be caused by escaping steam or coolant, allow the vehicle cooling system to cool prior to carrying out this procedure.

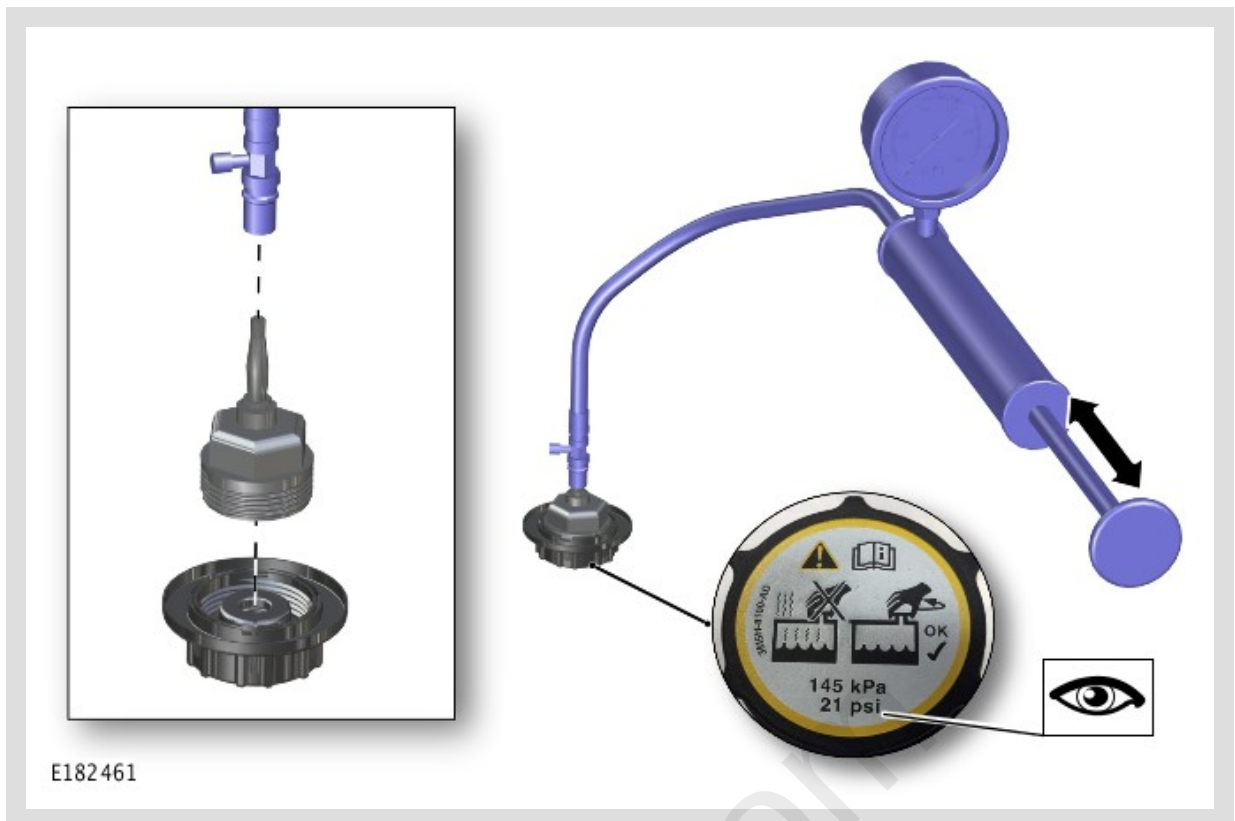


NOTE:

- The following procedure will enable the cooling system to be pressure tested for condition and leaks. Stage 1 will check the expansion tank cap seal and the cap for leaks. Stage 2 will check the entire cooling system.
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Examine the coolant hoses for signs of cracking, distortion and security of the hose connections. Inspect the coolant system for any visible leaks and replace any damaged or leaking components.

2.



- Remove the expansion tank cap, using the correct adapter connect the cooling system pressure test kit to the cap.
General Equipment: [Vacuum / Pressure pump](#)
- Note the release pressure displayed on the expansion tank cap before applying pressure.
- Slowly pressurize the expansion tank cap checking for leaks. When the noted cap pressure is reached the pressure will be released through the cap.

