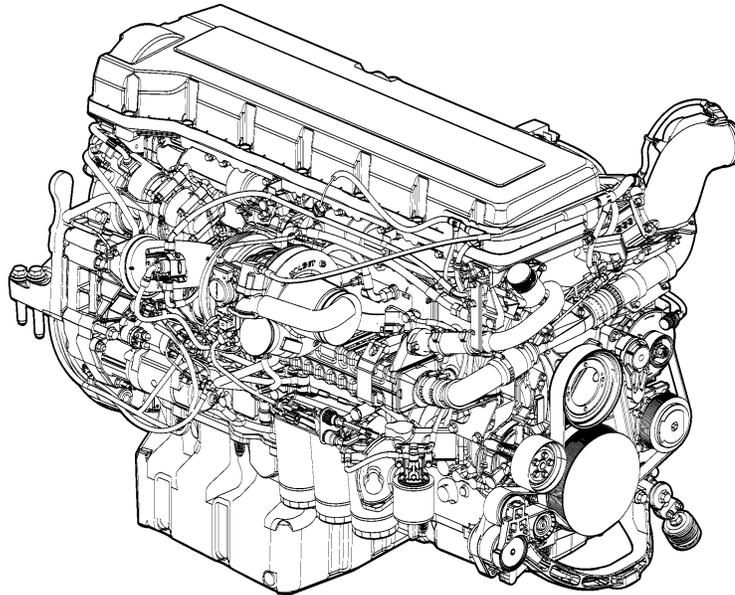


This Service Bulletin replaces SB 260-32, "Cooling System Service," dated (1.2007), publication no. PV776-20177193.

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10.2007	260	48	1(7)

Cooling System, Pressure Test
D16F

Cooling System, Pressure Test



W2005772

This information covers the cooling system pressure testing on a chassis with the Volvo D16F engine.

Contents

- "Special Tools" page 2
- "Cooling System, Pressure Test" page 3

Note: Information is subject to change without notice. Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

Tools

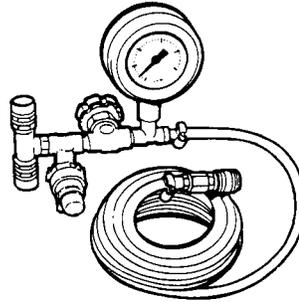
Special Tools

For special tool ordering instructions, see tool information in group 08.



W0001795

9996049
Coolant Drain Hose



C0000216

9996662
Pressure Gauge

Service Procedures

2609-06-02-01

Cooling System, Pressure Test

You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing these procedures. If you are not properly trained and certified in these procedures, ask your supervisor for training before you perform the procedures.

Note: The preferred method for pressure testing the cooling system is to use the DBT2V700 Coolant Extractor. With the DBT2V700 hooked up to the vehicle, a regulated pressure test can be performed using the following procedure. If the DBT2V700 (or equivalent) is unavailable, refer to the Pressure Testing Alternate Method for pressure testing the cooling system.

Special tools: 9996049, 9996662

Pressure Testing with the DBT2V700 Coolant Extractor

Note: This procedure can be used to check for coolant leaks around the liner packing

1

Remove the pressure cap on the expansion tank to relieve cooling system pressure. Reinstall the cap.



CAUTION

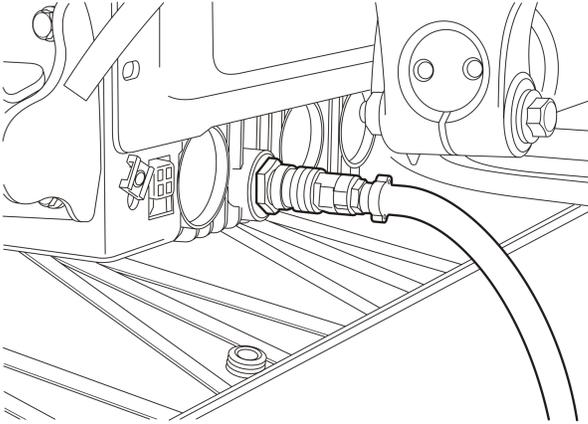
When the engine is warm, open the pressure cap slowly to avoid burns.

2

Add one gallon of water or coolant to the coolant extractor.

DBT2V700

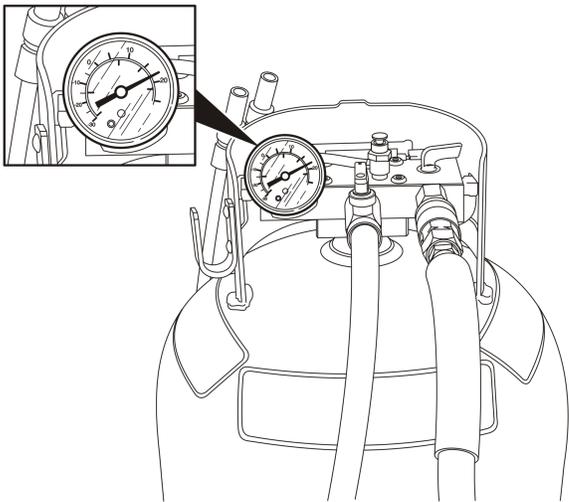
- 3**
Hook the coolant extractor to the bottom of the radiator.



