

N - REMOVE/INSTALL/OVERHAUL - VR6

Article Text

1993 Volkswagen Passat

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Wednesday, March 22, 2000 10:19PM

ARTICLE BEGINNING

1993 ENGINE PERFORMANCE

Removal, Overhaul & Installation

Passat GLX

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See the COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.

INTRODUCTION

Removal, overhaul and installation procedures are covered in this article. If component removal and installation is primarily an unbolt and bolt-on procedure, only a torque specification may be furnished.

CAUTION: When disconnecting battery, obtain and record radio anti-theft code. If wrong code is entered into radio after power is restored, radio will become inoperable.

IGNITION SYSTEM

NOTE: Passat GLX ignition system removal and installation information not available from manufacturer. These vehicles are equipped with a distributorless ignition system.

FUEL SYSTEM

FUEL SYSTEM PRESSURE RELEASE

To relieve fuel system pressure, remove fuel pump fuse (No. 5, 13 or 18) or fuel pump relay to deactivate fuel pump. Place a clean shop rag around fuel line fitting and slowly loosen fitting.

WARNING: Fuel system pressure release procedure is not available from manufacturer. Fuel will discharge when disconnecting fuel system components. Disconnect ignition coil output stage wiring harness to deactivate ignition. DO NOT smoke or work near heaters or other fire hazards. Keep a fire extinguisher handy.

FUEL PUMP

Removal & Installation (Passat GLX)

1) Obtain and record radio anti-theft code. Disconnect negative battery cable. Remove luggage compartment floor covering and fuel pump access cover. Disconnect wiring harness and fuel lines from

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Article Text (p. 2)

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fuel pump.

2) Using Wrench (3217), loosen fuel pump screw cap. Remove flange and sealing ring from fuel tank opening. Loosen fuel pump by twisting it to left. Remove fuel pump from fuel tank.

3) When installing fuel pump, ensure that fuel gauge sending unit is not bent. Sending unit must be installed with a frontal angle of 5 degrees (70-75 degrees on Passat GLX sedan). Align mark on flange with fuel tank. To complete installation, reverse removal procedure.

FUEL RAIL & INJECTORS

Removal & Installation (Passat GLX)

1) Remove ignition wires. Remove hose from mass airflow sensor. Disconnect hose to fuel evaporative (frequency) solenoid valve at throttle body.

2) Disconnect throttle position sensor and idle air control valve. Disconnect accelerator cable from throttle body. Disconnect and plug coolant hoses at throttle body.

3) Disconnect hose from air intake heated tube. Detach fuel lines at cylinder head cover and remove from fuel rail. Disconnect vacuum hose from fuel pressure regulator. Remove upper intake manifold.

4) With upper intake manifold removed, disconnect wiring harness from fuel injector(s). Pry off retaining clip(s) from injector(s). To install injectors, lubricate "O" rings with fuel. To complete installation, reverse removal procedure.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS (PASSAT GLX)

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Application	Ft. Lbs. (N.m)
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EGR Temperature Sensor	15 (20)
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Knock Sensors	18 (25)
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Oxygen Sensor	37 (50)
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Throttle Body Bolts	18 (25)
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Upper Intake Manifold Bolts	18 (25)
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INCH Lbs. (N.m)

FUEL RAIL BOLTS	84 (10)
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Intake Air Temperature Sensor	84 (10)
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END OF ARTICLE