

CHART A-9 COLD START VALVE CIRCUIT TEST 5.0L (VIN F) & 5.7L (VIN 8) "F" SERIES (PORT)

- 1
- IGNITION "OFF".
 - CONNECT FUEL PRESSURE GAGE.
 - DISCONNECT DISTRIBUTOR 4-WAY CONNECTOR.
 - ENGINE TEMPERATURE MUST BE BELOW 35°C (95°F).
 - TURN IGNITION "ON" FOR 2 SECONDS AND NOTE FUEL PRESSURE.
 - CRANK ENGINE FOR 2 SECONDS WHILE OBSERVING FUEL PRESSURE.
 - IF COLD START VALVE IS FUNCTIONING PROPERLY, THE FUEL PRESSURE SHOULD DROP MORE THAN (20kPa) (3psi).

OK

- ALLOW ENGINE TO WARM UP ABOVE 35°C.
- REPEAT TEST.
- PRESSURE SHOULD NOT DROP.

NO DROP

- COLD START CIRCUIT OK.

DROPS

- DISCONNECT COLD START SWITCH.
- REPEAT TEST.

NO DROP

- REPLACE COLD START SWITCH.

DROPS

- CHECK FOR SHORT TO GND. IN CKT 832. IF NOT SHORTED REPLACE COLD START VALVE.

REPEAT TEST ON CKT 832 (TAN WIRE).

LIGHT

- 2
- CONNECT OHMMETER BETWEEN 832 TERMINAL OF SWITCH AND GROUND.
 - CHECK RESISTANCE.

NO LIGHT

- DISCONNECT COLD START VALVE.
- PROBE CKT 806 WITH TEST LIGHT TO GROUND.
- CRANK ENGINE.

LIGHT

- CHECK FOR OPEN IN CKT 832 BETWEEN VALVE AND SWITCH.

NO LIGHT

- REPAIR OPEN CKT 806.

OPEN CIRCUIT

- REPAIR WIRE

NOT AN OPEN CIRCUIT

- CHECK VALVE CONNECTIONS, IF OK REPLACE COLD START VALVE.

- RESISTANCE GREATER THAN 200 OHMS.

- REPLACE COLD START SWITCH.

- RESISTANCE BETWEEN 20 AND 200 OHMS.

- BE SURE COOLANT TEMPERATURE IS BELOW 35°C. IF BELOW 35°C REPLACE COLD START SWITCH.

- LESS THAN 20 OHMS.

- REPLACE COLD START VALVE.

NOT OK

- DISCONNECT COLD START SWITCH CONNECTOR.
- PROBE CKT 806 TERMINAL (PPL WIRE) WITH A TEST LIGHT CONNECTED TO GROUND.
- OBSERVE LIGHT WHILE CRANKING.

LIGHT

- PROBE FUSE WITH A TEST LIGHT TO GROUND.
- OBSERVE WHILE CRANKING.

NO LIGHT

CHECK CRANK FUSE

FUSE OK

FUSE BLOWN

- PROBE CKT 806 WITH A TEST LIGHT CONNECTED TO 12V.

LIGHT

- REPAIR OPEN IN CKT 806, BETWEEN STARTER SOLENOID AND CRANK FUSE.

- REPAIR OPEN IN CKT 806 BETWEEN FUSE AND SWITCH. ALSO CHECK IP CONNECTOR TERMINAL R.

NO LIGHT

NO LIGHT

- CHECK RESISTANCE OF SWITCH OPPOSITE CKT 806 TERMINAL.
- SHOULD BE GREATER THAN 10 OHMS.

LIGHT

- CKT 806 SHORTED TO GROUND. REPAIR SHORT AND INSTALL NEW FUSE.

OK

- PROBLEM IS INTERMITTENT. CHECK HARNESS.

NOT OK

- REPLACE COLD START SWITCH.

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