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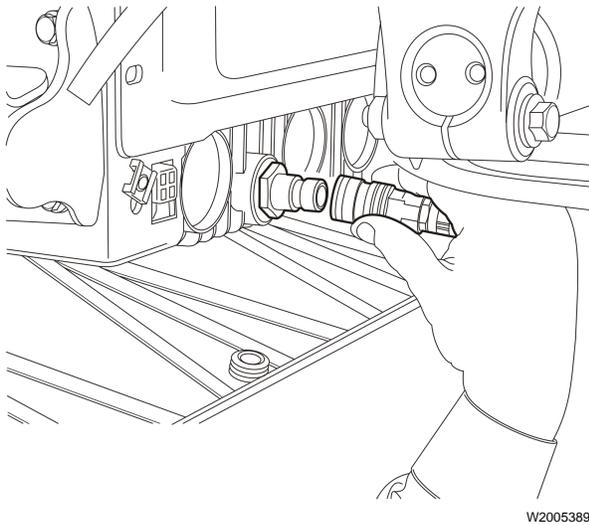
- 4**
Check to make sure the pressure cap is tight.

- 5**
Pressurize the coolant system to 13–18 psi.



W2005388

- 6**
Inspect for coolant leaks around the radiator and at all coolant pipe connections.



- 7 Remove the coolant extractor from the bottom of the radiator.

- 8 Repair any coolant leaks and repeat the above procedure to check for additional leaks.

Pressure Testing Alternate Method

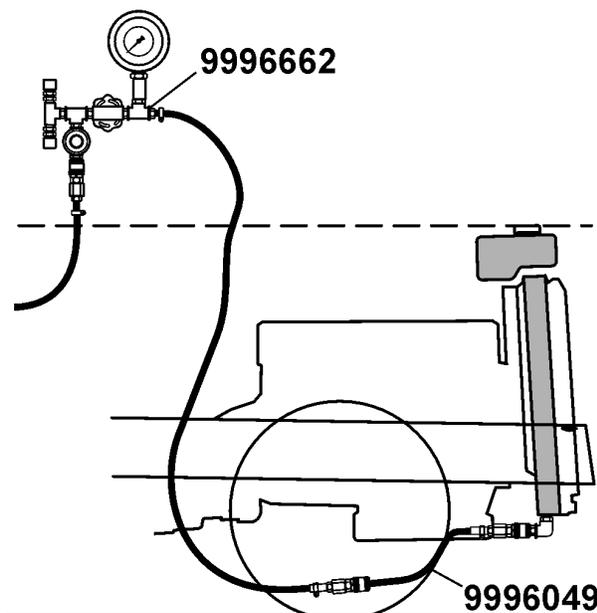
- 1 Remove the pressure cap on the expansion tank to relieve cooling system pressure. Reinstall the cap.

 **CAUTION**

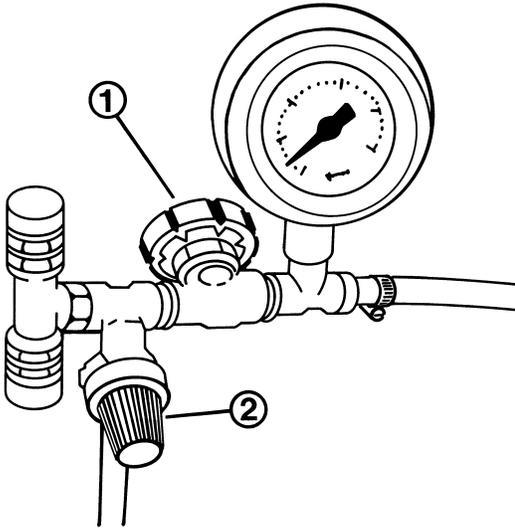
When the engine is warm, open the pressure cap slowly to avoid burns.

- 2 Install the test pressure gauge so that it is positioned above the highest point in the cooling system. This prevents coolant from running into the pressure gauge. Use the drain hose to connect the pressure gauge to the radiator drain plug.

9996662, 9996049

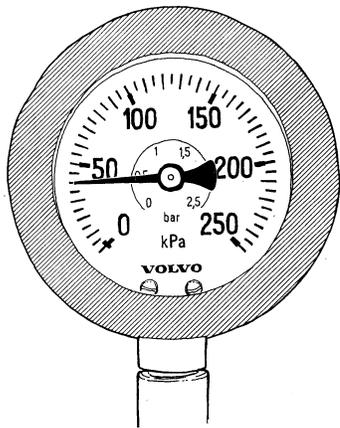


3
Unscrew the pressure regulator (2) counter clockwise to close it. Open the valve (1) of the pressure gauge to allow compressed air into the cooling system.



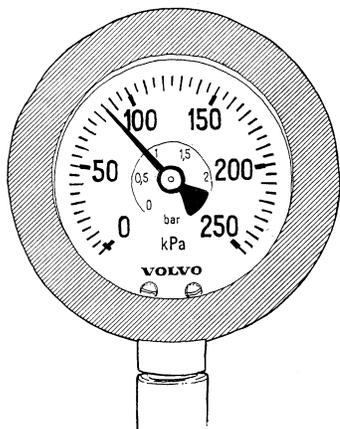
W2002162

4
Slowly pressurize the cooling system by screwing in the pressure regulator (2) to no greater than 40 kPa or 0.4 bar (6 psi). When the pressure stabilizes, check the radiator, hoses, all coolant connections and coolant pump for leaks.



T2007258

5
Increase the pressure in the system to approximately 3 psi (20 kPa or 0.2 bar) above the valve opening pressure of the pressure cap on the expansion tank (check the valve opening pressure in the Service Publications, Group 20). Make sure the valve opens. At this pressure, the air should continuously leak through the valve.



T2007257

 CAUTION
Perform this test for no longer than 10 seconds.

6

When done performing the cooling system pressure test, disconnect the drain hose from the radiator with the system still pressurized. This prevents coolant from entering the pressure gauge.

9996049

7

Disconnect the pressure gauge from the compressed air source.

9996662

8

Repair any leaks as required.

9

Start the engine, check for leaks and proper operation. After shutdown, replenish fluids as necessary.