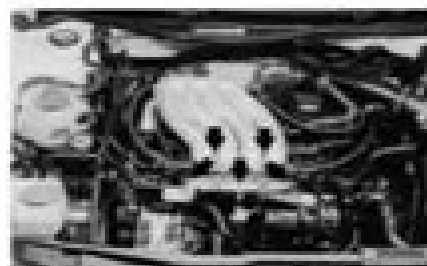


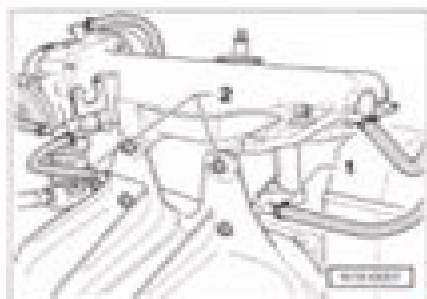
Volkswagen Bora 1999-2005 Workshop Manual

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 (AEC 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 (AEC engine shown).
- On the rear upper section of intake manifold, remove screws (7) and mounting bolts (8) for water pump.



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

Drive belts, assembly

1. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (20°).
 - To loosen and tighten, counter-bolt with 34 ft-lb.
 - Threads and shoulder must be free of oil and grease.
 - Additional quarter turn must be obtained on 1/2 turn (20°) torque.
2. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (20°).
3. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (20°).
4. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (20°).
5. Timing belt guard, middle section
6. Bolt
 - Tighten to 40 Nm (30 ft-lb).
7. Right engine mount
8. Timing belt guard, upper section
9. Timing belt
 - Rotate engine direction of rotation before removing.
 - Check for wear.
 - Do not reuse.
10. Water pump
11. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (20°).
12. Bolt
 - Tighten to 20 Nm (15 ft-lb).
13. Bolt
 - Tighten to 20 Nm (15 ft-lb).
14. Bolt
 - Tighten to 40 Nm (30 ft-lb).
 - To loosen and tighten, counter-bolt with 30 ft-lb.



17. Camshaft sprocket
 - Release from camshaft using two-part pulley.
18. Timing belt roller
 - Remove automatic timing belt roller spring roller.
19. Water pump
20. Injection pump sprocket
 - Two-piece construction.
21. Bolt
 - Tighten to 30 Nm (22 ft-lb).
22. Timing belt guard, rear
23. Coolant pump
 - Check impeller for signs of movement.
24. Water pump
 - Informatics before removing cap 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
 - Tighten to 40 Nm (30 ft-lb).

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A. K. Legg



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Table of Contents Vw Bora Manual Torrent

1. Understanding the eBook Vw Bora Manual Torrent
 - The Rise of Digital Reading Vw Bora Manual Torrent
 - Advantages of eBooks Over Traditional Books
2. Identifying Vw Bora Manual Torrent
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vw Bora Manual Torrent
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vw Bora Manual Torrent
 - Personalized Recommendations
 - Vw Bora Manual Torrent User Reviews and Ratings
 - Vw Bora Manual Torrent and Bestseller Lists
5. Accessing Vw Bora Manual Torrent Free and Paid eBooks
 - Vw Bora Manual Torrent Public Domain eBooks
 - Vw Bora Manual Torrent eBook Subscription Services

- Vw Bora Manual Torrent Budget-Friendly Options
- 6. Navigating Vw Bora Manual Torrent eBook Formats
 - ePub, PDF, MOBI, and More
 - Vw Bora Manual Torrent Compatibility with Devices
 - Vw Bora Manual Torrent Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vw Bora Manual Torrent
 - Highlighting and Note-Taking Vw Bora Manual Torrent
 - Interactive Elements Vw Bora Manual Torrent
- 8. Staying Engaged with Vw Bora Manual Torrent
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vw Bora Manual Torrent
- 9. Balancing eBooks and Physical Books Vw Bora Manual Torrent
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vw Bora Manual Torrent
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Vw Bora Manual Torrent
 - Setting Reading Goals Vw Bora Manual Torrent
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vw Bora Manual Torrent
 - Fact-Checking eBook Content of Vw Bora Manual Torrent
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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