

(EGR) SYSTEM FAILURE 5.7L "Y" SERIES Code 32 means that the EGR diagnostic switch was closed during start-up or that

the switch was not detected closed under the following conditions.

• Coolant temperature greater than 80°C (176°F).

- EGR duty cycle commanded by the ECM is greater than 48%.
 TPS less than wide open throttle (WOT), but not at idle.
- Codes 21,22,33,34 not present.
- All conditions above must be met for about 4 minutes.

If the switch is detected closed during start-up, or if the switch is detected open when the above conditions are met, the "SERVICE ENGINE SOON" light will remain

"ON" unless the switch changes state.

The EGR vacuum control uses an ECM controlled solenoid valve signal. The ECM will turn the EGR "ON" and "OFF" (Duty Cycle) by grounding CKT 435. The duty cycle is calculated by the ECM based on information from the coolant and mass air flow sensor and engine RPM's. There should be (NO EGR) when in Park or Neutral, TPS

input below a specified value or TPS indicating Wide Open Throttle (WOT).

With the ignition "ON", engine stopped, the EGR solenoid is de-energized, and by

With the ignition "ON", engine stopped, the EGR solenoid is de-energized, and by grounding the diagnostic terminal the solenoid is energized.

s test will determine if the ECM set the 5. This test will determine if the electrical

- . This test will determine if the ECM set the code due to CKT 935 being grounded on start up. If the code does not repeat but the customer complained of a Service Engine Soon light after start up then this circuit should be checked carefully for an
 - should be checked carefully for an intermittent grounded condition.

 If Code 32 repeated, then disconnect the EGR temperature switch and try to reset the code. This will determine if the ECM, wiring or temperature switch is at fault.

This test will check for a possible open in CKT

935. The ECM supplies 9-12 volts to CKT 935. By grounding the diagnostic terminal, the EGR solenoid should close and allow vacuum to be applied and the vacuum should hold.

the fully open position.

8. Due to this engine using a negative back pressure valve, the valve should close when the engine is cranked over.

connector or solenoid are at fault.

to bleed off through the vent.

control part of the system is at fault or if the

By plugging the EGR valve side and ungrounding the diagnostic terminal, the

solenoid valve should open and allow vacuum

With the engine not running and vacuum is

applied to the valve, the valve should move to

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