

CHART A-5

FUEL PUMP RELAY CIRCUIT DIAGNOSIS
"S, T & M" SERIESFROM CHART A-3
FUEL PUMP DOES NOT RUN

- 1
- APPLY FUSED 12V TO FUEL PUMP TEST TERMINAL
 - LISTEN FOR IN TANK FUEL PUMP. DOES IT RUN?

YES

- REMOVE 12V FROM TEST TERMINAL
- IGNITION "OFF" FOR TEN SECONDS.
- IGNITION "ON". LISTEN FOR IN TANK FUEL PUMP. PUMP SHOULD RUN FOR 2 SECONDS AFTER IGNITION ON. DOES IT?

NO

NO

OPEN IN CKT 120 OR CKT 150 TO THE FUEL PUMP OR FAULTY PUMP.

- 2
- DISCONNECT PUMP RELAY.
 - IGNITION "ON" ENGINE STOPPED.
 - PROBE RELAY HARNESS-CONNECTOR TERMINAL CKT 440 WITH A TEST LIGHT TO GROUND.

YES

NO TROUBLE FOUND

LIGHT "ON"

CONNECT A TEST LIGHT BETWEEN HARNESS CONNECTOR TERMINAL CKTS 450 AND 440.

LIGHT "OFF"

REPAIR OPEN CKT 440.

LIGHT "ON"

- 3
- CONNECT TEST LIGHT BETWEEN TERMINAL CKT 465 AND GND.
 - IGNITION "OFF" FOR 10 SECONDS.
 - IGNITION "ON". TEST LIGHT SHOULD LIGHT FOR 2 SECONDS. DOES IT?

LIGHT "OFF"

REPAIR OPEN GROUND CKT 450.

YES

- 4
- FAULTY CONNECTION AT RELAY TERMINAL "A" OR FAULTY RELAY.
 - IF ORIGINAL SYMPTOM WAS "ENGINE CRANKS BUT WILL NOT RUN", CONTINUE TESTING OIL PRESSURE SWITCH.
 - ENGINE AT NORMAL OPERATING TEMPERATURE.
 - OIL PRESSURE NORMAL.
 - DISCONNECT FUEL PUMP RELAY. ENGINE SHOULD CONTINUE TO RUN. DOES IT?

NO

OPEN OR SHORT TO GROUND IN CKT 465 OR FAULTY ECM.

YES

- RECONNECT FUEL PUMP RELAY.
- IGNITION "OFF".
- PROBE FUEL PUMP TEST TERMINAL WITH A TEST LIGHT TO GROUND.

NO

OPEN IN CKT 440 OR 120 TO THE OIL PRESSURE SWITCH OR FAULTY OIL PRESSURE SWITCH

NO LIGHT

NO TROUBLE FOUND

LIGHT

FAULTY OIL PRESSURE SWITCH

CLEAR CODES AND CONFIRM "CLOSED LOOP" OPERATION AND NO "SERVICE ENGINE SOON" LIGHT.

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