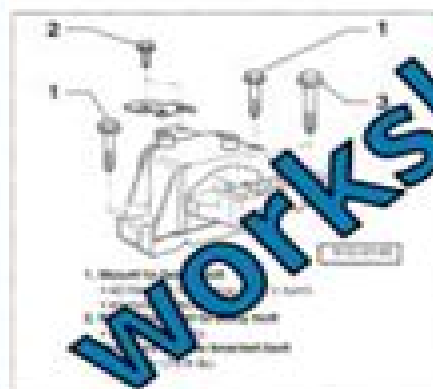
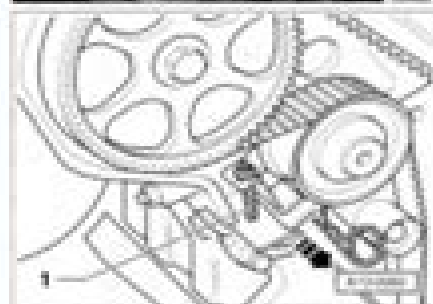


Volkswagen Jetta 1999-2005 Workshop Manual

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



Tightening torques

- Injection dampener belt pulley to timing belt drive sprocket (MM)
- 20 Nm (15 ft-lb)

- A Set camshaft to TDC for cylinder #1 by turning crankshaft belt pulley/dampener until timing marks line up on belt pulley (camshaft) and timing belt guard.
- Ensure that camshaft is set at TDC for cylinder number 1.
- Install the timing belt onto the dampener, idler pulley 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 (camshaft timing dampener housing).
- Loosen nut on threaded stud or bolt T16000 (1) on the belt tensioner to tighten.
- Remove threaded stud, nut and washer from timing dampener housing.
- Ensure that camshaft and crankshaft marks are at TDC for cylinder number 1.
- Turn engine two full turns to the clockwise position and confirm that camshaft and crankshaft timing marks still align with the respective marks.

NOTE —

- Some models have a timing belt tensioner that is to be adjusted. The adjustment steps in most cases are: 1. Loosen the adjustment screw. 2. Turn the screw clockwise until the tensioner is in the correct position.

- Tighten the timing belt tensioner and upper bearings.
- Tighten the timing belt tensioner and lower bearings.
- Install right side engine mount using new stretch bolts.
- Remove engine support brace.
- Install idler belt and tensioner. Tighten tensioner to mounting bracket (MM torque) to 20 Nm (15 ft-lb).
- Install connecting pipe between idler pulley and bottom right side of belt hanger/bracket.
- 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, water damage or large quantities of dirt/debris have entered the engine oil, the oil pan gasket of the cylinder block must be thoroughly cleaned and then oil water separator.
- Volkswagen specifies cleaning components in a water pump or a number of times with a high-pressure water jet. The water pressure must not exceed 10 bar (145 psi).
- After cleaning, the components must be dried thoroughly.

Cylinder block

- Tighten to 10 Nm (7 ft-lb)

- Tighten to 10 Nm (7 ft-lb)

- Tighten to 10 Nm (7 ft-lb)

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- Tighten to 10 Nm (7 ft-lb)

- Tighten to 10 Nm (7 ft-lb)

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



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15. Coolant thermostat
 - Heat up in water to about 80°C (180°F).
 - Opening (A) approx. 100°C (212°F).
 - Closing (B) approx. 120°C (248°F).
 - Make installed position: water pump support must be vertical.
16. Coolant thermostat
 - Heat up in water to about 80°C (180°F).
 - Opening (A) approx. 100°C (212°F).
 - Closing (B) approx. 120°C (248°F).
 - Make installed position: water pump support must be vertical.
17. Compact bracket
 - Observe tightening sequence in Compact bracket to cylinder block, tightening sequence.
 - For 1.8L (4-cylinder) engine: generator, 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 10 Engine Lubrication System.
19. Oil pan
 - Tighten to 10 Nm.
20. Compact bracket to cylinder block, tightening sequence
 - 1 Tighten A to 10 Nm (7 ft-lb)
 - 2 Tighten B to 10 Nm (7 ft-lb)
 - 3 Tighten C to 10 Nm (7 ft-lb)
 - 4 Tighten D to 10 Nm (7 ft-lb)
 - 5 Tighten E to 10 Nm (7 ft-lb)
 - 6 Tighten F to 10 Nm (7 ft-lb)

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