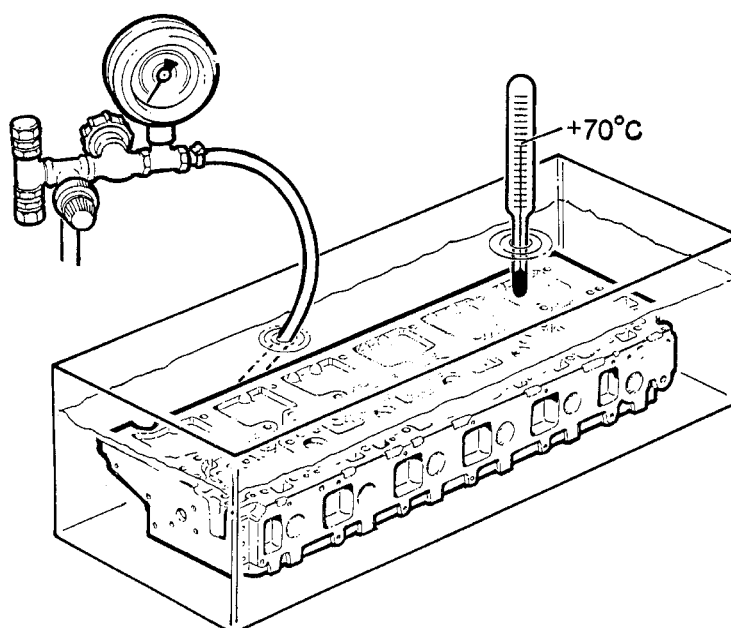


Cylinder Head, Pressure Test D16F

Cylinder Head, Pressure Test



T2008809

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

2111-06-04-01 Cylinder Head, Pressure Test (First) Cylinder head removed

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

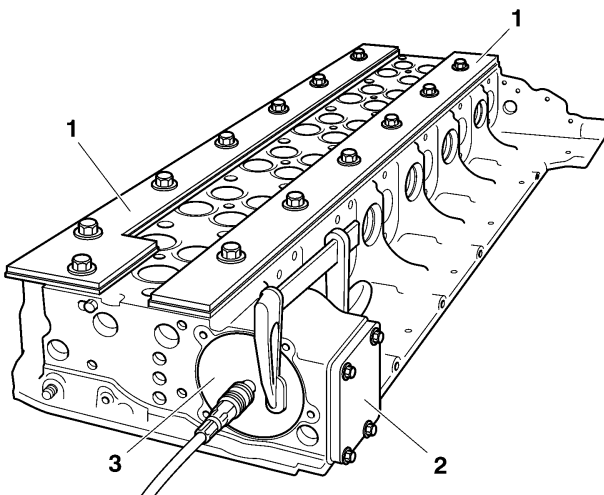
Special tools: 9990107, 9990164, 9996662, 85109036, 88800215

1
Clean the contact surfaces on the cylinder head.

Install:

- Sealing plates 9990164 onto the cylinder head using cylinder head bolts and M16 nuts
- Connection disc 9990107 in the position of the thermostat housing cover
- Plug M12x1.5 in the temperature sensor hole
- Sealing plate 88800215 on the side of the cylinder head

9990164, 9990107, 88800215

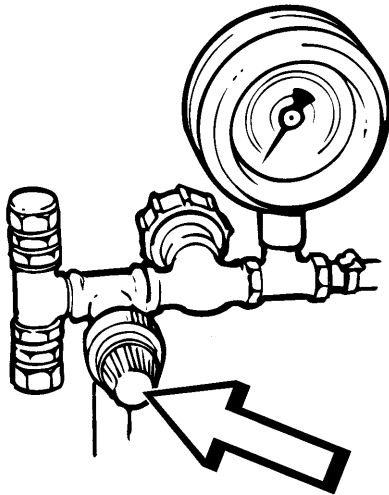


W2006475

- 1 9990164
- 2 88800215
- 3 9990107

2
Connect pressure gauge 9996662. Connect the pressure gauge hose to the connection disc. Adjust the pressure to 100 kPa (14.5 psi) using the control valve. Close the stop valve for 2 minutes. The pressure should not fall.

9996662



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3

Lower the pressure in the cylinder head by adjusting the knob on the pressure gauge control valve.

4

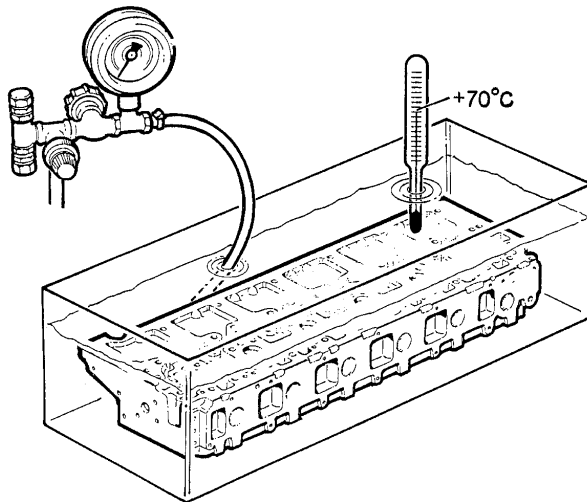
Attach the cylinder head lifting tool 85109036 to the cylinder head.

85109036

5

Use a hoist to lower the cylinder head into a large container. Fill the container with 70°C (158°F) water.

+70°C (158°F)



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6

Connect an air supply to the pressure gauge. Carefully open the control valve.

7

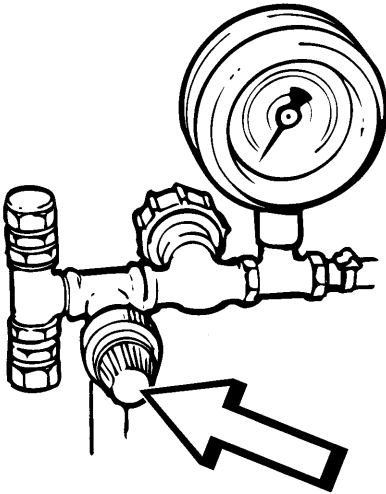
Set the pressure to **50 kPa (7.25 psi)** and hold the pressure for **1 minute**.

50 kPa (7.25 psi), 1 minute

- 8**
Raise the pressure to **150 kPa (21.8 psi)**. Close the stop valve and check after **2 minutes** whether the pressure has fallen or if any air bubbles are visible.

150 kPa (21.8 psi), 2 minutes

- 9**
Lower the pressure in the cylinder head by adjusting the knob on the pressure gauge control valve.



T2007039

- 10**
Use a hoist to lift the cylinder head out of the water container.

- 11**
Remove the sealing plates and connection disc from the cylinder head. Using compressed air, blow the water off the cylinder head and out of all threaded holes.

Note: Take extra care with the fuel passages. Make sure that no dirt enters the fuel channels, as this can cause the unit injectors to be damaged.