DTC 54
FUEL PUMP RELAY (LOW VOLTAGE)

1. IGNITION "OFF" FOR 10 SECONDS.
   • IGNITION "ON".
   • LISTEN FOR IN-TANK FUEL PUMP. PUMP SHOULD RUN AFTER IGNITION "ON." DOES IT?
     • NO
       • IGNITION "OFF." USING A FUSED JUMPER WIRE, CONNECT FUEL PUMP "TEST" CONNECTOR TO FIXED 12 VOLS. DOES PUMP OPERATE?
         • YES
           • CLEAR DTC.
           • START AND RUN ENGINE FOR 30 SECONDS OR UNTIL DTC 54 SETS. DOES DTC SET?
             • YES
               • BACK PROBE ECM TERMINAL "B2" WITH A TEST LIGHT TO GROUND.
               • IGNITION "OFF" FOR 10 SECONDS. NOTE LIGHT AFTER IGNITION "ON."
             • NO
               • DTC 54 IS INTERMITTENT. REFER TO "DIAGNOSTIC AIDS."

     • YES
       • DISCONNECT FUEL PUMP RELAY.
       • USING THE FUSED JUMPER WIRE, CONNECT CKT 120 TO 12 VOLS. DOES PUMP RUN?
       • NO
         • DTC 54 IS INTERMITTENT. REFER TO "DIAGNOSTIC AIDS."
       • YES
         • OPEN CKT 120, FAULTY IN-TANK PUMP OR FAULTY ECM.

2. IGNITION "OFF."
   • CONNECT FUEL PUMP RELAY.
   • PROBE CKT 440 WITH A TEST LIGHT TO GROUND.
   • TEST LIGHT "ON"?
     • YES
       • CONNECT TEST LIGHT BETWEEN CKTS 440 AND 450.
       • REPAIR OPEN IN CKT 440.
     • NO
       • FAULTY RELAY.
       • OPEN CKT 120, FAULTY IN-TANK PUMP OR FAULTY PUMP

   • TEST LIGHT "OFF"?
     • YES
       • FAULTY CONNECTION AT ECM OR FAULTY ECM.
     • NO
       • CONNECT TEST LIGHT BETWEEN HARNESS CKT 465 AND GROUND.
       • IGNITION "OFF" FOR 10 SECONDS. NOTE TEST LIGHT AFTER IGNITION "ON."

3. TEST LIGHT "ON" 2 SECONDS
   • FAULTY CONNECTION AT RELAY TERMINAL "D" OR FAULTY RELAY.
   • DISCONNECT FUEL PUMP RELAY. ENGINE SHOULD CONTINUE TO RUN. DOES IT?
     • YES
       • RECONNECT FUEL PUMP RELAY.
       • IGNITION "OFF."
       • PROBE FUEL PUMP "TEST" TERMINAL WITH A TEST LIGHT TO GROUND.
     • NO
       • FAULTY OIL PRESSURE SWITCH.

4. TEST LIGHT "OFF."
   • FUEL PUMP CIRCUIT OK.

"AFTER REPAIRS," REFER TO DTC CRITERIA AND CONFIRM DTC DOES NOT RESET.