

Fuel Injection Electric Fuel Pump Diagnostic Guide

Use these Diagnostic Charts to quickly and accurately determine the exact cause of electric fuel system malfunction. The fuel pump is only one of many possible factors that must be evaluated before the proper repairs can be performed.

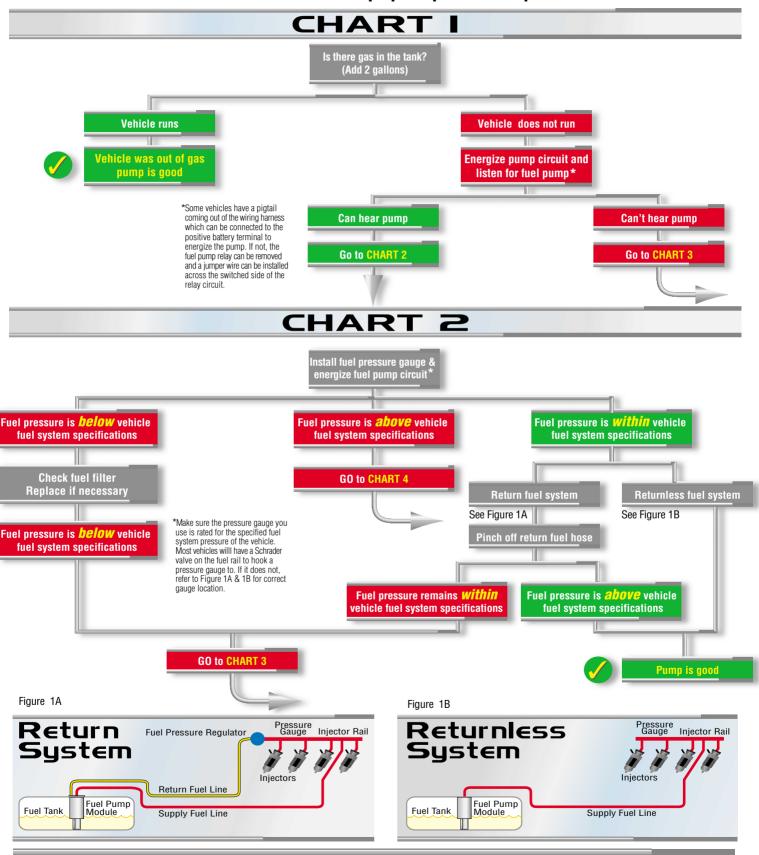


CHART 3 Perform voltage drop test' Voltage drop exceeds 1.5 volts Voltage drop less than 1.5 volts Repair faulty connection and Remove fuel pump from vehicle and carefully inspect all connections that could not be repeat voltage drop test reached during voltage drop test. ** *While performing the voltage drop test it is critical that the pump is still wired into the circuit. Failure to do this will make this test invalid. It is important to perform the voltage drop test on both **Bad connection** No bad connections the positive and negative sides of the circuit. Test points should be chosen to cover as much of the circuit as is possible to reach. (See Figure 2) Repair bad connection Replace fuel pump **Inspect for melted insulation on wiring close to connectors. Check for melted plastic or black soot where positive and negative terminals enter the connector. This evidence indicates and re-install pump a bad connector. Check for loose connections where positive or negative wires attach to pump hanger bracket assembly. Go to CHART 2 Figure 2 Voltage Drop Test Fuse (-) • The sum of the voltage drops of positive and negative side of the circuit should not exceed 1.5 volts. **Battery** Connector If it does. Check voltage drops across each connector, relay, fuse, Relay ground, and across the wiring for

CHART 4

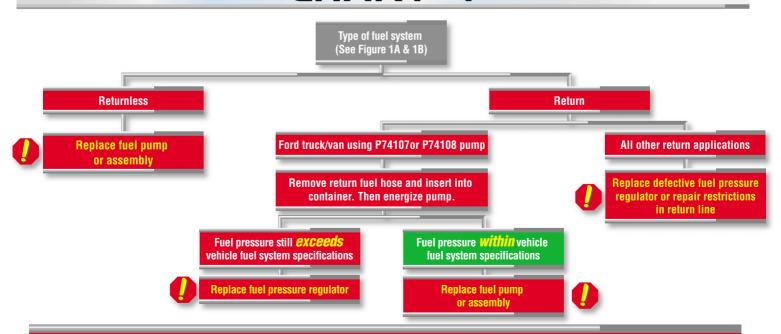
Voltmeter

(-)

Fuel Tank

(+)

Voltmeter



Caution: Gasoline is involved and vapors will settle in low areas, so work in a well ventilated space away from sparks or open flame such as a pilot light. Have a class B fire extinguisher close by. To eliminate the chance of fire or personal injury, the fuel system pressure must be relieved before servicing any fuel system component. Refer to the manufacturer's service manual for specific steps.



bad connection.

 Pump must be wired into circuit and energized during this test.