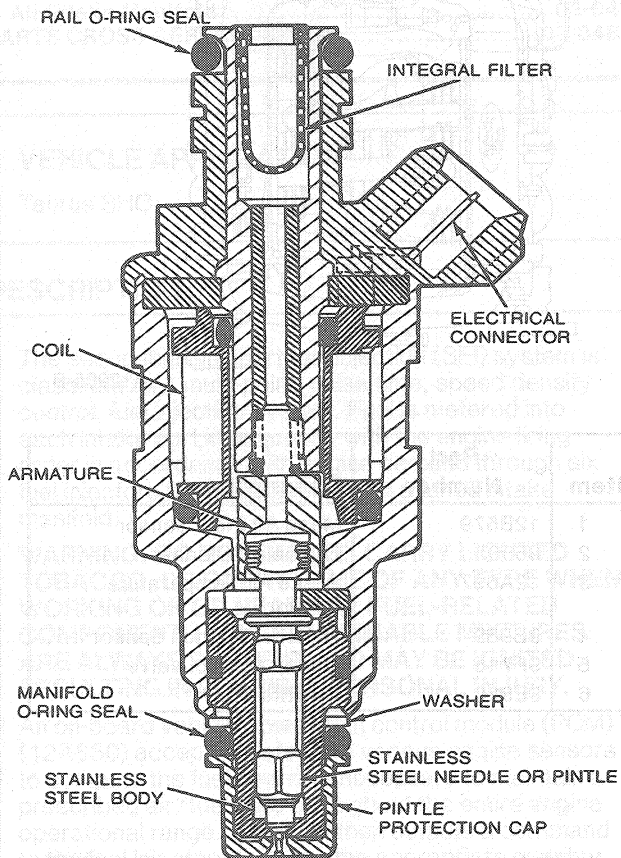


COMPONENTS

Fuel Injectors

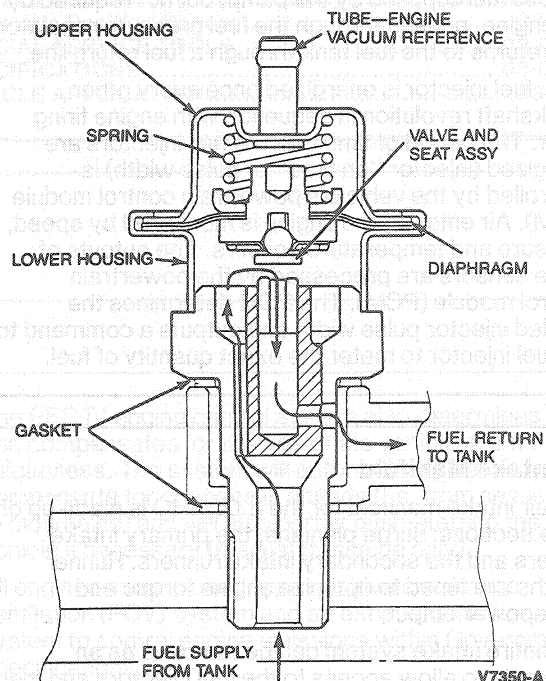
The fuel injectors are electro-mechanical devices which meter and atomize fuel delivered to the engine. The multiport fuel injection (MFI) fuel injectors are mounted in the lower intake manifold and positioned so that their tips are directing fuel just before the engine intake valves. The valve body consists of a solenoid actuated valve assembly. Therefore, fuel flow to the engine is regulated only by how long the solenoid is energized. An electrical signal from the powertrain control module (PCM) activates the solenoid, causing the pintle to move inward off the seat. This allows fuel to flow through the orifice. The pintle is contoured at the point where the fuel separates in order to atomize it.



V3902-D

Fuel Pressure Regulator

The fuel pressure regulator is attached to the fuel injection supply manifold downstream of the fuel injectors. It regulates the fuel pressure supplied to the fuel injectors. The fuel pressure regulator is a diaphragm-operated relief valve in which one side of the diaphragm senses fuel pressure and the other side is subjected to intake manifold vacuum. The nominal fuel pressure is established by a spring preload applied to the diaphragm. Balancing one side of the diaphragm with manifold pressure maintains a constant fuel pressure drop across the fuel injectors. Excess fuel is bypassed through the fuel pressure regulator and returned to the fuel tank.



V7350-A

Fuel Injection Pulse Dampener

The fuel injection pulse dampener (9F775) is attached to the fuel injection supply manifold upstream of the fuel injector to reduce fuel pressure pulsation.