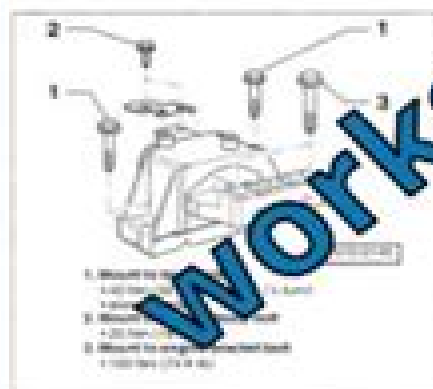
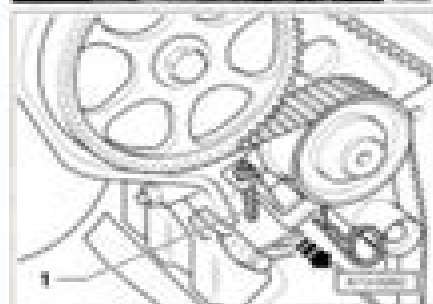


Volkswagen Jetta 1999-2005 Workshop Manual

CYLINDER HEAD AND VALVETRAIN (1.8L ENGINE) 15a-23



Tightening torques

- Water pump drive pulley to timing belt drive sprocket (200) 20 Nm (15 ft-lb)

- ▲ Set crankshaft to TDC for cylinder #1 by setting crankshaft belt subassembly damper unit timing marks line up on belt pulley (arrow) and timing belt guard.
- Ensure that camshaft is set at TDC for cylinder number 1.
- Install the timing belt onto the tensioner, crank pump and camshaft drive sprockets and check for correct placement of belt on all sprockets.

Apply tension to timing belt

- Remove securing pin or bolt T40019 (arrow) from tensioning damper housing.
- Loosen nut on threaded stud or bolt T16000 (2) and adjust belt tension to tighten.
- Remove threaded stud, nut and washer from tensioning damper housing.
- Ensure that camshaft and crankshaft marks are at TDC for cylinder number 1.
- Turn engine two full turns in the clockwise direction to confirm that camshaft and crankshaft marks still align with the inspection marks.

NOTE —

- Some models have a timing belt inspection mark in the center of the timing belt. Make sure the inspection mark is in the center of the timing belt.

- Install right side engine mount bracket and tighten bolts to 25 Nm (18 ft-lb).
- Install right side engine mount using new pinch bolts.
- Remove engine support brace.
- Install lower belt and tensioner. Tighten tensioner to mounting bracket (50 Nm) to 25 Nm (18 ft-lb).
- Install connecting pipe between intercooler and bottom right side of turbocharger.
- Install lower sound absorber panels (left side) and upper sound absorber panel.
- Install any remaining parts and quality check your work, see Quality Review at end of this repair group.

Cylinder block (1.8L, PD diesel engines)

NOTE —

- If during engine repair, metal shavings or large quantities of dirt/debris are found in the engine oil, the oil pan gasket or the cylinder block must be thoroughly cleaned and then all bolts replaced.

- Cylinders and valves are components of the cylinder block. See 21 ft-lb (25 Nm) torque. Always use the correct torque wrench.

- Tighten to 10 Nm (7 ft-lb).

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CRANKSHAFT/CYLINDER BLOCK (4-CYLINDER) 13a-3



- 16. Coolant thermostat
 - Heat up in water to check.
 - Opening starts approx. 80°C (176°F).
 - Closes approx. 100°C (212°F).
 - Opening (0.7 mm (0.028 in.) minimum).
 - Make installed position: water shaft support must be vertical.
- 17. Crank bracket
 - Observe tightening sequence for Crankshaft/cylinder block, tightening sequence.
 - For related belt tensioning roller, tensioner, power steering pump, and A/C compressor.
- 18. Oil pan
 - Clean sealing surface before installing.
 - Connect with torque wrench (21 Nm (15 ft-lb)).
 - Use 17 Engine Lubrication System.
- 19. Bolt
 - Tighten to 10 Nm.
- ▲ Crank bracket to cylinder block, tightening sequence:
 - 1. Tighten A to 45 Nm (33 ft-lb)
 - 2. Tighten B to 45 Nm (33 ft-lb)
 - 3. Tighten C to 45 Nm (33 ft-lb)
 - 4. Tighten D to 45 Nm (33 ft-lb)
 - 5. Tighten E to 45 Nm (33 ft-lb)
 - 6. Tighten F to 45 Nm (33 ft-lb)

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