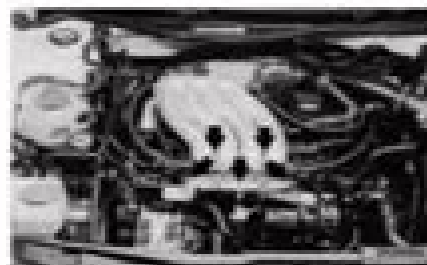


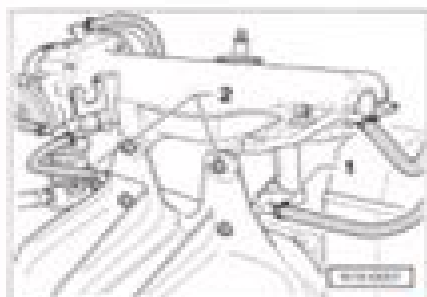
Volkswagen Bora 1999-2005 Workshop Manual

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 (image and cable retainers, (M20 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 (image) holding upper and lower sections of intake manifold together (M20 engine shown).
- On the rear upper section of intake manifold, remove screws (7) and mounting bolts (8) for water pump.



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

Drive belts, assembly

1. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (M21).
 - To loosen and tighten, counter-bolt with 34 N.
 - Threads and shoulder must be free of oil and grease.
 - Additional counter-bolts are shown in the 1/2 turn (M21) image.
2. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (M21).
3. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (M21).
4. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (M21).
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
10. Water pump pulley
11. Water pump pulley
 - Rotate engine in direction of rotation before removing.
 - Check for wear.
 - Do not reuse.
12. Water pump pulley
13. Bolt
 - Remove cap nut.
 - Tighten to 120 Nm (20 ft-lb) + 1/2 turn (M21).
14. Nut
 - Tighten to 20 Nm (15 ft-lb).
15. Bolt
 - Tighten to 20 Nm (15 ft-lb).
16. Bolt
 - Tighten to 40 Nm (30 ft-lb).
 - To loosen and tighten, counter-bolt with 34 N.



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 20 Nm (15 ft-lb).
22. Timing belt guard, rear
23. Coolant pump
 - Check impeller for signs of movement.
24. Water pump
 - Remove before removing cap and bolts.
25. Camshaft timing belt roller 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).

Vw Bora Workshop Manual

R. M. Jex



Vw Bora Workshop Manual:

VW Golf & Bora Service and Repair Manual A. K. Legg, 2005 This is one in a series of manuals for car or motorcycle owners Each book provides information on routine maintenance and servicing with tasks described and photographed in a step by step sequence so that even a novice can do the work VW Golf & Bora Service and Repair Manual Pete Gill, 2001 Golf Hatchback Estate Bora Saloon inc special limited editions Does NOT cover 4 Motion 4x4 or Cabriolet Petrol 1 4 litre 1390cc 1 6 litre 1595cc 1 8 litre 1781cc 2 0 litre 1984cc 4 cyl inc turbo Does NOT cover 2 3 litre V5 Diesel 1 9 litre 1896cc inc turbo Diesel Does NOT cover 1 9 litre PD engine **VW Golf and Bora Service and Repair Manual** ,2015-08 This is one in a series of manuals for car or motorcycle owners Each book provides information on routine maintenance and servicing with tasks described and photographed in a step by step sequence so that even a novice can do the work VW Polo Petrol & Diesel Service & Repair Manual R. M. Jex, 2007 Hatchback including special limited editions Does NOT cover features specific to Dune models or facelifted Polo range introduced June 2005 Petrol 1 2 litre 1198cc 3 cyl 1 4 litre 1390cc non FSI 4 cyl Does NOT cover 1 4 litre FSI engines Diesel 1 4 litre 1422cc 3 cyl 1 9 litre 1896cc 4 cyl inc PD TDI turbo

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upright engine 1131cc 25hp Volkswagen Air cooled Type 1 upright engine 1192cc 36hp from January 1954 Volkswagen Air cooled Type 1 upright engine 1192cc 36hp from August 1955 Transmissions covered in this Volkswagen repair manual Volkswagen Standard with non synchronized crash box transmission Volkswagen De Luxe with 2nd 3rd and 4th gear synchronized transmission Technical highlights Engine and cylinder head service repair and reconditioning including bench testing procedures and specifications for 25hp and 36hp motors Solex 28 PCI carburetor and Solex fuel pump troubleshooting rebuilding and adjustment Transmission removal rebuilding and adjustment including special needle bearings on synchromesh transmissions Frame floor and body panel repair All measurements and detailed cutting alignment and welding instructions Painting preparation and procedures Body repair and replacement procedures including the sliding fabric sunroof and convertible top Complete wiring diagrams All factory changes and updates are noted in the text by manufacturing date chassis number engine number and part number Full explanations of the operation of all systems with exploded views cutaways and diagrams Required workshop equipment tools and equipment for local manufacture listings Troubleshooting tables for clutch carburetor fuel pump steering brakes generator starter and wipers Maintenance and lubrication charts and procedures

Books and Serials in Print, 1984 VW Owners Workshop Manual Ian Coomber, 1990-01-01 **Scientific and Technical**
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 Coomber, 1988-01-01 VW Owners Workshop Manual P. G. Strasman, 1982-01-01 *VW Service Workshop Manual*
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