

# TROUBLE CODE 55 FAULTY OXYGEN SENSOR OR ECM

Check for corrosion at ECM edgeboard connectors and terms. If present, check for coolant sensor, windshield or heater core leaks. Repair leak, clean connector terms. and replace ECM. Also, check for 4 term. EST harness being too close to electrical signals, such as spark plug wires, distributor housing, generator, etc.

• DISCONNECT TEST TERMINAL 6.  
• DISCONNECT OXYGEN SENSOR AND NOTE CHECK ENGINE LIGHT WITH ENGINE IDLING FOR LESS THAN ONE MINUTE.

LIGHT  
ON  
?

YES

• IGNITION ON, ENGINE STOPPED.  
• CHECK VOLTAGE FROM ECM TERMINAL 21 TO 22.

OVER  
6 VOLTS

UNDER  
4 VOLTS

4 TO 6  
VOLTS

• TURN IGN. "OFF."  
• DISCONNECT NUMBERED CONNECTOR FROM ECM.  
• IGN. "ON," CHECK VOLTAGE FROM CONNECTOR TERM. "21" TO "22."

CHECK FOR GROUND IN CIRCUIT TO ECM TERMINAL 21 (INCLUDES SHORTED OR GROUNDED OR TPS VACUUM SENSOR). IF NOT GROUNDED OR SHORTED, REPLACE ECM.

• DISCONNECT OXYGEN SENSOR.  
• IGNITION ON, ENGINE STOPPED.  
• CHECK VOLTAGE FROM CONNECTOR OF PURPLE WIRE DISCONNECTED FROM OXYGEN SENSOR.

ANY  
VOLTAGE  
?

NO → REPLACE ECM

CHECK FOR SHORT IN B+ WIRE TO TERM. 21.

OVER  
1 VOLT  
?

NO

CHECK FOR INTERMITTENT GROUND IN CIRCUIT TO ECM TERMINAL 21 (INCLUDES TPS, AND VACUUM SENSORS). CLEAR CODES AND CHECK FOR RECURRENCE OF CODE 55. IF IT REAPPEARS, IT COULD BE FAULTY OXYGEN SENSOR.

• TURN OFF IGN., DISCONNECT NUMBERED ECM CONNECTOR AND THEN TURN IGN. ON.  
• CHECK VOLTAGE FROM ECM, HARNESS CONNECTOR TERM. 9 TO GROUND.

OVER  
1 VOLT  
?

CHECK FOR SHORT FROM WIRE TO ECM TERM. 9 TO BAT.

CHECK FOR OPEN CIRCUIT FROM TERM. 14 TO GROUND. IF NOT OPEN, REPLACE ECM.

NO