3. Depressurize and remove the cooling system pressure test kit.

⚠ CAUTION:

- Make sure that the mating faces are clean and free of foreign material.
- Do not exceed 1.0 bar (15 psi) when pressurizing the cooling system.

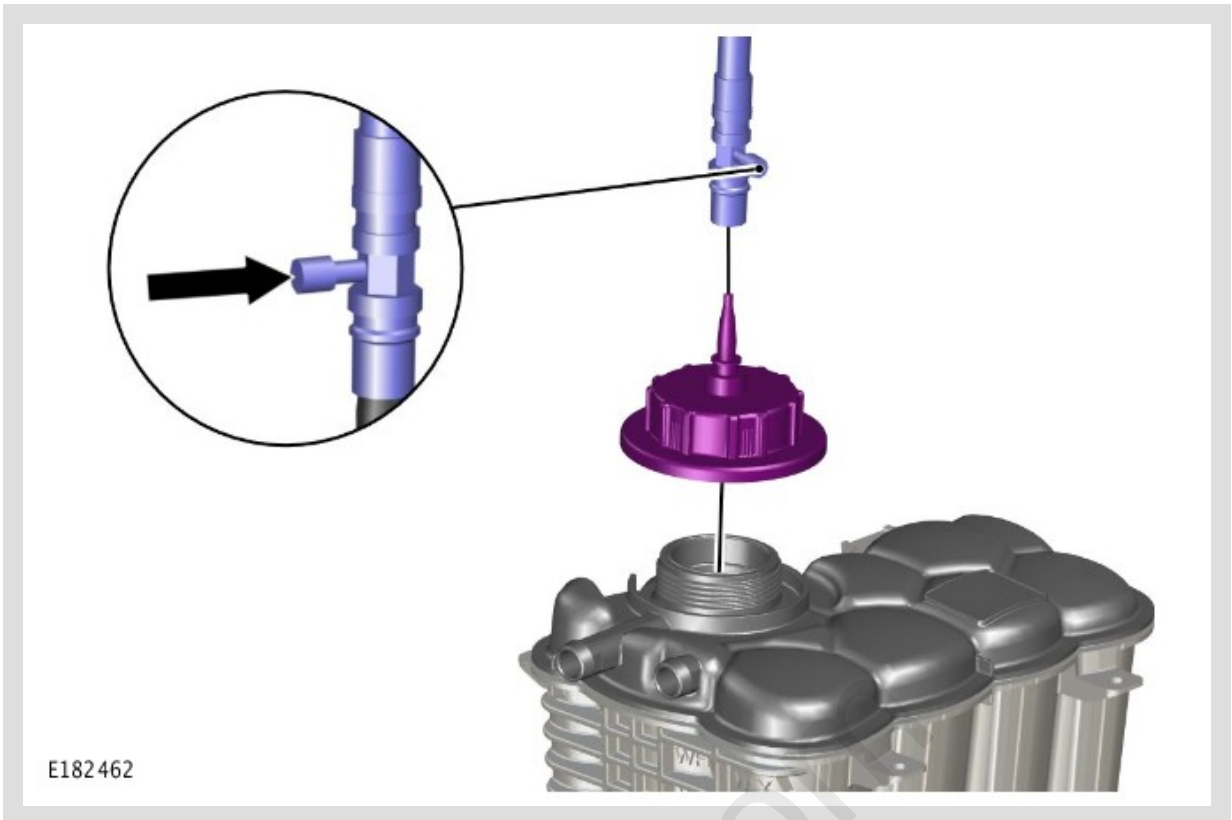
△ NOTE:

If the pressure continues to drop after the initial tolerance, there is a coolant leak.



- Using the correct adapter connect the cooling system pressure test kit to the vehicle expansion tank.
- Slowly pressurize the cooling system until the pressure gauge reads 1.0 bar (15 psi).
- Make sure the cooling system holds pressure for 5 minutes, note that a small pressure decay of approximately 0.15 bar (1 psi) over the first minute is normal.

5.



Depressurize and remove the cooling system pressure tester.

6.

⚠ CAUTION:

Correct installation of the coolant expansion tank cap can be obtained by tightening the cap until 3 audible clicks are heard.

Install the coolant expansion tank pressure cap.