

N - REMOVE/INSTALL/OVERHAUL

Article Text

1993 Volkswagen EuroVan
For Volkswagen Technical Site
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Saturday, March 18, 2000 10:35PM

ARTICLE BEGINNING

1993 ENGINE PERFORMANCE
Removal, Overhaul & Installation

EuroVan

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

DISTRIBUTOR

Removal & Installation (EuroVan)

1) Distributor removal procedure is not available from manufacturer. To install distributor, ensure cylinder No. 1 is at TDC of compression stroke. See Fig. 1.

2) Align mark on camshaft sprocket with mark on rear toothed belt guard. Turn rotor so that it points to cylinder No. 1 mark on distributor housing. Insert distributor into engine. Check ignition timing.

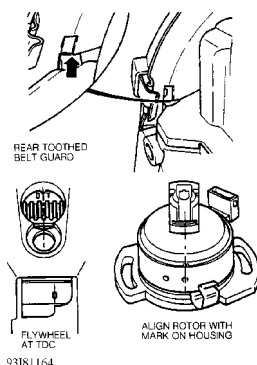


Fig. 1: Distributor Installation (EuroVan)
Courtesy of Volkswagen United States, Inc.

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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 (EuroVan)

1) Obtain and record radio anti-theft code. Disconnect negative battery cable. Pull out carpeting from around access cover just right of parking brake lever. Remove access cover.

2) Disconnect wiring harness and fuel lines from fuel pump. 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 installed with a frontal angle of 30 degrees and is not bent. Align mark on flange with fuel tank. To complete installation, reverse removal procedure.

FUEL RAIL & INJECTORS

Removal & Installation (EuroVan)

1) Remove air cleaner housing and filter. Remove air intake hose. Disconnect wiring harness connector at fuel rail.

2) Disconnect crankcase breather hose. Disconnect fuel lines from fuel rail. Disconnect vacuum hose from fuel pressure regulator. Using a 1/8" drive ratchet and Attachment (SW5 3249), remove fuel rail bolts.

3) Remove fuel rail, toward front of vehicle, with fuel injectors on right. Remove bolt near center of fuel rail and separate upper and lower fuel rail sections.

4) Install a bolt in vise, threaded side in jaws. Press out fuel injectors against bolt head. To install injectors, lubricate "O" rings with fuel. To complete installation, reverse removal procedure.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS (EUROVAN)

AA

Application

Ft. Lbs. (N.m)

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Hot Air Stove Nuts	18 (25)
Throttle Body Bolts (M8)	15 (20)
Oxygen Sensor	37 (50)

INCH Lbs. (N.m)

Distributor Hold-Down Bolts	84 (10)
Fuel Rail-To-Intake Manifold Bolts	84 (10)
Fuel Rail Upper/Lower Section Bolt	84 (10)
Throttle Body Bolts (M6)	84 (10)

AA

END OF ARTICLE