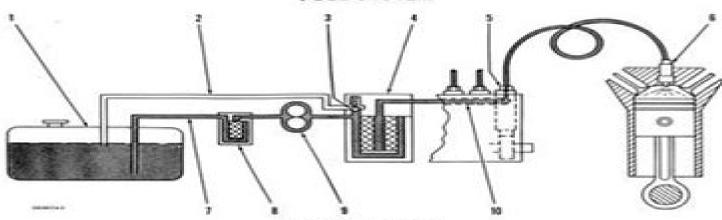
FUEL SYSTEM



FUEL SYSTEM SCHEMATIC

1. Fuel tank, 2, Fuel return line to fuel tank, 3. Sypass valve, 4. Main fuel filter, 5. Fuel injection pump, 6. Precombaction chamber, 7. Fuel supply line, 8, Primary fuel filter, 9. Fuel searcher pump, 10. Fuel manifold in the fuel injection pump housing.

The fuel system is a pressure-type with a separate injection pump and injection valve for each cylinder. Fuel is injected into a precombustion chamber, not directly into the cylinder.

A transfer pump supplies fuel to the manifold from which the injection pumps get fuel. Before the fuel is delivered to the manifold, it is filtered first by a primary filter which removes dirt particles, and later by a final filter which removes more minute particles.

The transfer pump can supply more fuel than is required for injection, so a bypass valve is used to limit the maximum pressure within the supply system.

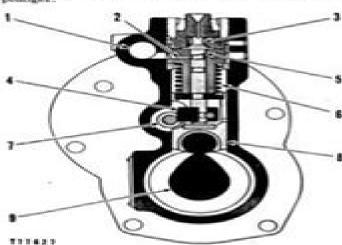
The injection pumps receive fuel from the manifold and forces it under high pressure to the injection valves. The injection valves spray atomized fuel into the precombustion chambers.

An air vent valve in the system permits removal of air. Air is removed by opening the valve and pressurizing the fuel system. The system can be pressurized by using the priming pump. The vent valve must be open until a stream of fuel, without air bubbles, flows from the vent line.

FUEL INJECTION PUMP OPERATION

The injection pump plungers and the lifters are lifted by lobes on the campbaft and always make a full stroke. The lifters are held against the cam lobes by spring force applied to the plungers.

The amount of fuel pumped each stroke is varied by turning the plunger in the barrel. Action of the governor moves the fuel rack which turns the pump gear segment on the bottom of the pump plunger.



FUEL INJECTION FUMP

1—Fuel menthald, 2-falset part, 3-Check suite. 4-Gaur segment, 5-Pump plumper, 6-Spring, 7-Fuel tack, 8-Lifter, 9-Cemplant.

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Sir Maurice Mawby

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web appendix a codes the codelisted may not be used in all applications a default value in the normal operating range is used by the ecu to provide for engine operation if a sensor failure is present ddc code j1939 j1587 flashed spn pid sid fmi description 240 2 fram checksum incorrect 240 13 tpu checksum incorrect

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