

FUEL PUMP - ELECTRIC

Article Text

1987 Volkswagen Quantum/Quantum Syncro

For Volkswagen Technical Site

Copyright © 1998 Mitchell Repair Information Company, LLC

Sunday, March 19, 2000 01:45AM

ARTICLE BEGINNING

1987 Electric Fuel Pumps

BOSCH

Volkswagen

DESCRIPTION

Bosch electric fuel pumps are 12-volt, positive displacement roller cell type. Operating pressure is determined by one or more external fuel pressure regulators in the engine compartment. Fuel pumps include an external replaceable discharge check valve, to prevent fuel from returning to the tank when pump is turned off. Some pumps may also incorporate a damper chamber on the outlet, to prevent pulsations in the fuel lines.

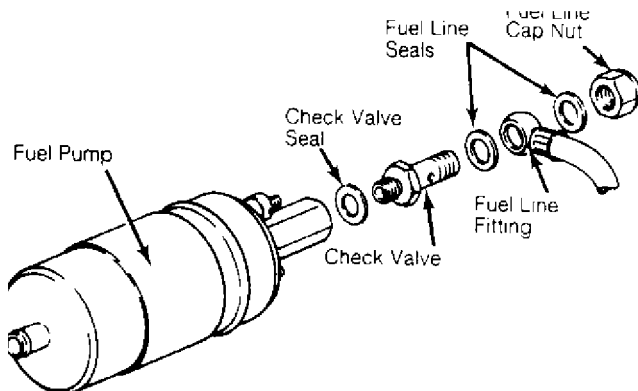


Fig. 1: View of Bosch Electric Fuel Pump
Courtesy of Volvo Cars of North America.

OPERATION

Fuel pumps are actuated by relays when ignition switch is in "START" or "RUN" position, and are protected from circuit overload by fuses and/or fusible links. Fuel is circulated through pump rotor and brushes to the fuel outlet. Pumps are not serviceable and should be replaced when not operating properly. For fuel pump test procedures, see appropriate FUEL INJECTION article in this section.

REMOVAL & INSTALLATION

Removal

1) Fuel pressure must be relieved prior to any component removal. Carefully remove and plug fuel lines to prevent spillage. Disconnect electrical connections.

NOTE: Do not allow smoking, open flame or sparks in area while servicing fuel system components. Disconnect battery ground

FUEL PUMP - ELECTRIC

Article Text (p. 2)

1987 Volkswagen Quantum/Quantum Syncro

For Volkswagen Technical Site

Copyright © 1998 Mitchell Repair Information Company, LLC

Sunday, March 19, 2000 01:45AM

terminal prior to removing pump.

2) Remove mounting bolts and retain rubber insulating grommets for reinstallation. Rotate fuel pump as required to clear chassis and remove from vehicle.

Installation

1) Be sure rubber grommets and insulation are installed correctly or noise and vibration will result.

2) Hook all fuel lines and return lines to proper fittings, and be sure they are tight to avoid air and/or fuel leaks.

3) Route fuel lines so they will not vibrate or rub against other body parts. Test system for leaks with engine running.

END OF ARTICLE