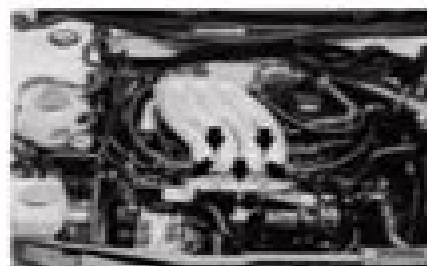


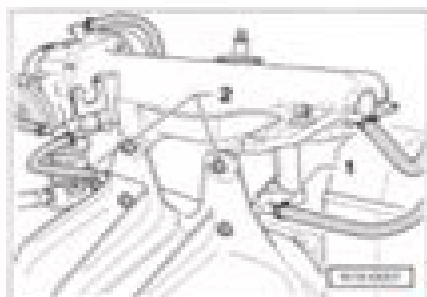
# Volkswagen Bora 1999-2005 Workshop Manual

15c-30 CYLINDER HEAD AND VALVETRAIN (2.0L ENGINE)

CYLINDER HEAD AND VALVETRAIN (1.5L) 15b-15



- Test all disconnected fuel and vacuum lines to prevent contamination.
- Remove air cleaner assembly and connecting hoses to throttle housing.
- Disconnect accelerator cable from throttle control module. Use image and cable retainers (A6D engine only).
- Unplug wiring harness connector from throttle control module.
- Remove 2 coolant hoses from throttle control module that connect to the reservoir and cylinder head.
- Disconnect vacuum hose connected for power brake booster on the back of intake manifold and any remaining electrical and vacuum connections on intake manifold.



- Loosen and remove bolts (A) holding upper and lower sections of intake manifold together (A6D engine shown).
- On the rear upper section of intake manifold, remove screws (7) and mounting bolts (8) for water pump.



- On rear upper section of intake manifold and top water pump, off-mount water pump on lower section with suitable strap (A) or water pump (A) or other suitable material.

## Drive belts, assembly

1. Bolt
  - Torque to 120 Nm (20 ft-lb) + 1/2 turn (20°)
  - To loosen and tighten, counter-torque with 34 ft-lb
  - Threads and shoulder must be free of oil and grease
  - Additional quarter turn torque (torque) on 1/2 turn (20°) torque
2. Bolt
  - Torque to 120 Nm (20 ft-lb) + 1/2 turn (20°)
3. Bolt
  - Torque to 120 Nm (20 ft-lb) + 1/2 turn (20°)
4. Bolt
  - Torque to 120 Nm (20 ft-lb) + 1/2 turn (20°)
5. Timing belt guard, water section
6. Bolt
  - Torque to 40 Nm (30 ft-lb)
7. Right engine mount
8. Timing belt guard, water section
9. Timing belt
10. Water pump pulley
11. Water pump pulley
12. Water pump pulley
13. Bolt
  - Torque to 120 Nm (20 ft-lb) + 1/2 turn (20°)
14. Bolt
  - Torque to 20 Nm (15 ft-lb)
15. Bolt
  - Torque to 20 Nm (15 ft-lb)
16. Bolt
  - Torque to 40 Nm (30 ft-lb)
  - To loosen and tighten bolt, counter-torque with 30 Nm



17. Camshaft sprocket
  - Release from camshaft using two-part pulley
18. Timing belt roller
  - Roll camshaft timing belt into timing roller
19. Water pump
20. Injection pump sprocket
  - Two-piece connection
21. Bolt
  - Torque to 20 Nm (15 ft-lb)
22. Timing belt guard, rear
23. Coolant pump
  - Check impeller for signs of movement
24. Water pump
  - Informatics before refilling coolant and pump
25. Camshaft timing belt drive sprocket
26. Bushing, threaded
27. Diesel injection pump
28. Assembly bracket
  - Mounting for diesel injection pump, generator power steering pump, and air conditioner compressor
29. Bolt
  - Torque to 40 Nm (30 ft-lb)

# Bora Repair Manual

**David Stanley**



## **Bora Repair Manual:**

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